

MASTERMINE™ SOFTWARE, INC.

Business Analysis and Reporting for GoldMine®

MasterMine® for GoldMine® v7.0

User's Guide

BUSINESS ANALYSIS AND REPORTING FOR GOLDMINE®

MasterMine® for GoldMine® User's Guide

For Distribution with MasterMine Version 7.0

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FOREWORD

This manual is designed to give you a quick introduction to using MasterMine for GoldMine[®]. MasterMine itself is designed to be a user-friendly, low-skill entryway to your GoldMine data, so this manual is meant to assist both novice Excel users who have no desire to develop “deep” skills, as well as those who wish to become true experts. The basic functionality everyone must learn to make use of MasterMine should not take more than an hour.

For those who wish to dig deeper, this manual goes on to discuss important and useful concepts for GoldMine managers such as data mining, GoldMine database structures, and Microsoft Excel spreadsheets and Pivot Tables. We hope our explanations are clear and understandable enough to make MasterMine use easy, productive and fun, even for the most inexperienced “Data Miner”.

However, this manual by itself cannot provide a thorough knowledge of any of these important management skills. We recommend that users seek further information in a variety of resources, including online training, books on data mining itself, the GoldMine Reference Manual, and the many off-the-shelf books on Microsoft Excel. The latter are often inadequate with regard to information about Pivot Tables, but you can supplement your knowledge by using Excel’s built-in Help screens.

Latest Release

When significant additions or changes to this manual are made, the latest release will be posted for free download at MasterMine’s website: www.mastermine.net.

Likewise, current upgrades, product fixes and enhancements can be retrieved at any time from our website.

Introduction

Is MasterMine Right for You?

What MasterMine can do for you

MasterMine data analysis and reporting tools are for users and managers of enterprises using GoldMine as their Customer Relationship Management (CRM) system. Your GoldMine data is a “mother lode” of up-to-the-minute information about your business, its internal processes and its future prospects. MasterMine tools allow you to easily and flexibly extract, organize and analyze that information, to vastly increase the value your company gets out of GoldMine.

Following is a brief explanation of some ways you can use MasterMine to help master every aspect of your business. Any organization that tracks its interactions with a large number of outside contacts – in short, virtually any organization that uses GoldMine – can benefit by analyzing the flow of activity in relation to those contacts with MasterMine.

Like GoldMine itself, much of the functionality in MasterMine anticipates uses in a sales environment. But remember that you can use MasterMine to create meaningful analyses for every part of your business that GoldMine® touches.

Who should use MasterMine?

Every manager: MasterMine software is designed for anyone managing GoldMine users. Another way to put it is: “Who needs reports?” Answer: Anyone who is responsible for the quality and quantity of workflows that are reflected in GoldMine data should have a licensed copy of MasterMine available.

Anyone responsible for producing measured output: GoldMine is a workflow management tool, and that makes MasterMine a tool for anyone using GoldMine to increase the efficiency of their daily activity. For example, sales representatives responsible for making a certain number of calls or appointments can record their results in GoldMine, and can measure their success against standards using MasterMine. Managers with MasterMine can measure and reward or punish; ordinary users can do better by self-managing to expectations, because they know how they are doing at every step of the way.

Anyone needing questions answered: Is MasterMine only for doing sophisticated analysis? Hardly. Anyone who has asked for information from GoldMine and waited hours, days or weeks while someone else builds a report NEEDS MasterMine to get their own quick answer. Yes, sophisticated reports are possible, but they are not the only reason to use MasterMine. The person who asks questions knows what he or she needs for an answer – and often this requires deeper knowledge of one’s own business that only the questioner has.

Knowledge Requirements

This manual presumes that MasterMine users have at least the first level of knowledge described below. Most GoldMine site managers, and all GoldMine Solutions Partners, should have this level of knowledge already.

MasterMine Software, Inc. provides training to achieve any desired level of user competence. Some GoldMine Solutions Partners offer training for MasterMine data mining techniques as well.

Beginning MasterMine Users know the following:

- Comfortable with GoldMine usage.
- Know the names and functions of all key fields on the GoldMine contact screen.
- Familiar with lookups and customized codes for their business.
- Know or can learn basic Microsoft Excel functionality (mouse functions, manipulating data, saving and retrieving spreadsheets).

...and can do the following with MasterMine:

- Use pre-formatted MasterMine reports to dynamically summarize and analyze sales, calling, faxing, scheduling, referral and custom profile information.
- Drill down to and correct data “exceptions” that may indicate serious business process or training issues, or simply data entry errors.
- Manage individuals and groups by performance criteria.
- Manage and improve all GoldMine-based business processes.

Intermediate MasterMine Users have the following additional knowledge:

- Familiar with standard Excel Pivot Table® functionality and MasterMine's enhancements.
- Have detailed knowledge of GoldMine's underlying database structures.

...and can do the following with MasterMine:

- Replace most static management reports with a standardized set of dynamic tables reflecting key company processes, updatable at the click of a mouse.
- Add any GoldMine field to existing MasterMine templates.
- Easily format tables for formal presentation to colleagues and customers.
- Develop new spreadsheets from all MasterMine templates, making full use of customized fields and data items.
- Graphically present data using Excel's full native charting functionality.

Advanced MasterMine Users have the following additional knowledge:

- Thorough knowledge of Excel Pivot Table® and other Excel® functions.
- Knowledge of MS Query® functionality.
- Ability to use SQL functions for refined querying in MS Query.

...and can do the following with MasterMine:

- Present and analyze any conceivable data relationship by modifying template queries or constructing original PivotTables from GoldMine data.
- Integrate data from other applications, such as accounting, order processing, production or customer support software.
- Optimize queries to enable faster refreshing of large source data files.

New features in Version 5.0 & 5.1

Version 5 includes a multitude of small feature enhancements and bug fixes, but some top features are these:

1. Combined Pending/History reporting

The usual activity-level reporting, but combines pending and history into a single report, even allowing you to limit a report to calls, appointments, etc. or any combination.

2. Primary E-mail address as a common field (SQL only)

The e-mail address for main contact appears in the field list as a C1 field, the same as any other field in the Contact1 (main account) table.

3. Optional MMUpdater Add-on

MMUpdater allows users to make changes in Excel and “push” these changes to GoldMine in a way that is synch-aware and conforms to GoldMine data access rules.

4. Details Plus® and QuoteWerks® Integration

Automatically uses DetailsPlus field definitions when you select “Details/Profiles” on the main report screen. You get all fields from GoldMine “Profiles” available, and the ability to display and analyze them as dates or values, just like in DetailsPlus. Users of QuoteWerks version 4.0 (SQL version only!) can now access QuoteWerks-only OR QuoteWerks data linked to GoldMine account data. For example, show all open quotes for records with a Key2 value of “Active” in GoldMine.

5. Add reports to GM Taskbar for 1-button launch

From inside any report, click the toolbar icon to “deploy” the report to any GoldMine user for easy, 1-button launch. Even allows you to conveniently set “automatic refresh” and to disable MSQuery or drilldown.

6. New Templates for Activity Analysis and Administration

A dozen new templates, including the new “Activity Analysis” toolkit, which presents much-requested reports on “Last Completed Activity”, “Last Call”, etc.

7. Screen HTML from notes (SQL only)

For SQL users whose notes in Pending or History include HTML coding, only text is displayed.

8. Formatted drilldown data

Change field names or field items in your pivot table (as easy as typing over the original) so that changes follow through to drilldown sheets.

9. New "Search-Grouping" options

In addition to grouping on “any” and “all” of several elements contained in a row field’s items, new options include grouping those that contain “none” of the elements listed, and allows the use of wild cards. Greatly improves onscreen grouping ability, and therefore improves data segmentation and formatting.

10. Management of Background Query in Excel

New “Display box” on MasterMine toolbar in Excel allows user to see underlying query, change connection string elements, and quickly investigate data source info.

New features in Version 6.0

Version 6 includes a long list of enhancements, which can be viewed in detail on our website, www.mastermine.net. Here are the top 7:

1. Simpler "Report Builder" dialog

Users will find it even easier to go from "I need a report that does x..." to actually having the report in seconds. A simpler, cleaner dialog makes choices clear and easy.

2. Template finder and many more templates

Find needed templates from more than 125 pre-designed reports by keyword, with full description and context provided in advance. Each template is the starting point for thousands of immediately available variations.

3. Save new templates, launch "recently used" reports

After choosing a template and making field selections, you may save settings under your own user-defined template name -- and recall it at will for more variations later. Also, easily launch recently used reports under the File menu.

4. Office 2007 and Windows Vista Compatibility

MasterMine handles new workbook-type variations under Office 2007, and takes advantage of new features in Office 2007 to make reports even more flexible and back-end query management easier.

5. Archive pages

Click a button to copy the current page out to a “static” archive workbook, or to another page within the same workbook.

6. Ease-of-use features in Excel

Many functions and features requested by our more than-5000 users worldwide, including: a Search dialog, new grouping and "add-to-group" dialogs, set filter settings across multiple reports in a workbook, clean up unused field buttons, delete drilldown sheets and Logsheets from MMUpdater, save the SQL password automatically in workbooks, and much more.

7. Auto-schedule report printing

Submit existing reports to Windows Scheduler to run automatically every day, week, month.

8. MMUpdater enhancements

Delete activity or profile records on a mass basis, update Lookups, notes (blob) fields, and update Linked Documents. MMUpdater now includes virtually every table in GoldMine that users normally access.

Other ease-of-use improvements.

New features in Version 7.0

Version 7 enhancements focus on usability in managing and sharing existing reports, and on making MasterMine's report re-design and "slice-and-dice" functions in Excel more accessible and user-friendly.

1. Report Management Interface

Launch to directory dialog showing paths to all MasterMine reports previously used. Easily navigate to recently used reports, create or open.

2. Excel Ribbons (Excel 2007 and higher)

Functions in Excel to facilitate analysis, reporting, and data updating now reside in Ribbons, organized functionally. Many new functions make it easier than ever to modify existing reports to do new tasks rather than require building new reports.

3. Improved communication with GoldMine

Using recent API calls, interruptions and slow-downs formerly caused by DDE are eliminated, providing instead a faster and more reliable drillthroughs, group building, and updating to GoldMine.

4. New time-saving functions in Excel

Add fields to existing reports, delete un-needed ones, re-arrange fields for drilldown, are a few examples. See the chapter on "Excel Ribbons" below.

5. New Templates

New, user-friendly templates make use of user-interrogation functions to broaden the scope and specificity of new reports.

Note: Interim releases of MasterMine since December 2011 have included a large number of bug fixes and minor enhancements continue to be enumerated in the “Release Notes.txt” file included in the installer, installed to the MasterMine application folder.

Getting Help

Technical Support

Free support for installation and set-up issues is available every business day, between 8:30 and 5:00pm CST at (877) 877-7212. This support does not include normal use training, customization or report development support. To report bugs or to inquire about functionality, please send e-mail to Support@mastermine.net or visit the Knowledge Base on our website at www.mastermine.net.

Report Writing

MasterMine Software’s services include online report development, which can give you the most immediate possible results. For the most efficient start, have customized templates or reports set up for you by your GoldMine Solutions Partner or by MasterMine report engineers. See our website or contact your local GoldMine Solutions Partner for details.

Training

Set-up and use of MasterMine to generate basic reports requires no special training. However, advanced reporting and integration of non-GoldMine data can be somewhat trickier.

Some GoldMine Solutions Partners provide local classes or one-on-one training in MasterMine. Further training is available directly from MasterMine Software, Inc., including online one-on-one courses, or classroom training for larger groups,. See our website for details.

Installation

Demo

The demo allows you to experience “dynamic reporting and analysis” on your own data, before you purchase. The demo works for a limited time, and is **the same software** as the actual licensed product. To unlock the remaining toolkits and workbooks, you must purchase a MasterMine license and enter it using the “register now” button on the initial welcome screen.

You can install and register as many MasterMine installations as you need, all using the same demo or setup file. On most systems, installation should be very automatic and won't take more than five minutes. See “Setup Procedure” on page 24.

License Options

Each MasterMine software license is associated with exactly one GoldMine[®] master license, designated during the setup procedure. If you have more than one GoldMine[®] master license, determine before you begin which license will be associated with this installation of MasterMine software and have the license number(s) ready when you call to register.

MasterMine licensing is structured several ways, to allow you the most advantageous and cost-effective distribution of reporting and data management capabilities for your company.

Named-User “Full” License: You may choose to license only a few MasterMine users, independent of your GoldMine user count. Full report creation and opening/using capabilities are available to named-user licensees.

Named-User “Share” Licenses: At a reduced price, additional users who open and use reports provided by “Full” users can still take advantage of much of MasterMine's dynamism and GoldMine-integration functionality. Share users are able to do everything a full user can do, within access limits set by the creator of each report.

For example, if you have a 15-user GoldMine license but only 5 users (docked and undocked) need to make reports, while most users simply open and view “standard” reports, you may purchase a 10-user “Share” license for the majority of users.

Site License: Users of MasterMine versions earlier than V6.0 could purchase a MasterMine license that matched their GoldMine seat count, while saving on the per-seat cost. To serve these “legacy” customers, MasterMine site license seats may be purchased for an existing site license, but new site licenses are no longer sold. The site license option gives full MasterMine functionality to all users, although access can be limited at installation if desired. As a result of the requirement to match GoldMine seat counts, as the GoldMine seat count increases, MasterMine will cease to function until additional MasterMine site license seats are installed to match the GoldMine seat count.

“Share” Site License: For ease of implementation, MasterMine offers a centrally administered “Share” Site License, which allows all users in GoldMine to open, manipulate, save, and “SaveAs” existing reports (subject to limitations you administer). For a single price, all GoldMine users who have MasterMine installed and accessible could launch existing reports defined and saved for them by “Full” users.

Required Software

MasterMine requires MS Office® 2003 or higher, but it works best with newer versions of Office. In general, it is best to simply “Install all components” of MSOffice, as space considerations are rarely significant on newer machines.

MasterMine works with GoldMine 5.7 or higher, Standard or Corporate Edition, and works with SQL or dBase GoldMine database files. Some features that rely upon Microsoft SQL may not be available to “standard” (dBase) users.

To begin, ensure that your MS Office installation includes MS Excel® and MS Query®.

For Office 2003 or higher: Select “Custom Installation” when you install Office, or re-run the Office installer CD and select “Add or Remove Features”. Find Microsoft Query under “Office Tools” and select “Run from My Computer” in the setup. MSQuery will optionally self-install the first time it is used.

We recommend that you install the most current service release for Microsoft Office soon after it is released. You can obtain it from the Microsoft support website at <http://support.Microsoft.com> at no cost.

Required Hardware

MasterMine software itself occupies very little space, either on your hard drive or in memory during operation, especially when compared with GoldMine, Excel and Windows, all of which must run simultaneously for MasterMine to function. These “components” can operate together comfortably in about 512MB of RAM.

Your real hardware requirements depend directly upon the size of the data files you will be analyzing. To work with relatively small GoldMine files, you should have, at a minimum, a Pentium processor with 512MB of RAM. Larger data files process much more conveniently with a faster processor and more RAM. Since Pivot Tables operate by holding and manipulating large amounts of record-level data in memory, it follows that the more memory available, the better.

To estimate memory requirements, assume you will need roughly .25 to .75KB per record and multiply by the number of records in your largest database file, probably ContHist. For example, a ContHist file with 100,000 records requires 80MB plus the roughly 48MB needed for the program files involved, totaling roughly 128MB of RAM.

How MasterMine Works

The MasterMine analysis engine loads your current data into MS Excel Pivot Tables to create dynamic overviews of all GoldMine® data in every possible useful combination. Based upon the internal logic of GoldMine and your customized setup, MasterMine formats the data and renames fields per your local labels in GoldMine.

Managers who have used Pivot Tables in the past know that they are very easy and powerful to use, but are notoriously difficult to set up. MasterMine handles the hard part, so you can reap the benefits. The features contained in the MasterMine Toolbar, in-report Group-Building functions, Drilldown to GoldMine, and GoldMine Group Creation all uniquely integrate the power of Pivot Table reports with GoldMine to seamlessly enhance your GoldMine management capabilities.

Security

MasterMine has read-only access to GoldMine data (except ContGroups), so there is no danger of directly changing underlying GoldMine data. Access to GoldMine itself is through the usual log-on and other security measures, although MasterMine offers a powerful Drilldown feature that expedites the process of finding individual target records. No MasterMine user can directly affect GoldMine data that is not otherwise accessible to that user through GoldMine's security.

However, because MasterMine renders powerful overviews of your entire business, including individual and group performance data, you may wish to restrict the use of some MasterMine toolkits to the management level and those who have "master" rights of access in GoldMine itself.

Certain capabilities can be denied selected users simply by removing them or by purchasing appropriate licenses: For instance, the ability to create new reports can be removed altogether by appropriate (“Share”) licensing OR by manually removing the “Create MasterMine Report” line item from the user’s “User.ini” file in the GoldMine application folder. Users with “Share” licenses can be restricted to only those reports created for them by “full-license” users. They retain the ability to work with flexible pivot capabilities, but cannot change which fields appear in their reports at the query level.

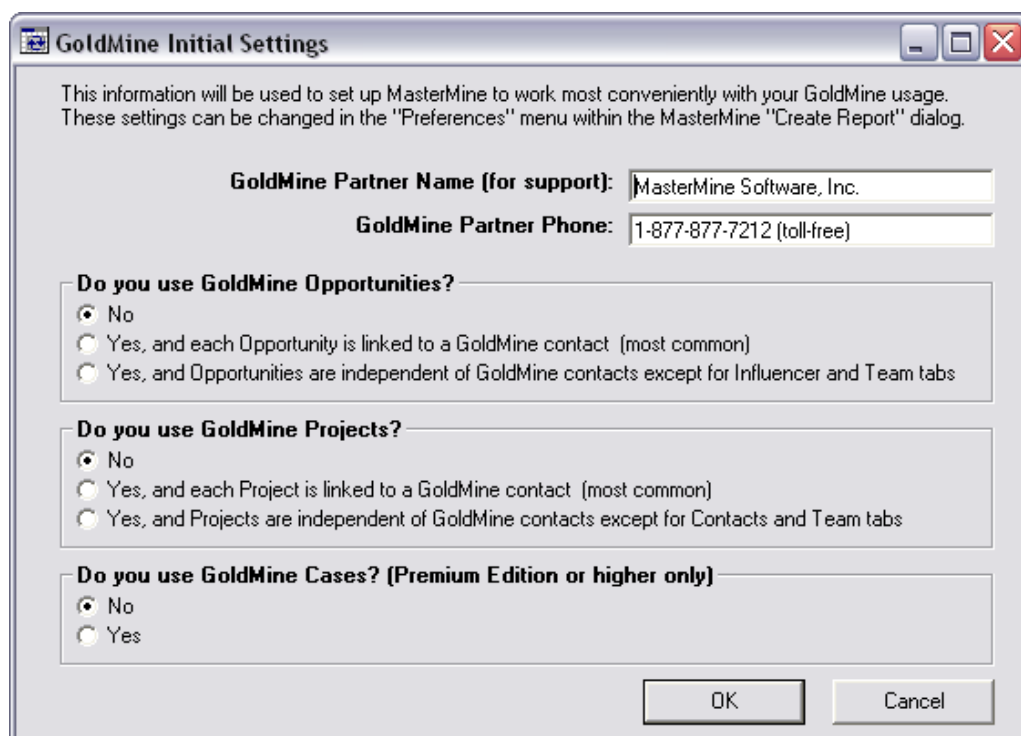
Also, consider using Excel’s native password protection for sensitive reports. While all MasterMine spreadsheets are shareable by default, Excel documents can be password-protected under “SaveTo” to restrict users from any access or to “read-only”.

Finally, MasterMine provides convenient ways to restrict at the report level what capabilities are available to users by way of data refreshing, query modification and drilldown for detail.

Setup Procedure

Obtain the install file from the MasterMine website (www.mastermine.net) or from your local GoldMine partner/reseller. This install file is the same for demo or live versions of MasterMine. Entering the license number makes your demo “live”.

1. In order to install MasterMine, **you must have GoldMine running** on the workstation being set up. Log into GoldMine with the username and password of the person who will be using MasterMine.
2. If Excel is open on the machine, close it. You may want to use Windows Task Manager to ensure that all Excel processes are closed.
3. Run the setup file, “MM6Setup.exe” from the distribution medium, or copy it onto your desktop or into a suitably named folder on your system and run it from there by double-clicking on the icon.
4. **Welcome screen:** Click “Next>”.
5. **License Agreement:** If you accept, click “I accept the terms in the license agreement”, then hit “Next>”.
6. **Readme Information:** Read about support and report writing options, then click “Next>”.
7. **Choose Destination Location:** Specify your preferred destination directory for MasterMine’s program files and Click “Next>”.
8. **Ready to Install:** Click “”Install”
9. **InstallShield Wizard Completed:** Click “Finish”. After a brief pause, you should see a dialog that looks like this:



10. **Enter GoldMine Partner Information:** If you are a GoldMine partner or you use one as your primary support for GoldMine, enter their name and phone number, then click “OK”. This information will appear for easy reference in MasterMine on the opening “splash” screen and under “Help”, “About MasterMine”.

11. **Indicate whether components of GoldMine are used:** At setup or by preference, parts of GoldMine not being used, such as Opportunities, Projects or Service can be excluded from the MasterMine dialog.

MasterMine goes on to complete installation of components. A link is added to your GoldMine View menu for launching MasterMine. This link will not be visible until the same user closes and re-opens GoldMine.

MasterMine installs this user manual in your local program folder for easy access. Call it up anytime using Start | Programs | MasterMine for GoldMine. You may also launch it from the Help menus of the Launch dialog and the “Create New Report” dialog or from the “MasterMine” ribbon in Excel.

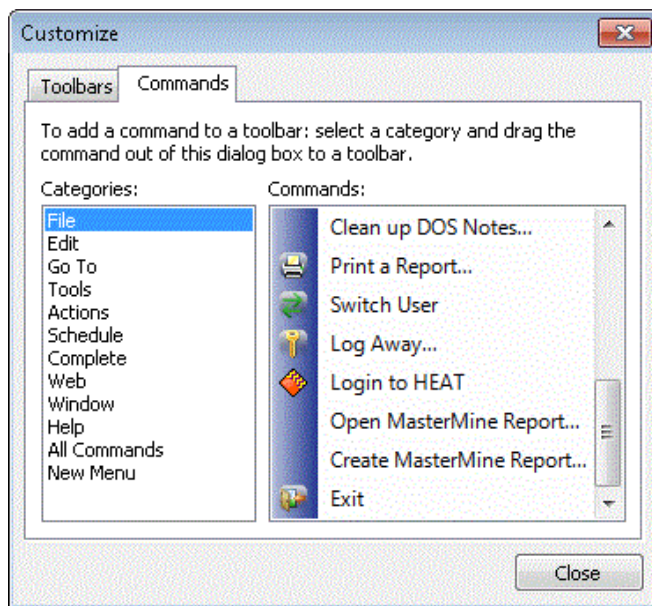
Click OK to proceed.

Set up launch inside GoldMine

A MasterMine launch item is automatically added to the “Goto” or “View” menu in GoldMine (PE and higher) and to the GoldMine taskbar. The taskbar item may not be

visible until the *next* time you log into GoldMine. Log out of GoldMine and back in if you don't see the item on the taskbar already.

For maximum convenience, or if you prefer not to use the GoldMine taskbar at all, you



may wish to **add this item to your GoldMine menu** to the right of "Help".

To accomplish this, right-click on the menu bar in the empty space to the right of "Help" and choose "Customize Menu". Click the "Commands" tab and scroll down on the right side to "Launch MasterMine". Click and drag this text up to the immediate right of the word "Help" in the menu bar. Now right-click on the new menu button that has been created and adjust the menu item settings to your preferences.

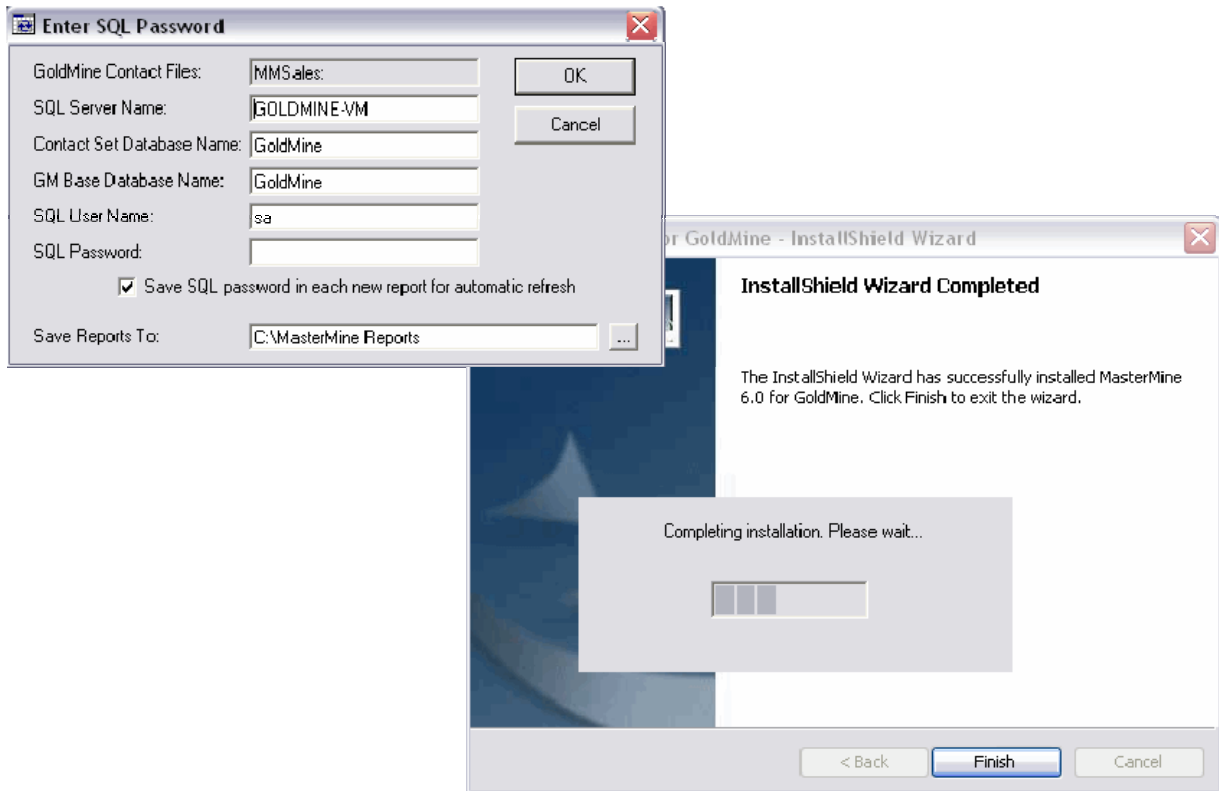
Troubleshooting Installation

If you encounter any difficulties, your first resort, after this document, is MasterMine's online troubleshooting page and online Knowledge Base, under "support" at www.mastermine.net. Secondly, you may get help by calling the contact number in the title page of this manual.

Setting up for SQL Installations

MasterMine includes an automatic function that sets up your system to use SQL databases. For GoldMine Version 6.7 and below, this function requires that the current Windows user have administrative access to the Borland Database Engine (BDE) folder. If this setup does not finish successfully, you can manually set up access to your SQL database by updating the parameters on the GMSQL tab of MMINI.xls., found in the "Support" folder within the "MasterMine" folder. **Note that you MUST obtain a working username/password combination for the SQL database from your system administrator.**

If your GoldMine installation uses MS SQL, the first time you run MasterMine you will see this dialog:



Enter a working SQL username and password. High-security environments may require the use of a SQL username and password that have read-only capabilities in SQL. For further security, uncheck the box for “Save SQL password in each new report for automatic refresh.” Unchecking this preference causes MasterMine to ask the user for a working SQL password every time the person refreshes a report or uses MSQuery.

If you have multiple SQL GoldMine databases, we recommend that you insert additional rows by hand into the GMSQL worksheet of the MMINI.xls file to accommodate each database’s SQL parameters. This eliminates the need to re-enter SQL parameters each time you access a different GoldMine database from inside GoldMine.

ServerName, DBName, UserName, Password and BDEName should be well known to the SQL GoldMine administrator. These settings are easily obtained using the Borland BDEAdministrator. In GoldMine 5.x or above, go to the Tools menu and select “BDE Administrator...” In the left column, find the BDE alias that matches your current GoldMine contact set (as named in the GoldMine “Open Database” dialog) and click on it once. The parameters you need will be available on the right side of the screen.

SaveTo – Indicates the default storage location of MasterMine reports generated for SQL contact sets.

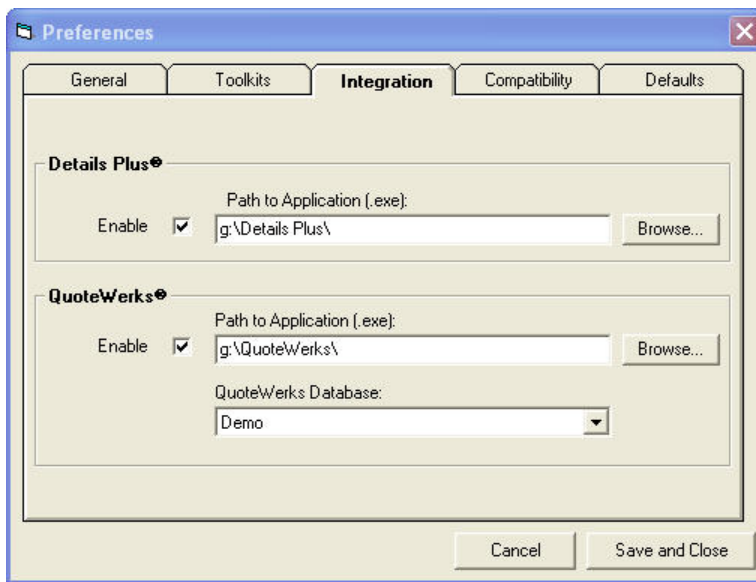
Integration with GoldMine Add-on Products

MasterMine reporting and analysis extends your ability to work with some of the more popular GoldMine add-on products. If your GoldMine installation includes any of the products listed below, you can integrate them by entering path information in Preferences.

Integrating Details Plus™

By Solica Consulting (www.solica.com)

DetailsPlus is a very popular add-on for GoldMine, greatly extending the capability of one-to-many, user-defined “Profiles” on GoldMine’s Details tab. Native GoldMine



makes ten text-type fields, plus one notes field, available in a Profile. DetailsPlus makes available all 14 fields plus two notes fields in the ContSupp table. Most importantly, each field can be defined as a character, numeric, or date-type field, with full data entry validation, on a user-configurable screen layout.

MasterMine reads this profile configuration so that DetailsPlus fields are formatted automatically using the proper field types. This allows you to take advantage of MasterMine’s sophisticated numeric and date grouping and analysis capabilities, correlating DetailsPlus profile records with main

account information.

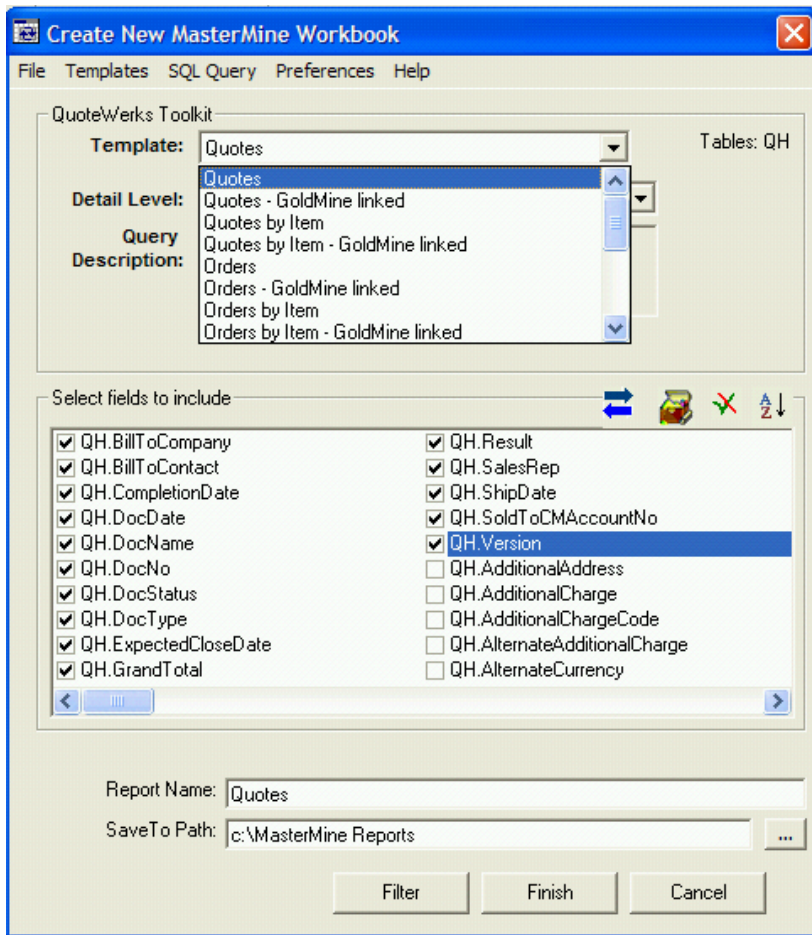
To set up the integration, launch the “Preferences” menu in MasterMine’s “Create New Analysis Workbook” dialog. Click on the “Integration” tab. Check the box to “Enable DetailsPlus”, then browse to or enter the path to the DetailsPlus application. Typically, this is a folder named something like: C:\Program Files\Solica\DetailsPlus containing the file DetailsPlus.ini.

Once this integration is set up, MasterMine presents DetailsPlus-defined profiles in the “Profile Type” window, and Details Plus fields in the field list box as though they were native to GoldMine.

Integrating QuoteWerks®

Quote management software by Aspire Technologies (www.quotewerks.com)

QuoteWerks is a popular stand-alone or GoldMine-integrated quoting and order processing application. QuoteWerks enables companies to handle much more sophisticated quoting, forecasting and order processing models than native GoldMine can support.



MasterMine reads QuoteWerks (v4.0 or higher SQL only) document data, allowing QuoteWerks users to perform simple or sophisticated analysis of any QuoteWerks data – even in conjunction with linked GoldMine account data.

To integrate QuoteWerks, launch the “Preferences” menu in MasterMine’s “Create New Analysis Workbook” dialog. Click on the “Integration” tab. In the QuoteWerks section, check the box to “Enable”, then browse to or enter the path to the QuoteWerks application. Typically, this is a folder named something like: C:\Program Files\QuoteWerks. Next, in the drop-down box below, select the name of the QuoteWerks database in your SQL server. To report through MasterMine, QuoteWerks must be defined in the same server as GoldMine, and opened using a username and password that accesses both.

To create reports based on QuoteWerks data, select the “Templates” menu dropdown and click “QuoteWerks Toolkit”. In the resulting dropdown list you will find a large selection of reports on Quotes, Orders, and Invoices – each of which is configurable to virtually anything you

want to report on in QuoteWerks. Each report has a version that shows either Document- or Item-level analysis, and each can be created optionally including linked GoldMine data.

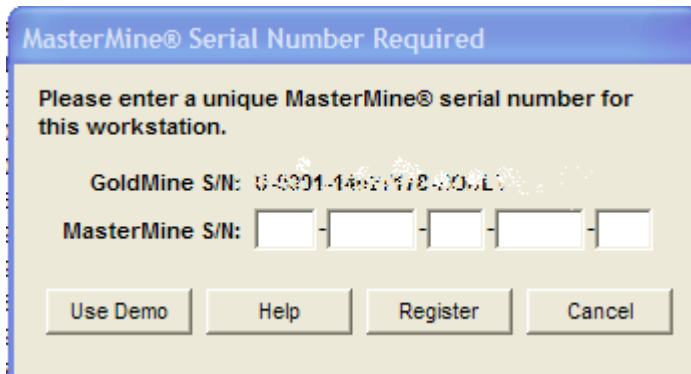
Licensing Workstations

The first time you run MasterMine, and any time you run it in demo mode, the software gives you the option of entering a valid license for it. Obtain a license from MasterMine directly or from your GoldMine Solutions Partner.

A valid MasterMine license functions ONLY with the GoldMine installation for which it was created. If GoldMine licensing changes, and this requires a change in the GoldMine master serial number, a new MasterMine license must be obtained from MasterMine Software, Inc. (website: www.mastermine.net).

Click “License Now”, read the instructions, and click “Continue” to launch the licensing dialog.

Check to make sure the GoldMine serial number displayed is the correct one for the MasterMine license you are about to enter. If so, enter the numbers precisely as they are given on your license certificate or as provided by your GoldMine administrator. When finished click the “Register” button.



If you have a MasterMine Site License, the final box of the Register dialog will contain “SL”. If you have a named-user license, your license number will be sequentially assigned to users. Therefore, if you have 5-user MasterMine license, each successive user will enter their license, entering “01”, “02” or “03” etc. into the last box, so that there is no overlap between users. If a user attempts to license MasterMine using a sequence number that was already assigned, the dialog will respond that the license number is already in use, and

that a unique number should be entered. The computer will store a “??” in the final box until a valid, unused license number is substituted.

Convenience: If your MasterMine license number is in your copy/paste buffer, you can enter it all at once by right-clicking on the first box and clicking “paste”.

Shortcuts for multiple MasterMine installations

1. Installing on Multiple Machines

You can expedite the process of installing MasterMine on a number of machines with the same non-standard INI parameters. Do this if:

1. you have a SQL installation with multiple MasterMine users, OR
2. you are a GoldMine Solutions Partner and you wish to have clients call you instead of MasterMine when they are ready to license the software. In this case, update the VARName and VARPhone fields with your own information before installing generally.

Copy a MMINI.xls with your preferred settings into the same folder as the mm5setup.exe on the CD, desktop or other folder from which you launch it, then run the setup as normal. MasterMine will detect the presence of your customized MMINI and substitute it for the default one.

2. Installing for Multiple Users on One Machine:

In a site license situation (you have as many MasterMine licenses as GoldMine licenses), multiple users can use MasterMine on the same machine, launching while logged into their own GoldMine account. To set up the necessary “View” menu items, after MasterMine has already been installed on the workstation, log into GoldMine under the

new user's username. In the MasterMine application folder, double-click on "MMconfig.exe".

The next time the user launches GoldMine, the "View" menu will contain the MasterMine launch items and the MasterMine add-in will be available in Excel.

File Locations

The MasterMine program and support files should be installed locally on each workstation to be used by a MasterMine user.

MasterMine's main files typically reside in a "Program Files" sub-tree named "MasterMine" and containing subfolders "Support" and "Toolkits". The installer also includes a number of standard Microsoft libraries (dlls) which automatically overwrite and self-register if older versions of the same dlls are found.

MasterMine's report workbooks are stored in a location set by preference at the time of installation. The default location is under "My Documents", in a folder called "MasterMine Reports". For users of GoldMine's dBase versions (6.7 and older, standard edition) MasterMine workbooks reside a MasterMine subfolder of the selected GoldMine contact set.

Once created, MasterMine reports can be stored anywhere without losing their functionality. This makes them easy to transport and share among GoldMine/MasterMine users. However, be aware that a MasterMine "share" license is required for otherwise unlicensed users to open and use MasterMine workbooks.

Terminal Services Installation

MasterMine may be installed on Terminal Servers, including those using such products as "Citrix®". SQL login and database parameters need be entered only once, as these are stored in the central MMINI.xls file. Log into the terminal server as an administrator and install MasterMine as usual, and do the following to make the software available to each user:

1. Add launch items to the user's GoldMine Menu if desired. This may be done manually, by copying the [FileMenu] segment of one installed user's "User.ini" file into those of other users. Alternatively, for each subsequent MasterMine user, log into GoldMine as the additional user, then double-click on the file MMConfig.exe in the MasterMine Support folder. This will set up a items and a toolbar launch item automatically for whichever GoldMine user is logged in.
2. Do the licensing in advance for each GoldMine user, as outlined above, or provide the license number in sequence to each MasterMine user so that they may license MasterMine the first time they run it.

Uninstalling

MasterMine's uninstall will remove all MasterMine program files from the machine as they were during installation. You may need to delete files or folders that have been created by users, or that have been created by the program itself. If this is the case, delete the application folder called "MasterMine" to remove any folders in the same "tree".

To complete the uninstall, you will need to perform some additional manual adjustments:

GoldMine "View" menu references to MasterMine must be removed from the file *yourname.ini* in the GoldMine folder using any text editor. If other custom menu items exist (they would be listed under [Filemenu] in the .ini) be sure to leave them sequenced properly starting with Opt1, Opt2, etc.

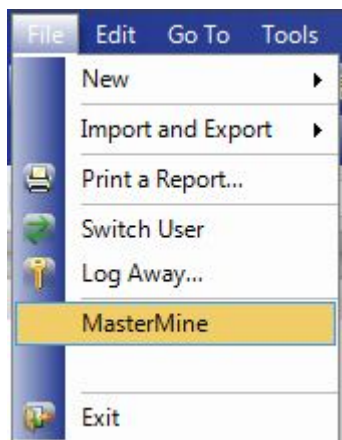
MasterMine adds a series of user-defined functions to the SQL Database as well. Your SQL administrator will find these functions by looking for Scalar Valued Functions with names beginning with "udfMM..." These may be safely deleted if the rest of MasterMine has also been deleted.

Uninstall will not remove *.xls files initiated and saved from MasterMine templates after installation is complete. By default, these files are located (for dBase) in "MasterMine" sub-folders of the contacts sets to which they refer or (for SQL) in the folder indicated by "SaveTo" in MMINI.xls.

Launch and Manage Reports

You have a choice whether to launch MasterMine from a GoldMine menu, from the taskbar in GoldMine, or from its own GoldMine menu.

MasterMine Menu Launch



MasterMine's installation creates an entry in GoldMine's "File" menu or "GoTo" Menu (or "View" Menu in earlier GoldMine editions) only for the user who was logged in during installation. After installation, log out and back into GoldMine to see the menu item.

Another launch item is added in the GoldMine taskbar, under the name "MasterMine" if the user elects to allow its creation during installation. The MasterMine taskbar item can be removed using the taskbar "Customize" dialog. It can be moved or removed from the GoldMine menu item by editing the user's username.ini file.

To add MasterMine functionality for **another user** on a workstation where MasterMine has already been installed, do the following:

1. Run GoldMine and log in under the new user's name.
2. Use Windows Explorer to navigate to the MasterMine application folder (by default, it's c:\Program Files\MasterMine\) and double-click "MMconfig.exe". MasterMine installs the view menu items for the new user (visible the next time he or she logs in).

The Report Launch Dialog

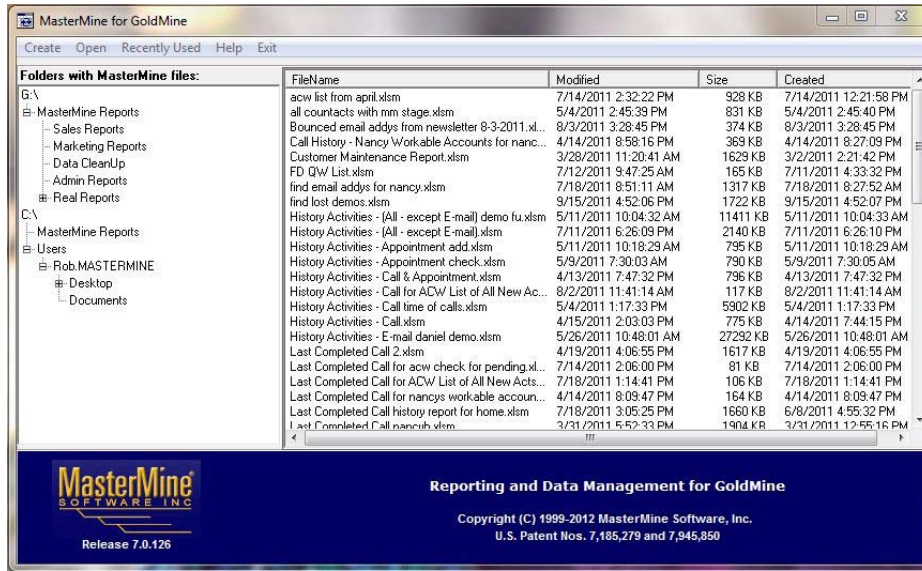
When you launch MasterMne, you see a directory dialog that allows you to quickly locate, organize and open your existing MasterMine workbooks. The treeview on the left displays all remembered locations where you have previously saved MasterMine workbooks, both on your own workstation and on the network.

To open any report, simply select the desired folder containing the workbook in the left-side treeview, then double-click the workbook itself on the right.

Sort the files within each folder by clicking on the header of the column you wish to sort by, Filename, Modified Date, Size, or Created Date. Click again to reverse the order between ascending and descending.

Folder Treeview Content

For new users of MasterMine, this folder tree will be empty at the beginning, even if other users have “shared” reports to you. Over time, this treeview will expand to include all additional locations where you save MasterMine Reports. Skip right to the “Create” menu item to begin creating new reports (if you are licensed to do so) or use the “Open” dialog to navigate to a report created and saved by another user. From now on, the folder containing the opened report will appear in this treeview.



Use the right-click short-menu to further control the folders that are displayed here.

Set the default folder for your “Open Report” dialog as well as for the launch dialog itself by right-clicking on your preferred folder and selecting “Set Default”.

Choose “Remove Path” if an undesired folder appears in the list (say, because you saved a workbook unintentionally to the wrong location). The deleted folder path will no longer appear in the treeview dialog, until another file in that folder is opened or saved by the user.

Right click on a folder and select “Show Sub-directories” to expand the tree to contain all sub-folders of the selected folder. To permanently add a subfolder to the tree, open any file stored in that subfolder.

Files List

The files list on the right side displays all Excel workbooks found in the folder selected on the left side. The list can be easily sorted by filename, date last modified, size, or date created, simply by clicking on the appropriate column header. If you select a folder that contains many Excel workbooks, you do not need to wait for the file list to finish filling in before you click on another folder.

The files list provides some tools for organizing your MasterMine reports more easily than if you were operating in the open Windows directory dialog.

Right-click on a filename in the file list for a short menu that allows you to open, rename, or delete the file. You can also copy the file path and name to your clipboard, for pasting elsewhere.

Drag files into any folder listed on the left side, so that you maintain a manageable list of active reports, under each folder. Sort out unused workbooks to archive folders or delete them.

Launch Dialog Menu

Create a new report by clicking on the Create menu. The details of this action are covered in the next chapter.

Open any existing report by navigating to it using a traditional windows directory dialog.

Click **Recently Used** to launch a workbook from a list of the ten most recently used MasterMine workbooks, in descending order from the most recent.

With **Help** you can launch the MasterMine User Manual in .pdf format, go to the MasterMine website, where you can find many resources to help you learn more about MasterMine or purchase support services or additional licenses. And finally, you can register as a MasterMine user by entering your [license number](#).

Preferences

Launch the Preferences menu from the MasterMine Launch “Create New Analysis Workbook” dialog. It is not mandatory to change preferences at setup time, but you may wish to go through this dialog at least once to familiarize yourself with available options.

Preferences apply at the workstation level, and are relevant to “creating” reports, but not to users who only share reports created by others. Initial settings are held in a file called

MMINI.xls, in the “Support” folder in the MasterMine application tree on each workstation. This “ini” file is updated by changing the settings in “Preferences”.

Ini settings may be shared among multiple workstations by copying the file MMini.xls from one workstation to that of any other MasterMine user. They may also be updated directly by opening the MMINI.xls file in Excel and applying changes manually.

On a separate tab in MMINI.xls called “GMSQL”, MasterMine keeps track of the SQL login information needed to access the SQL database. This information is required during installation and again later if MasterMine fails

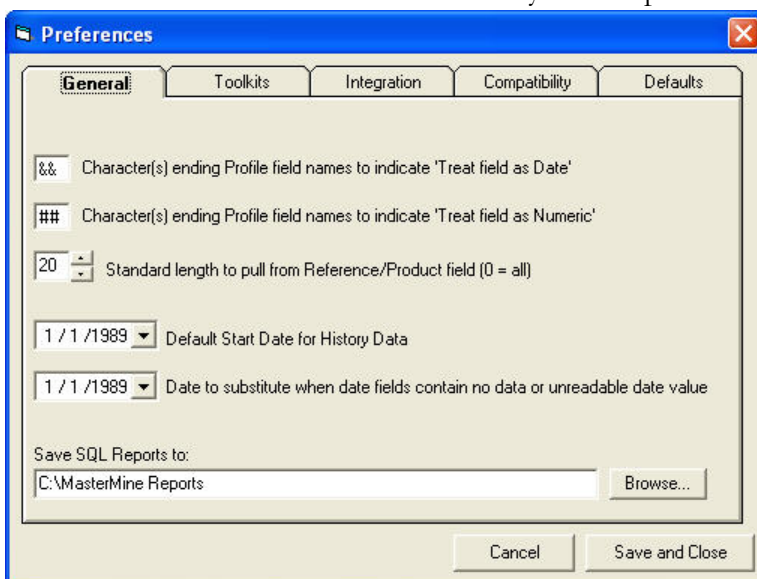
while attempting to log into SQL when launched.

General Preferences

Preferences set on the “General” tab affect how MasterMine builds field expressions and where reports are stored.

Character(s) ending Profile field names to indicate ‘Treat field as Date’: and
Character(s) ending Profile field names to indicate ‘Treat field as Numeric’:

These 2-character codes designate field “types” in GoldMine detail records. See “Appendix A: “Details” Tab Reporting” on Page 137 .



Standard length to pull from Reference/Product field (0=all):

The Reference field in history records is often used to contain multiple pieces of information. If you want to pull only the first x characters from the Reference field, enter a number here.

Another usage: References are especially long fields and can result in “Out of Memory” errors when querying large amounts of data on older computers using older versions of Microsoft Excel. In order to keep this to a minimum, MasterMine allows you to query Reference data in a field called “ShortRef”, which contains the first x characters of the Reference field by default. You can adjust this length for all subsequently created reports by changing the number here.

Set this parameter to 0 to have ShortRef pull the entire reference field. Note that there is a full “Reference” field also available in the field list, as well as “Product” for sales-related reports, all of which pull data from the same “REF” field in the GoldMine data.

Default start date for history data:

When running a history report, the user designates a starting date so that queries on very large databases won't unnecessarily bog down the process. This is the default date that comes up in the “Start Date” field on both the front screen and the filter screen.

Date to substitute when date fields contain no data or unreadable date value:

Querying dates into a MasterMine report can provide powerful “date range” groupings, etc. However, to accomplish this, all items in a date field must contain a valid date. If the source field is blank, null or a character-type field that contains a non-valid date, MasterMine substitutes the default “Null date.” **Save SQL Reports to:**

MasterMine saves GoldMine reports to this location when the source data is MS SQL. For reports with dBase source data, the software automatically saves reports to the “MasterMine” folder within the GoldMine contact set folder to which they refer.

Toolkits Preferences

Toolkits are sets of report templates listed under the “Templates” menu. You can turn off toolkits you don't use on this tab in preferences.

Removing some toolkits not only reduces the number of options a user has on the “Templates” menu (thus possibly reducing confusion) but also makes loading of the software faster.

Another consideration is your use of “Opportunities” and “Projects” in GoldMine. If your company does not use Opportunities or Projects, it makes sense to simply turn them off in this tab.

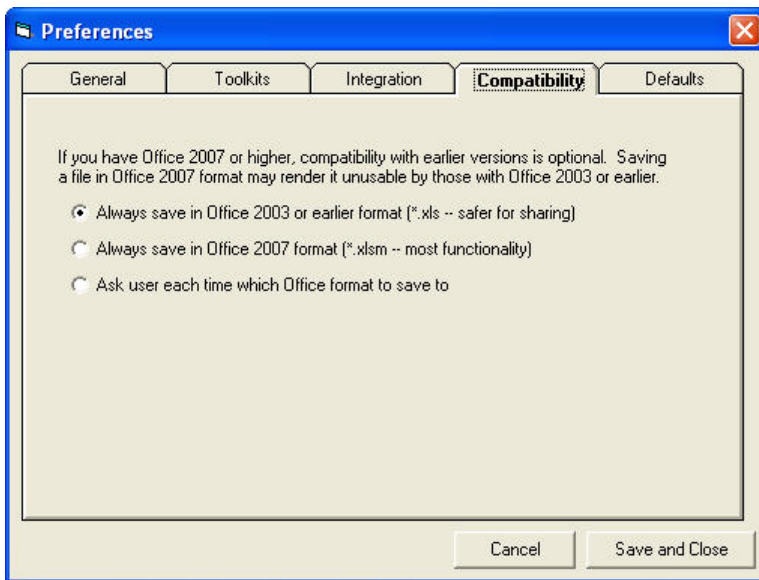
MasterMine provides toolkits that work with systems where, by the choice of the GoldMine administrator and formal user rules, all Opportunities are either linked to a specific Contact or not. For reporting purposes, you will want to have EITHER the Opportunities Linked to Contacts, or the Opportunities Unlinked to Contacts toolkit turned on. Likewise, turn on EITHER “Projects Linked to Contacts” or “Projects Unlinked to Contacts”, but it is unlikely you will use both.

Integration Preferences

Integration is covered under “setup” in Chapter 2. Please see “Integration with GoldMine Add-on Products” on page 28.

Compatibility Preferences

Since the release of Microsoft Office 2007, not all Excel workbooks are created equal. For optimum use of MasterMine, store Office 2007 workbooks in a new format that enables background macros (extension .xlsm). This allows MasterMine workbooks to take advantage of much higher memory limits and field item count limits than before. Once created, these reports may be difficult to share with users of Office 2003 and earlier.



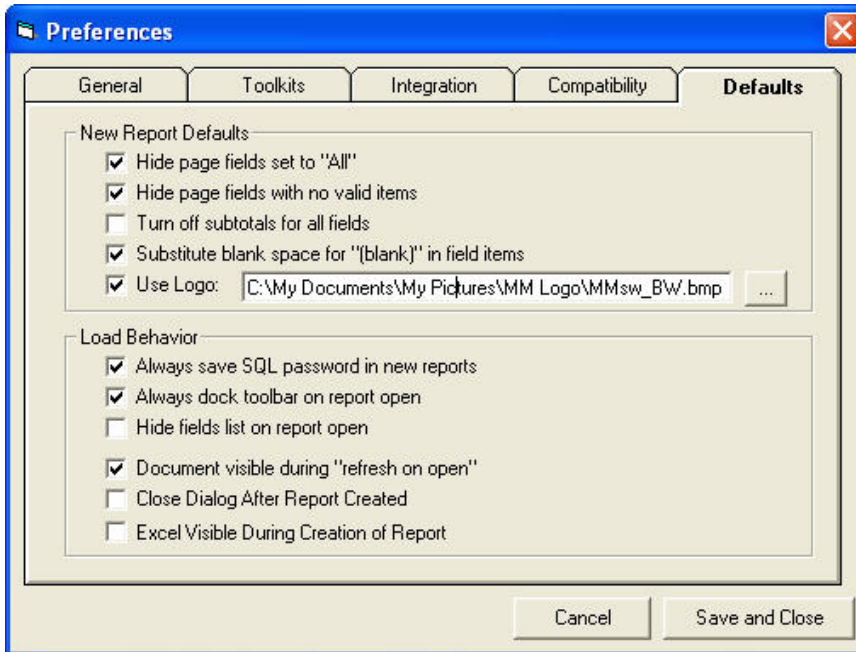
While it is possible for users of Office 2003 to acquire a free add-in from Microsoft that allows opening and reading .xlsm files, full compatibility between versions is not possible. Pivot tables that use the higher memory limits of Office 2007 become invalidated when opened in other versions.

Therefore, when creating new reports with Office 2007, it is necessary to choose which version's format to store the report. Typically, if every computer that might be used to share MasterMine reports has Office 2007, you will want to automatically save every report as Office 2007-compatible.

If only some workstations have been upgraded, you may wish to select compatibility each time a new report is created. You may set the preference to always create in Office 2003 format, but note that this will limit your memory usage to Office 2003 limits, and this may deprive you of some useful functionality.

Defaults Preferences

MasterMine offers a number of options regarding the initial setup of newly created MasterMine workbooks. Users who have some experience with MasterMine can “shortcut” some of the formatting choices that would normally be made later in the process. In setting your choices here, bear in mind that doing so might leave users unaware of formatting choices that are available.



“Hide page fields set to ‘All’”

Many MasterMine reports start with a long list of fields in the Page (filtering) area of the report. The user is expected to make filtering selections or to pull these fields into the display area of the report, then “hide” the remaining fields in the Pivot Table Field List. Leaving this item unchecked produces this result.

Checking this item causes all page fields for which there is no set default selection to be automatically hidden. This produces a “cleaner” report, with many fewer fields on the page. On the other hand, users need to be aware that fields can be retrieved from the

Pivot Table Field List at will, by dragging and dropping.

“Hide page fields with no valid items”

Hiding page fields with no valid items provides a less drastic alternative to the previous item. It simply cleans up the page area of your report by removing fields that are included by default in the report, but for which there is no data in the GoldMine database. Such fields serve no purpose in the report.

“Turn off subtotals for all fields”

By default, every field in an Excel pivot table has the subtotaling function turned on, under the assumption that most reports are meant to sum and aggregate data. In the case of “line listing”-type reports, where many fields are dragged into the row area of the report, this selection automatically turns it off for all fields. Users then need to deliberately turn on the subtotaling function for fields where they wish to use it.

To turn them back on, double-click each field button for which you wish to restore subtotaling and check “Automatic” on the left side under “subtotals”.

“Substitute blank space for ‘(blank)’ in field items”

By default, blank spaces in pivot tables are represented with the written-out notation “(blank)”. For users who prefer that reports default to a true blank data field, this alternative automatically substitutes a single space instead of “(blank)” for all fields.

Note that this is not related to another distinction frequently seen with SQL databases: namely, the distinction between null values and blank values. SQL Server makes this distinction, returning to Excel a null value (alphabetized at the top of the field item list) if the field has never contained a value, and returning a “” or blank (alphabetized at the bottom of the field item list and showing up by default as “(blank)”).

Although MasterMine does not do this automatically, users may wish to aggregate these two forms of “empty” by grouping them into a single item, or by applying the Isnull() function in MSQuery to the field in question.

“Use Logo”

Check this item and enter a valid path to any image file that Excel can handle (.jpg, .bmp, .gif are the most common) to automatically print the image in the upper left corner of the report and automatically link it into the header of each page of the report. After opening the report, it can be edited or removed in Excel by going to “print preview”, hitting the “Setup” tab and then hitting the “Customer Header/Footer” button.

“Always save SQL password in new reports”

For maximum security in SQL, the default Excel pivot table requires the user to enter a valid SQL login username and password in order to access the underlying data each time. Typically this happens when refreshing the report or entering MSQuery to modify the underlying query. Check on this preference to store the SQL password within the Excel workbook and to use it automatically when needed. Be aware that the password is not encrypted when saved in the Excel workbook, and can therefore be hacked by a savvy user. MasterMine does NOT expose this password unencrypted in any of its functions.

“Always dock toolbar on report open”

For cleanest startup in Excel 2003 and lower, some users prefer to have the MasterMine toolbar dock with the other toolbars by default. The alternative, for frequent MasterMine toolbar users, is to move it manually to the top of the Excel window when not in use. This is not an issue with Excel 2007 and higher, which does not offer floating toolbars.

“Hide fields list on report open”

The pivot table fields list is not necessarily needed for reports with stable design and for which fields will not be dragged in and out of visibility. Hiding the fields list automatically reduces visual clutter when the report is opened. Note that the list can be opened any time from the “Pivot Table toolbar” in Excel.

Document visible during ‘refresh on open’

Sometimes reports are set to “refresh on open”, reading data from the GoldMine database to make them current while loading rather than waiting for the user to manually click the “refresh” button. Checking this item makes them visible before the refresh operation begins, so that the user can see the progress of the refresh (the number of queried items appears at the bottom of the Excel window).

Close dialog after report created:

By default the MasterMine “Create” dialog stays in computer memory when it finishes creating your report. If you prefer to have MasterMine shut down automatically each time you run a report, check this box “on”.

Excel visible during creation of report:

Instead of the MasterMine “progress message”, checking this box allows you to see the creation of the pivot table in Excel, beginning with the querying of the data, including formatting fields, orienting them in the report, etc. Some users may find this view confusing, so it is best to leave it off unless you are debugging.

Creating New Reports

If you are too impatient to read this user manual, and you are already familiar with Microsoft Excel PivotTables, at least read this chapter to get started. It contains everything you need to know to generate new MasterMine reports. You can learn the rest by doing, or by reading later chapters.

Open MasterMine Report...

is a standard Windows dialog that provides access to the MasterMine-generated workbooks (reports) you have created and saved. Initially, of course, there are none, so this dialog will be empty. More on this dialog later.

Create MasterMine Report...

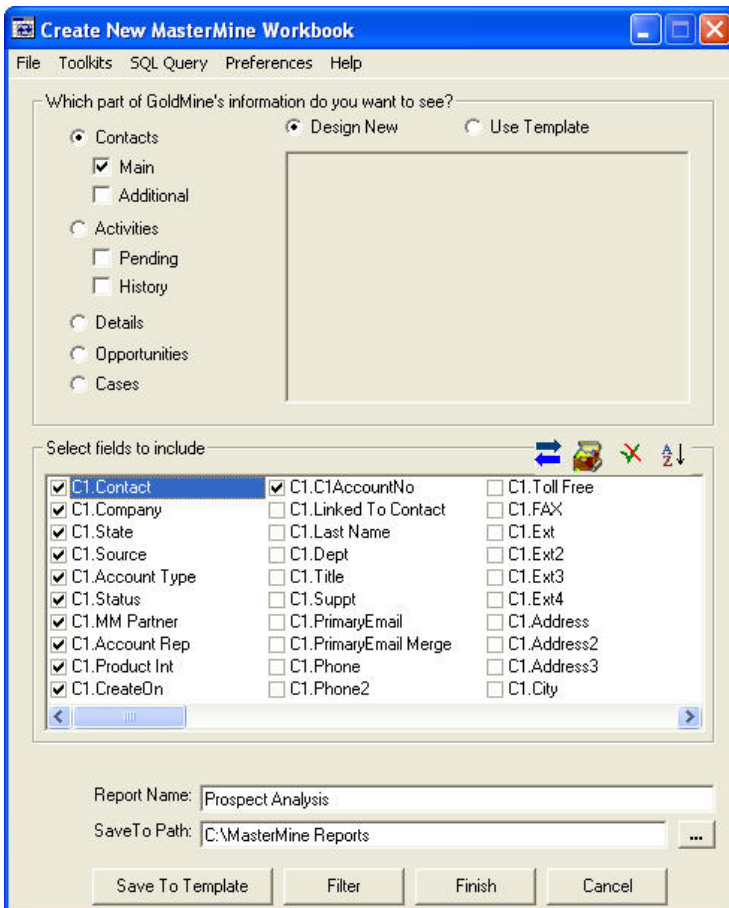
Launches the MasterMine report generator, featuring an intuitive interface that makes generation of new reports a snap. The rest of this chapter covers the usage of the MasterMine “Create” dialog.

Generating a New Report

MasterMine is designed to make extracting information EASY. You simply select which “category” of information you want to report or analyze and MasterMine presents it to you in the flexible, analytical format of a pivot table.

Typically, the process includes these steps:

- **Select data category**
- **Select fields to include (optional)**
- **Sort fields for drill-down presentation (optional)**
- **Add “macro” filtering criteria (optional)**
- **Hit “finish”**



These steps are explained in detail here:

Select data category

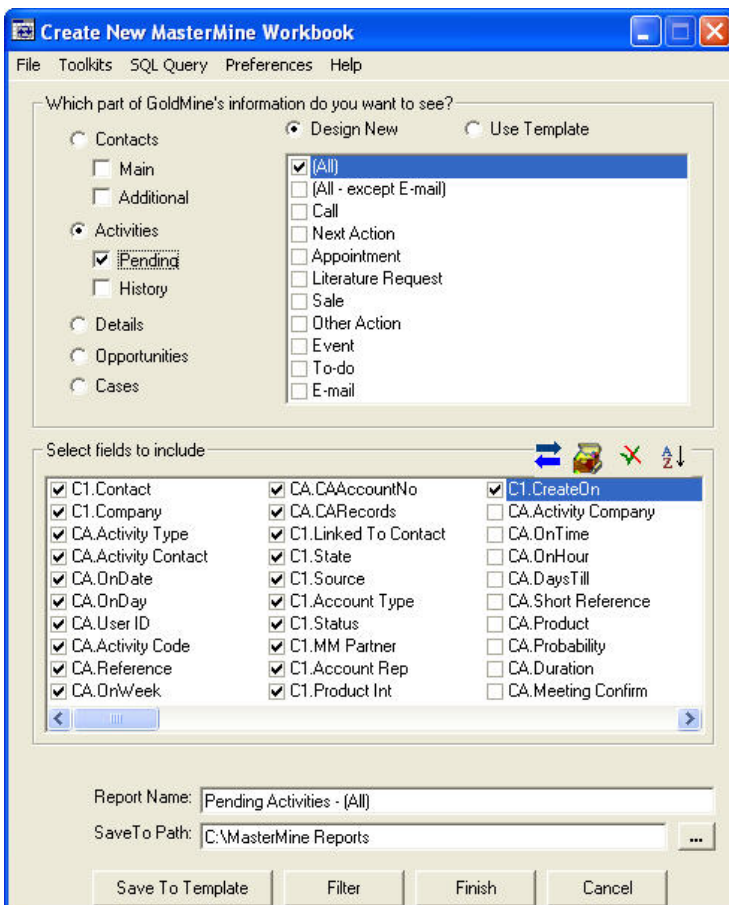
Select the part of GoldMine you wish to analyze or report. The top left of the main screen shows the available areas in GoldMine from which you can pull information. These include, at least:

- **Contacts**
- **Activities**
- **Details**

with subcategories under Contacts (Main and Additional) and Activities (Pending and History).

If your organization uses GoldMine Opportunities, Projects, or (for GoldMine Premium Edition or higher) Cases, these can also appear in the list. They can be turned on at installation time (see “Installation”, page 21) or at any later time using the “Preferences” dialog (page 38).

Your first choice specifies which GoldMine area you intend to report. Once you’ve selected the area, you can easily build a report “from scratch” but specifying more narrowly which subtypes of each data with which you wish to work. Alternatively, the following section discusses existing template selection once the GoldMine area is specified.



Contacts: You can report on only main contacts, or (by checking “Additional”) you can include the contacts on the “Contacts” tab in GoldMine in parallel to the main contacts, as though they were in one big table together.

Activities: Select Pending, History, or both to report at the activity level. One “row” will be returned for each activity record, so these reports are “activity”-centric.

If you select Activities, you have a secondary choice of the type of activities to include, like Calls, Appointments, etc. This list corresponds to the types of activities tracked in GoldMine under “Schedule” or “Complete” menus and displayed in the Pending and History tabs. In the dialog, simply

check on which types of activities to include in the report.

If you select multiple types of activity, or if you leave the default selection checked on (for Pending: All, for History “All-except E-mail”) you will still be able to filter or group by Activity Type within your MasterMine report. Limit your report to only one or a couple of activity types only if you wish to permanently exclude other types, for instance, if you want to create a “calling report” and know you will not be using this report to compare calling and appointments and other possible contacts with your prospects or customers.

Sales Reports

Selecting “Sale” only and *unchecking* all other types of activity produces a sales-oriented report such as “Forecasted Sales” or “Completed Sales”. Fields that relate only to sales such as “Potential Sale Amount” (the full amount in the “Amount” field) and “Probable Sale Amount” (the full amount times the probability of the sale) are switched on by default. Your report will be automatically formatted specifically for sales analysis, though the fields can be easily rearranged to make a multitude of useful reports.

In contrast to other activity reports which are “count” based, sales reports are by default amount-based, but also allow you to track counts, units and probabilities as appropriate.

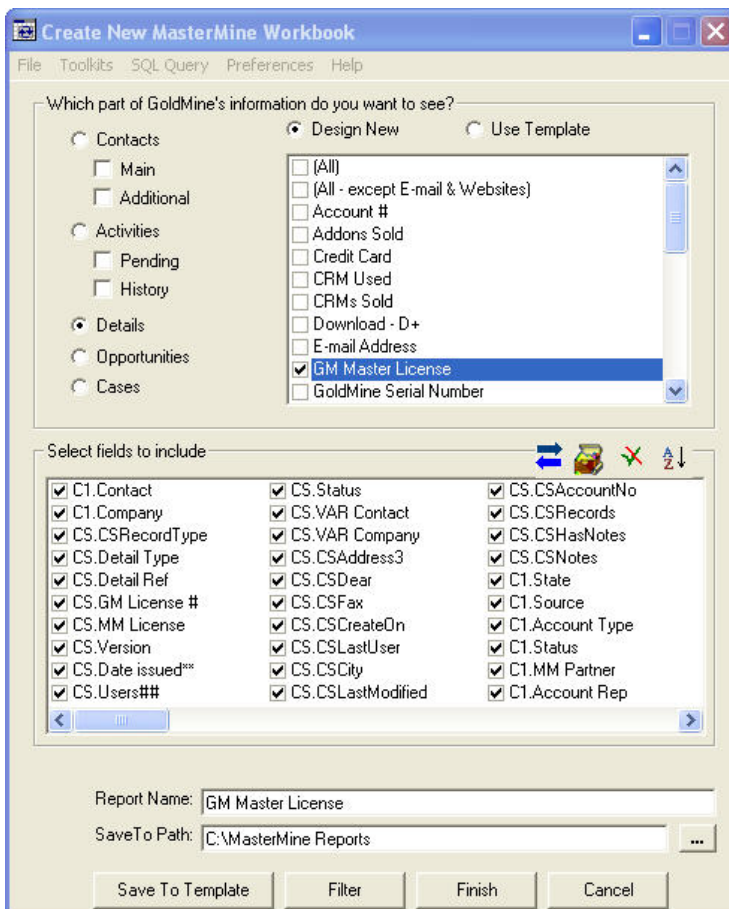
Details: (sometimes referred to as “Profiles”). If you select Details, the right side of the MasterMine dialog displays a checklist of the user-defined “Profiles” set up in your

GoldMine. This is the same list you should see when you right-click in your Details tab in GoldMine, select “New”, and view the Lookups for the Detail field.

Typically, you will be reporting on one type of Detail/Profile rather than many, so check the box next to the detail type you wish. If only a single Profile is checked, the fields list below will reflect the user-defined field labels from the GoldMine setup for that Detail (Profile).

If you don’t know how Details, and particularly user-defined “Profiles”, relate to the rest of GoldMine’s data, you may find it difficult to make sensible reports. You can learn more about Profiles in GoldMine’s “Help” or in the GoldMine User Manual. This will prepare you to report on this vital GoldMine data.

Once you understand Profiles, you can use MasterMine to leverage this powerful component of



GoldMine even better. This knowledge will also help you to set up preferences and “tweak” Profile field definitions so that you can get the most from the information contained here.

If your reports do not work as expected, see the section on “Appendix A: “Details” Tab Reporting” on page 137.

If you use DetailsPlus, (an add-on for GoldMine from Solica Consulting Ltd.) and you have entered the proper information in the “integration” tab in Preferences (see page **Error! Bookmark not defined.**), Profiles that are defined in Details Plus will have “D+” appended at the end of the name.

For these details, the fields list below will show the field labels defined in DetailsPlus, rather than the generic fieldnames like “CS.CSAddress1”, etc. or the user-defined fieldnames from GoldMine’s own setup. These fields will also reflect the proper field types (Character, Date, Numeric) defined in DetailsPlus.

Opportunities, Projects, and Cases

If you have these options turned on in preferences, they are available here on the front of the “create” dialog. MasterMine produces a simple default report for each of these if selected under “Design New”, but the majority of reports for these areas of GoldMine are launched using the “Use Template” option, described in the next section.

Click “Finish” when ready. Having selected your target GoldMine area, you could just hit “Finish” now, to create a workbook of GoldMine accounts information. This workbook alone could provide you with a multitude of views into your GoldMine database. However, there are many further refinements available to you.

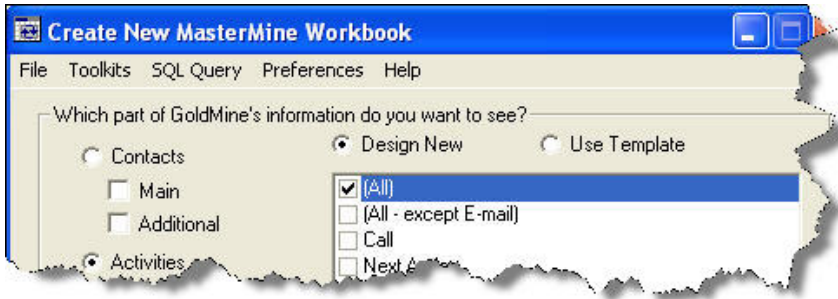
Technical Point: Table Joins

Those familiar with Transact-SQL may want to know how MasterMine includes and joins tables. For most reports, MasterMine queries an Outer join (all activities, plus their associated contact information), if you include only data from the activity table and Contact1. If three tables are involved, such as Cal, Contact1, and Contact2, an inner join is used.

Some templates expressly reverse this join, including all contacts regardless of whether they have activities linked to them – but also include the pertinent activities. An example is the “All Accounts – and linked pending” report (see “Use Template” below)

“Design New”

MasterMine is designed to make it easy to create reports from scratch, to go from idea to report in only a few seconds without necessarily loading a template. Many users will take



the route offered by traditional report writing software and simply create a new report for every use, enjoying the short time to outcome and confident that there are no forgotten filters or setup quirks in their new report.

For this approach, the default **“Design New”** serves the purpose.

If you have selected the “Activities” area of your GoldMine data to view, the window under “Design New” will also display a list of Activity Types tracked by GoldMine. In the list, check one or more activity types to include in your report. By default, MasterMine produces a count of each of the selected activities in a calendar-based format.

Scenarios:

A few examples of how to make selections in the “Design New” dialog:

If you want a report showing:	Then select:	
	Area Button	Record Type
Forecasted sales for the coming year	Pending	Sale
The past month’s calls and appointments compared to other months	History	Calls Appointments
All activity associated with any customer, shown in one place	Pending History	All or All except e-mail
A report of custom profile or detail records by any name	Details	Select the name of the profile
A list of contacts (both main and supplementary) that meet certain criteria	Main Additional	(none) – use “filter” button

Another option for quickly reaching your goal is to use one of MasterMine’s built-in report templates, which are designed to anticipate reporting or specialized query needs that users frequently encounter when working with GoldMine. The next section covers the use of these invaluable tools.

“Use Template”

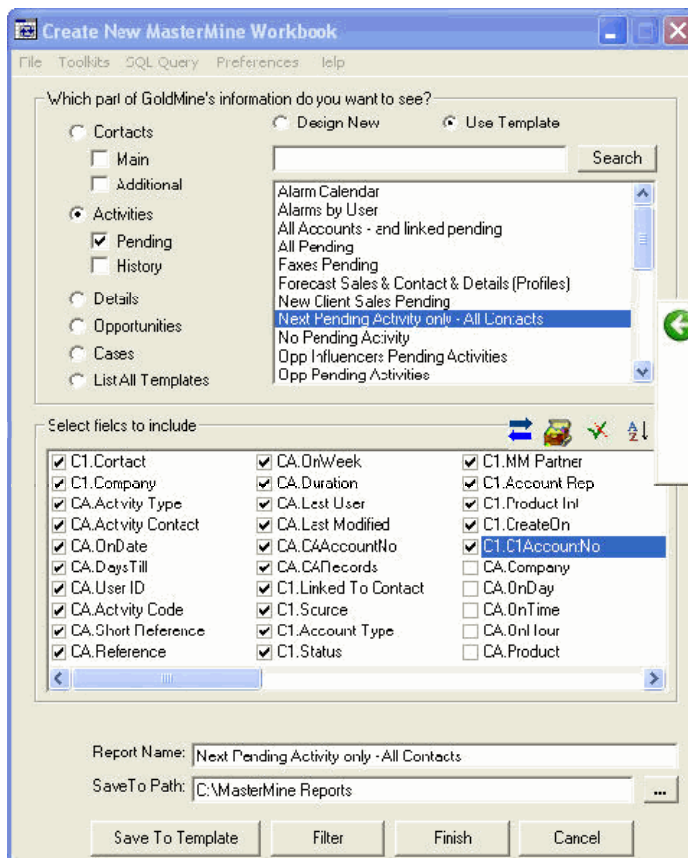
MasterMine has more than 125 built-in report templates, each of which instantly branches off to literally thousands of variations, as needed. Using these templates wisely can get you the results you need instantly to, without needing to build every report yourself.

These templates cover a wide variety of areas in GoldMine, encompassing virtually every part of GoldMine’s data that you see in the GoldMine product itself.

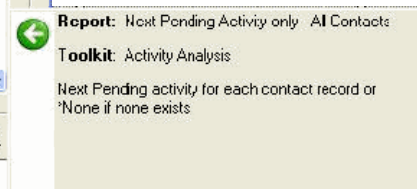
Selecting the appropriate template can help get your desired outcome quickly, whether it is a report, a dynamic analysis or data management project.

Template Finder

When you check “Use Template”, a selection of MasterMine templates appears. The list you see is **ALREADY NARROWED** to those appropriate for the area of GoldMine you selected on the left.



Find the appropriate template by browsing through the list. As your mouse hovers over each template name, you can see the toolkit and a detailed explanation of the template in the information bubble to the right. Use this information to decide which template to select without clicking through each one.



You can sort the list by report name alphabetically (default) or by toolkit, then report name, by right-clicking on the list and selecting the appropriate sorting option.

How to see all available templates:

For the broadest selection of templates, click “List All Templates” at the bottom of the “area” selections on the left. If you use this option, you will probably need to search by keyword to find the right template.

Search for the right template by keyword

You can use keywords to find the template that best suits your needs. In the space above the template list, enter keywords, separated by spaces, and click “Search”. The list is

narrowed down still further to include only templates from the GoldMine area you selected on the left that have **all** the keywords you entered.

To broaden your search, click “List All Templates” at the bottom of the area selection or remove some keywords from the search box, then click “Search” again.

Toolkits

Another way to find an appropriate template is to search by “Toolkit”. MasterMine templates are grouped into job- and task-related “toolkits”, which contain report templates formatted for specific purposes. It is a good idea to familiarize yourself with the templates in the “Job-related” toolkits, as they contain many useful reports that you may not have thought of on your own, but which may help fulfill role-related responsibilities.

There are two ways to see templates sorted by Toolkit. The first is to simply sort the templates in the template search window, as described above. The second is to use the Templates menu.

“Templates” menu: If you are already familiar with the available templates and know which toolkit you need to use, simply click on the “Template” menu, select a toolkit, and see a dropdown list of templates contained in that toolkit.

Example:

Toolkit: Sales Manager

Workbook: Past Due Pending Activity

This one workbook can be the basis for many useful **reports**, each easily created in a few minutes:

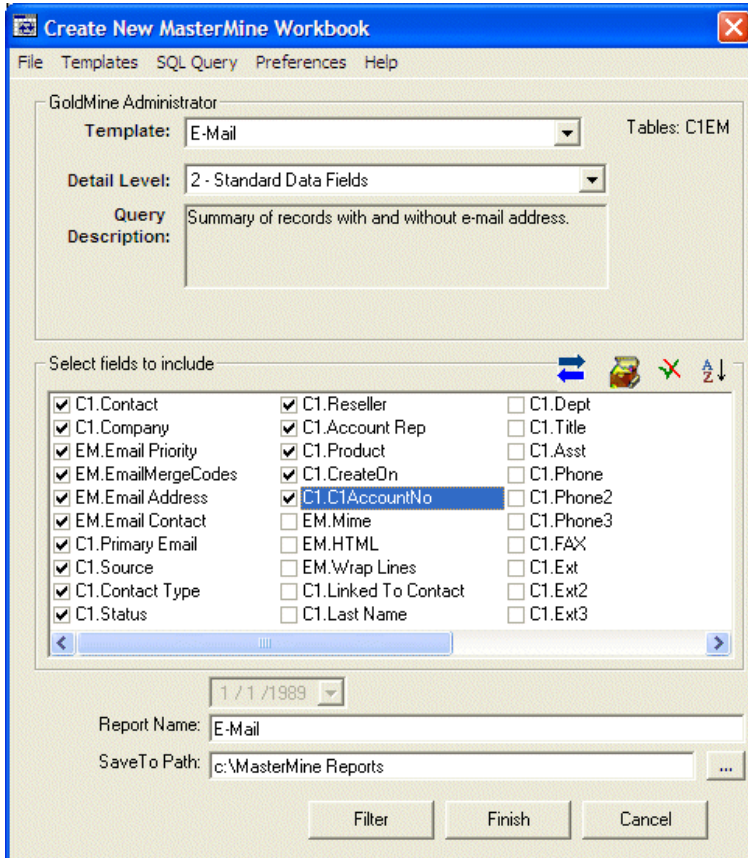
- Full calendar of Past due activities
- Past due calls by user
- Past due forecasted sales by territory
- Past due calls & appts by month
- Past due activities by user, activity type, and product category (or any custom field)
- Almost any combination you can imagine

Your GoldMine administrator may regulate which toolkits are available to you, by removing or adding toolkits from the “Toolkits” folder within your MasterMine application folder. Some Toolkits may be enabled or disabled in the preferences page in your MasterMine interface. .

In addition to the **“MAIN REPORT BUILDER Toolkit”**, which renders the most global overviews of GoldMine data files, MasterMine comes standard with a **“GoldMine Administrator” Toolkit**, **“Sales Manager” Toolkit**, and a toolkit for building workbooks from scratch, called **“by GM Table Name”**. Additional toolkits include more templates to handle general **Activity Analysis, Combined Pending & History, Projects, Opportunities**, and more. A discussion of each of these toolkits is available in Chapter 9:

References, starting on page 137.

A **customized toolkit** may be added by your GoldMine Solutions Partner or by MasterMine Software, to simplify and speed up your implementation or to facilitate handling interaction with databases outside GoldMine. Although these toolkits look like Excel workbooks, they are password protected and are not for end-user manipulation.



Selecting a toolkit on the Templates menu changes the list templates available in the “Template” listbox.

Select Template: In the “Template” listbox, select a report by name. As you select a report, a summary explanation of the report appears in the display window below. The References Section (page 144) of this manual gives you some tips about the contents of each report. Most names are self-explanatory. Also, see the “Tips” in the next section on selecting the most efficient template for the reports you need.

Select Detail Level: Detail level determines the quantity of default-selected fields in the field selection list box below. This is a memory-management feature that is useful mainly with very large databases, or on older computer systems where memory was at a premium.

In most cases, detail level 2, the default, is sufficient. A lower detail level gives you fewer fields in your report but speeds data querying and refreshing of

your reports, and may allow you to load many more records than would otherwise fit into your computer’s memory. A higher level of detail gives you all possible relevant fields in the target data files, but may result in slow data querying. Detail can be “fine tuned” by selecting or de-selecting fields to be included individually.

The information box below the detail level indicates the number of bytes per record that will be loaded into memory at the currently selected detail level. Multiply this times the number of records likely to be included to determine how much RAM will be required for the report.

Select fields to include

MasterMine defaults to include a selection of fields for the type of report you have selected. However, every field in the affected tables, including all your custom-designed fields, is available for inclusion. Under “select fields to include”, click on fields you wish to include in your report, either as filtering criteria OR for display.

Each field name is preceded by a two-character table indicator, which tells explicitly which table the field comes from. The most commonly used tables are as follows:

C1 – Contact1

C2 – Contact2

CA – Cal

CH – ContHist

CS – ContSupp

OM – OpMgr

GS – Gsites (GoldSync Sites)

UL – User Log

MasterMine reports include a number of “pseudo-tables” in order to facilitate the mixing of data from various similar tables. The most commonly used are as follows:

CX (Contact1 and ContSupp Mixed) – includes main AND supplementary contacts in the same query. CX can mean either table, because the report overlays addresses from supplementary contacts records where this information is missing but present in the Contact1 record.

PH (Pending and History) – is a special table name designating Cal or ContHist for reports that pull data from both tables in parallel. For instance, the PH.ActivityCode field pulls data from both tables and presents them as though Pending and ContHist were really one table – so your report can combine both and ignore the distinction.

Field Selection

In the list box in the bottom half of the report creation dialog, simply check to the left of every field you want to include in your report, either as content OR as filtering or selection criteria. Think not only of what fields you want to display, but also what conditions you want to use to select or sort what will be displayed!

Obviously, your selection of fields determines the data that will be available in the reports you generate from the template you select. The more fields you include, the more flexible will be the reports you create. HOWEVER, pulling more fields also requires more system memory, so you should select your fields wisely, with both eventual usage and system limitations in mind.

Because you can include fields just by checking them “on” in the list box, this is the easiest time to include fields you may want later. Therefore, as long as it does not unduly slow your query or cause the pivot table performance to be sluggish, you should include any related fields that may be needed for the report you are currently building AND any derivative reports you may wish to make in the future.

How to find the fields you want to include

In most cases, MasterMine displays fields using the User-defined Labels assigned by your GoldMine database administrator. This is so that you do not need to know and translate GoldMine labels to the underlying database fieldnames in dBase or SQL.

However, the fields are sorted by database Table (Contact1, Contact2, Cal, ContHist, ContSupp, etc.) so that the user can find and connect these fields in a logical manner. Therefore, fields appear with a prefix of “C1”, “C2”, etc. corresponding to the table from which they are derived.

Note that MasterMine includes many “fields” that are not really fields in GoldMine! That is, they are logically derived from data that is stored in GoldMine, but the data has been converted to a more useful form for reporting purposes. To take one simple example, GoldMine stores the “duration” of an activity in the form HH:MM:SS (for hours, minutes, seconds) which is not an easily “reportable” format. In addition to providing you with the raw Duration field from completed or pending activities as GoldMine stores it, MasterMine converts this field into a numeric field called “Hours”, and another numeric field called “Minutes”, which can be easily grouped and summed for time-based reporting.

This manual includes a fairly comprehensive description of the GoldMine data structure in the References section at the end.

Obviously, the references here cannot include fields unique to your customized GoldMine installation. In general, note that Contact-level user-defined fields are found in the Contact2 table, and their database names begin with the letter “U”. MasterMine also includes fields from user-defined Profiles (Details) and from the Opportunity Manager and Project Manager tables.

Depending on your access rights in GoldMine, you can Ctrl-DoubleClick on a field in the main GoldMine screen to see that field’s database name and definable attributes.

Why limit fields to include?

System performance is directly affected by the quantity of data, both number of fields and number of records from which those fields will be drawn.

With a fast machine and Office XP or higher, you are limited only by the available RAM on your computer, and to some extent by the potential complexity of your displayed data (see page 174). In Office 2000 and earlier, Excel reserved only 100 MB of RAM for a given pivot table query, so bear this limitation in mind when selecting your fields. Excel 2000 users with a very large database (more than, say, 250,000 records in the tables you are pulling from) may need to be careful to limit the field selections to “necessary” fields.

Trial Queries

You may need to make several passes at creating your initial query to determine the optimum fields to include. MasterMine makes this convenient by leaving open the “create” dialog after you create a report. If your first query is too large (if refreshing the report seems to take an unreasonable length of time, or you receive an “Out of Memory” error or a message saying, “some fields have too many unique items to be displayed”) you can quickly run the same query after unchecking some fields.

The Field List Short Menu

Two important functions are available within the Field List short menu that appears when you right-click on the field list area of the Create dialog:

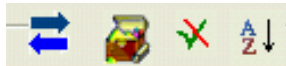
First, you can elect to sort Contact table fields, those within the Contact1 and Contact2 tables, either separately or together. If you sort them separately, all Contact1 fields (labeled C1) are listed before the Contact2 or C2, mostly user-defined contact-level fields. This change makes it easier to find your fields alphabetically.

Second, you can now select a governing GoldMine view from which labels are assigned to each of the fields in Contact1 and Contact2. Because GoldMine allows a single field to have many uses, they can therefore have many possible labels, according to each account's record type. MasterMine allows the user to specify a "view" whose labels will be the dominant ones appearing in the Field List. Any field that appears in the selected view will be labeled accordingly. Fields that are not used in the selected view are assigned the first available label from among other views in which the field appears.

To better understand these views, you can right-click on the upper portion of the GoldMine main contact screen and click "Select Primary Fields" to see a list of the available record type "views". Click a specific view to see what labels correspond to that view on the GoldMine contact screen.

Field List Controls


Beyond simply deciding WHICH fields to include, you may have additional considerations about your field selection. At the top of the field list box are several buttons that can aid you in selecting and organizing your query fields. The buttons look like this:



These buttons help you do the following:

 Sort fields for drilldown presentation

The order of fields in your query determines the column order in your drilldown screens (see page 111, Drilldown for Detail). For this reason, you may want to sort the included fields in your query before hitting the Finish button to create your MasterMine workbook.

Click on the "Sort Fields" button, then click ONCE on each selected field name (not the checkboxes!) in the sequence you want for them to appear in your drilldown screens. As you click, fields will rearrange themselves in the order selected. If you make a mistake, simply click "Stop Sorting" () and begin again. You need not select every field that will be included. When finished, click "Stop Sorting" and continue.



Show GoldMine Database names

You may toggle between seeing “local field names” and seeing the actual GoldMine database field names under the list view of fields by clicking the “GoldMine” button.



Uncheck default fields

MasterMine checks a typical selection of fields to include in your report, based upon the area of GoldMine in which you are working. You may wish to reject this selection and start with no fields selected. If so, click the “Uncheck” button. To restore the default selection of fields, click the “check” button again.



Sort unselected fields

The default order of fields in the list box is either the order they appear in a typical GoldMine dialog or, for custom user-defined fields in Contact2, the order in which they were added to the database. To make it easier to find a desired field, the “Sort” button alphabetically sorts fields within the table.

In combination with the “Show GoldMine Database names” button, this allows you to find and include fields using any known name or label.

Choose a Report Name

MasterMine assigns a default name to every report, but it makes sense to “customize” the name you put on every report you create. Not only will this protect your report from being overwritten by the next similar report that is created, it also makes it much easier to reuse and modify useful reports.

Choosing a report name may seem trivial, but you will find that if your name accurately but specifically reflects either the content of the data included (i.e. “Completed Calls for Prospects with Qualifying Info”) or the specific use to which it will be put (i.e. “Friday Calls and Appointments Report”), you will be able to re-use and branch off of your earlier work much more often.

Save To

The default SaveTo location is stored in MasterMine preferences. For dBase users, the SaveTo path is automatically a “MasterMine” subfolder of the contact set to which they refer. However, if you wish to store them elsewhere, you may specify another location in the “Save To” list box or use the “Browse...” button. Be aware that reports stored outside the default SaveTo folder will not appear when you use “Open MasterMine Report...” from the GoldMine menu.

Limiting Record Selection or “Filtering”

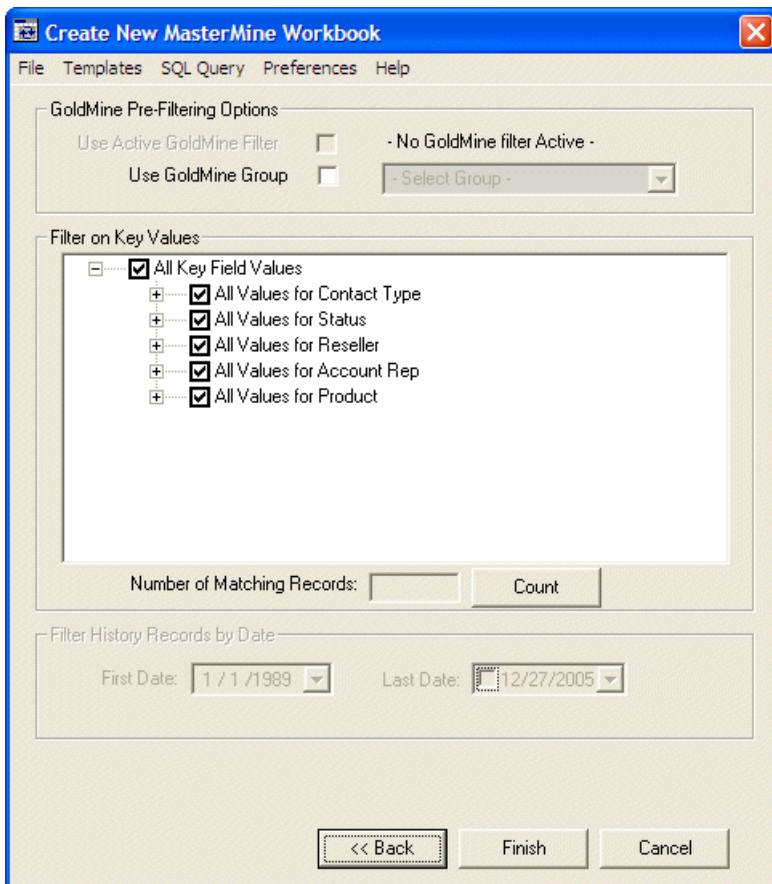
In addition to shaping your query at the field level, you may also want to limit the quantity or type of records (table rows) included. Although it is frequently easiest to simply query in a mass of data and set your filters within the report itself, where they can be changed later as needed, sometimes it helps to “pre-filter” your query. This makes a report more user- or job-specific, and therefore easier to dictate how it will be used and to limit the information available to users. It can also help optimize the size of a query, thus speeding processing and query refreshing.

Caution: Novice users tend to assume that filtering in the “Create” dialog is the best way to go. However, remember that as long as your data source is not large enough to make it cumbersome and slow, it is frequently much easier, and more beneficial in most situations, to **filter inside the report**

History First Date filter

The simplest way to do this is with the “History First Date” field that appears below the field list whenever you have selected a report involving the history (ContHist) table. This dialog allows you to choose a starting date after which records are eligible to be included in the report. For installations where GoldMine has been in use for many years, this can be extremely helpful.

However, note that you can typically do much finer and more flexible date grouping and selecting within the report itself (see Grouping Field Items, page 101). Don’t



accidentally make your report too limited by setting date parameters that prevent you from doing worthwhile analysis later – say, comparing this year’s sales rep call counts versus last year’s.

MasterMine remembers the last entered “first date”, and defaults to it next time.

Additional filtering criteria

If desired, click “Filter’ at the bottom of the page to pre-filter your query, so that your workbooks can more elegantly pivot around only the part of data of interest to you. Filtering options are as follows:

Use Active GoldMine Filter: If checked on and a filter is active in GoldMine, that filter will be applied to the new query. The checkbox is disabled if no filter is active in GoldMine.

Use GoldMine Group: May be used in combination with GM filter. This powerful option limits the query to members of a GoldMine group. After the report is created, if membership in the group changes and the report is refreshed, the new group membership will be represented in the report.

Upon selecting “Use GoldMine Group”, the user is given the option of selecting a different GoldMine user, whose Groups are then made available in this list box.

Tricks Using GoldMine Groups:

A MasterMine report based on a GoldMine group will change as membership in the group changes. That is, each time you refresh a MasterMine report, it references the group as it is at the time of refresh *not as it was* at the time the report was built. If you remove members from a group, those members will no longer be refreshed into an existing MasterMine report.

Also, note that GoldMine allows the creation of multiple groups with the same group name. If a group name is selected for which there are multiple groups, MasterMine combines all group members from all of the groups into a single report.

You can use MasterMine *itself* to quickly and easily build GoldMine Groups. (See Create and Use GoldMine Groups, page 112). These groups can in turn be used to “filter” a new report. This “circular” technique is often used to methodically hone a report down to a set of records that meet many different kinds of criteria, without needing to build a single filter or query that logically includes all the criteria.

Filter on Key Values:: Allows you to select a section of GoldMine data according to the contents of the key fields from GoldMine (i.e. those fields in the lower right quadrant of the standard record screen.) In most cases, these fields represent key points of information about your clients and prospects, and therefore allow you to include only major segments of your account database. For example, if you have a “Contact Type” field that includes lookup items “Clients”, “Prospects”, and “Employees”, you might use Key filtering to set up your report to exclude “Employees” since they will never be required for the report.

By default, all potential values are included. Build your filter the most efficient way either by eliminating a few of the checked boxes (to exclude only a few items) or by switching off whole fields and then re-including one or a few items. Hit the “Count” button to see immediately how many records match your criteria. Pre-counting is only possible for relatively simple queries – “N/A” will appear in the “Number of Matching Records” box if the query is too complex to be pre-calculated.

Remember that if you set criteria for more than one field, a record must meet the criteria for BOTH fields to be included in the query. If the count is ‘0’, your criteria may be too restrictive. That is, you may have eliminated all records in the database from the query. When you hit “Finish” to run such a report, a warning message box appears and you must re-select filtering criteria.

When dealing with large databases, there are several reasons to hone your query in advance. Faster loading and refreshing are obvious benefits. Most importantly, pre-filtering allows you to handle limitations in Office 97 and 2000 on the number of unique items that may appear in a pivot field.

Filter on History Dates: If your selected report includes a query of “history” (completed) activities, the history filter is enabled so that you can limit the query by date. This is the same “First Date” field that appears on the main MasterMine dialog screen. If you have already set the First Date on the opening screen, it will reflect the same date here. However, there are some additional considerations:

By default, the “Last Date” is disabled, unless you check the associated box. DO NOT specify a last date unless you want your report to permanently exclude newer history items than those on the date you set. Remember, MasterMine reports are almost always reusable; rather than re-generating and formatting reports repeatedly, you can re-open an existing report and refresh it. **Setting a “hard” last date will cause future refreshes to ignore new history items.**

On SQL systems, MasterMine uses optimized index querying against history records. This is important because it speeds up querying tremendously relative to queries against dBase systems, where every record must be searched and the date compared to your criteria.

View the SQL Query (Menu)

A technical note for users familiar with Transact-SQL: As a final step before hitting the “Finish” button to create a new MasterMine report, MasterMine allows you to view and alter the SQL Query that will be built from your selected settings to extract your data from GoldMine. If you are familiar with Transact-SQL, you can make certain changes using the SQL Query dialog.

The most likely purpose here would be to alter one or more field expressions or the WHERE clause of the query, so as to affect record selection.

For example, in a history report you may wish to include only records where JOHN was the UserID (the person who did the activity, which is NOT necessarily the assigned “account rep” for the contact). To do this, set up all other fields as normal in the main MasterMine dialog, then hit “SQL Query” to display and edit the query. At the bottom of the SQL Query, you could add to the existing Where clause something like

AND CH.Userid = ‘JOHN’

This would permanently limit the current report (not the next usage of the template, which would revert to normal) to include only records completed by JOHN.

Limitations to your tweaking of the SQL query in Transact-SQL:

1) You may not alter the number or sequence of fields in the query expression.

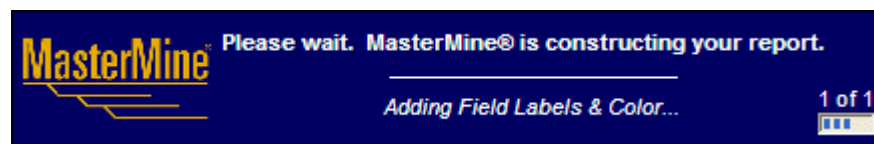
- 2) You may not create an outside join if more than two tables are being joined.
- 3) Generally, your query syntax is constrained to that which is readable by MSQuery as it accesses your SQL or dBase data using the applicable Microsoft Data Access Components (MDAC) ODBC drivers.

Hit “Finish” And The Rest Is Fine-Tuning

When you have specified which part of your GoldMine information you want to see in general, and how to filter it if necessary, hit the “Finish” button. MasterMine will now extract your selected information from GoldMine, gather it into a “pivot table” object in Excel, and present it for your further arrangement and formatting.

This should take only a few seconds per thousand records queried.

Progress Box: MasterMine displays a progress box while creating the report, loading the necessary data from GoldMine and naming field buttons (so far as possible) according to your customized GoldMine setup.



When finished, it tells you where your report has been stored. Click “OK” to begin working with the new report in Excel.

Now the “hard part” is done. To come up with the report you want, you now need to organize and format it as desired.

That’s it! With these few, simple steps, you are now able to extract a large portion of the most “interesting” information from GoldMine.

Here’s where the fun begins!

Once you’ve selected your criteria and hit “Finish”, the data are extracted from GoldMine and presented for further arranging and formatting in your Excel environment.

Before you go on however, consider these thoughts about the selections you make in the MasterMine interface:

- The fewer files and fields that are referenced, the quicker your data refreshes. This is a very important consideration if your data files are large.
- If you are working with more than 100,000 records in your queried files, be sure you have at least 100MB of unused RAM available. Otherwise, data refreshing and re-calculating can be very slow. A sure sign of memory shortage is if your

hard drive seems to be working very hard during a long data loading/refreshing process. It's probably swapping data with your memory, which is a tedious and unnecessary process. Getting more RAM is well worth it.

- The end of this guide includes a handy reference (see page 137) that tells you the fields and functions contained in various GoldMine files.
- Excel 2000 and earlier can display only fields containing fewer than about 9000 unique values. This DOES NOT mean that MasterMine can't be used on your system if you have more than 9000 records in your database. Here are several suggestions for dealing with this limitation:
 1. Get Office XP or higher. Each successive version dramatically raises the memory limits.
 2. Consider that fields with many unique values (like Company, or Contact) can still be accessed in "drill-down" mode. So any time you need a detailed list of companies that meet various criteria, simply double-click on a pivot table segment that targets the records you want to see, and all contact info will be there.
 3. Use filtering criteria (see page 55 above) to limit your overall query LOOSELY around the specific information you want to see. There is plenty of opportunity to further refine your selection once you have the information in your MasterMine workbook. Using filtering criteria up front, however, may help reduce your overall selection to a more manageable level.

Getting Oriented: Report Parts and Features

This chapter orients you to the various parts of a MasterMine report, and to some useful language for talking about it. Understanding these terms will help you to make sense of reporting concepts as discussed in this manual, as well as to discuss problems and solutions with colleagues and MasterMine support staff.

Terminology:

Pivot Tables

The standard unit of a MasterMine report is a “**pivot table**” (trademark of Microsoft Corporation). A pivot table is an analytical structure, built into Excel, that allows the user to quickly and easily rearrange and view data from many angles.

A pivot table is more generically a multi-dimensional “data cube”. Users who master the idea of “cubes” can intuitively understand exactly how moving fields around a pivot table will affect what they see. For the rest of us, the experience of simply “playing” with a pivot table more slowly but effectively gives us a feeling for how a pivot table works.

Pivot tables are extremely convenient for displaying data in any scope, converting immediately from a narrow summary to finest detail. MasterMine leverages this capability and ties it to the capabilities of GoldMine to produce both a powerful analytical tool and a means of managing people, processes and data itself.

Workbooks and Reports

A “**Workbook**” is an Excel file that may contain one or many “**Worksheets**”. The term MasterMine “**Report**” may be used to refer to either a workbook OR one of the worksheets within a MasterMine workbook. It is therefore clearer to say “Workbook” or “Worksheet” to refer to the specific item, rather than a “Report”.

Since “**Report**” is the most common way of referring to MasterMine output, we use it frequently here with the expectation that users will understand in context.

Once a **Report** is created, initially as a single worksheet in a new Excel workbook, it can then be quickly cloned,,tweaked and multiplied into a wide range of derivative “Reports”, some as additional worksheets within the original workbook, and some as

whole new, renamed copies of the workbook. Users, therefore, sometimes think of *every* report as a template of sorts, although the term “template” has a specific meaning in MasterMine.

Templates and Toolkits

A “**Template**” is a model or set of pre-determined parameters against which a **Report** is created. Templates cannot be changed by the user. The reports they create, however, can be infinitely varied. MasterMine comes with more than 125 templates, each of which can be quickly filled with GoldMine data to create a new Report. Since each time a template is used, a different set of fields might be included or a different filter applied. These templates are infinitely re-usable.

Beginning with version 6.0, MasterMine allows users to create new **User-defined Templates**. Creating a new template starts by selecting an existing “basis” template, selecting fields to include and sorting them, then saving the result with a user-specified name. Thereafter, user-defined templates appear alongside standard templates in the MasterMine template finder.

MasterMine “**Toolkits**” are collections of templates for producing a variety of pre-defined reports (workbooks), each one named for its function and designed to anticipate a GoldMine management-related information need. For instance, the “Sales Manager” toolkit contains templates to generate workbooks like “Call Value” and “Past Due Pending Activities”. In turn, each of these workbooks is capable of displaying the targeted information in infinitely many formats, sorts and filters to get at a true picture of your business.

Database Terms

In the modern world, formerly scientific terms like “database”, “field” and “query” have seeped into the language of ordinary people, though usually without full understanding of what they mean. MasterMine attempts to make reporting easy for people who know nothing about databases, but it is helpful to understand how the technical parts of database structure and usage relate to the more common user-understood concepts.

A “**Query**” is a technical instruction to a database specifying the body of data to be pulled from the database into the pivot table for processing. In MasterMine, queries are in the form of Transact-SQL scripts. A single Query returns a “result set” of data, also called a “cache” of data in computer memory, which may provide the basis for one or more pivot tables in a single workbook.

A database “**Table**” is a set of records, all with a consistent structure, containing data that logically belongs together. A database typically contains a set of tables that fit together to form a coherent set of information. The GoldMine tables used by MasterMine (Contact1, etc.) are listed elsewhere in this manual. Each table contains a number of records.

A “**Record**” in GoldMine is considered to be a single “company” or “account” or “contact” unit. The major screen consists of an Account Record that has many ancillary points of data tied to it. In a database context, a main Table called Contact1 contains one record per company. But each company can also have many “records” associated with it, contained in related tables like ContHist (History), Cal (Pending), etc.

In MasterMine we speak of “Account” rather than “record” to refer to a main company contact, in the top part of the GoldMine contact screen. This is because at the database level there are many “Records” associated with each account, namely all of the history records (each line on the History tab is a “record” in this sense), calendar records, supplementary contact records, “detail” records, etc. that comprise the full body of data related to a single “Account”.

A “**Field**” in GoldMine is a single box on the data entry screen into which you can type an item of data. In MasterMine, a “Field” roughly corresponds to one of these boxes, but since MasterMine is reporting across many GoldMine records, each “Field” in MasterMine is really a container for many such “items”.

Field Items in MasterMine are the smallest units of data, comprising the “answers” that get entered into fields in GoldMine. In a MasterMine report, dragging a “Field” into the lower area of the report exposes each “Field Item” contained in the field, along with a corresponding number (either a count of occurrences or a sum of something numeric like dollar amounts) in the data area.

MasterMine Screen Elements

Basic manipulation of MasterMine Pivot Tables is easy and fast, but does require some getting used to. Active users of this Excel feature are relatively few, but developing good pivot table skills can be very helpful in many situations. For more in-depth discussion of PivotTable functionality, we urge you to use the extensive Microsoft Excel[®] help from the Excel menu.

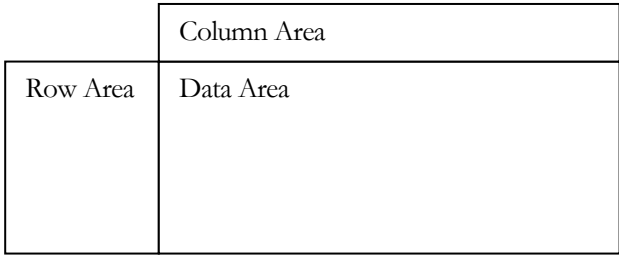
For many, the best way to learn how Pivot Tables function is simply playing with them. Most of the data relationships you want to see can be created by simple dragging and dropping. Don’t worry, you won’t damage MasterMine spreadsheets: you can always close them without saving changes, or go back to the basic MasterMine templates to start over.

Most importantly, remember “Undo”. In most cases, you can undo your last change by hitting Ctrl-Z, or more slowly by clicking “Undo” in Excel’s Edit menu.

Pivot Table Elements

The basic elements of an Excel Pivot Table include Row, Column, Data, Page and Hidden areas, arranged as follows:

Page Area



Hidden "Area"
(All available fields listed on the Pivot Table Field List)

The **Row and Column areas** show field items (the various possible values within a field). Row Area fields create one row per field item.

The **Data area** shows the actual summarized data, usually either a count of items in a field or a summation of the values in a numeric field. The data area must include at least one field, but it may include multiple fields in more complex reports.

The **Page area** includes fields containing data not currently displayed in the table, but which may be dragged into Rows or Columns. Selecting one or many items within a Page field filters what appears in the rest of the pivot table.

The screenshot shows an Excel PivotTable with the following structure:

- Page Area:** Fields like Budget, CreateOn, Page, Contact, and Source are listed in the top-left corner.
- Column Area:** Labeled 'Column Fields' and 'Column Items', it includes C1AccountNo and Territory.
- Row Area:** Labeled 'Row Fields' and 'Row Items', it includes Contact Type and Industry.
- Data Area:** The main table area containing summarized data.
- Pivot Table Field List:** A task pane on the right showing a list of available fields such as Contact, Company, OnMonth, Pre/Post-Demo, Demo, Pre/Post-Sale, FirstSale, OnDate2, ProdRef, SalesRep, and CallMeet On.

		CN	CT	MA	MW	NE	PN	RM	SC
15	Engineering			1		1	1		
16	Food			1	1		2	1	
17	Pharmaceuticals	1		2	2	2	1	2	1
18	Suspect		1	1	1	3	2	3	2
	Engineering			1	4	4	1	2	1
	Food			1	5	2	2	5	1
	Pharmaceuticals	1		5	4	3	5	5	2
	Aviation		2						
24	Engineering							1	
25	Food				1				1
26	Media			2	6	4	5	4	2
27	Pharmaceuticals				1	1			1
28	System Design					8			1
29	Customer					1			
30	Media			1					
31	Pharmaceuticals				1				
32	Past Client			6	4	3	2	5	1
33	Engineering	1			2			2	3
34	Food	1		2	2	3	2		1
35	Media	1		1		1			1
36	Pharmaceuticals							1	2
37	Grand Total		8	30	37	39	23	34	19
								36	28
									254

The **Hidden area** contains all available fields, including additional page fields not displayed on the worksheet. The latter may be added to the table (“unhidden”) by dragging them from the Pivot Table field list to the desired Pivot Table area. Fields appear **bold** in the hidden area if they are also displayed in the pivot table, or normal font if they are not.

Field Buttons in row, column and page areas have a gray background and usually correspond to specific fields in GoldMine database files. Not all GoldMine fields are available in MasterMine templates, but advanced users can add any field or portion of a field. For a full list of available fields, see the GoldMine Database Layout Reference in the back of this manual.

Field Colors

Note that the **Field Button Color** in MasterMine tables reflects the underlying data files from which the fields come. The color scheme is as follows:

Blue – **Contact1**
Red – **Contact2**
Green – **Cal**
Brown – **ContHist**
Pink – **ContSupp**
Orange – **OpMgr**

Items are the contents of fields, and are visible with white backgrounds when their fields are present in the Row or Column areas, or by clicking the list box associated with the field in the page area. Usually an “item” represents a summary of all occurrences of that item in a given GoldMine field.

MasterMine Ribbons in Excel 2007 and higher

With version 7, MasterMine introduced an extensive set of functions, launchable from three “Ribbons”, as Excel’s former toolbars or commandbars are now known. These ribbons provide a wide variety of convenient and powerful tools for report refinement, data manipulation, and active interfacing with GoldMine.

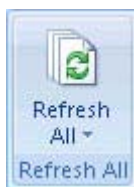
Briefly, the “MasterMine” ribbon is available at all times when a MasterMine workbook is open in Excel. The “MMTools” ribbon is part of the “Pivot Table” submenu, and therefore available only when a cell is selected ON a pivot table. And finally, the “MasterMine Drilldown” menu is available whenever the user has drilled down from a MasterMine pivot table, creating a new detail worksheet which is formatted (automatically) in to a flat Excel table.

The MasterMine Ribbon



Available at any time while a MasterMine workbook is open, this ribbon contains functions that apply in any area, whether pivot table, drilldown, or regular spreadsheet. The functions are arranged in groups, ranging from right to left in the same sequence you would use to create, modify and analyze, then share or deploy a report.

Refresh



Refresh: Re-queries the database and returns current data to the selected pivot table or, if Refresh All is selected, to all pivot tables in the workbook. To specify a single pivot table for refresh (or if the Refresh button appears disabled) you must select a cell ON the pivot table.

“Analyze/Rearrange” Ribbon Group

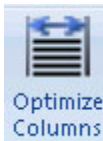
Use this sub-ribbon together with the tools in the MMTools ribbon to organize field items, fields and worksheets, and generally take advantage of the flexibility of your pivot table reports.



Clone Worksheet: Creates a duplicate of the current worksheet at the end of the tab row for the current workbook. Users are expected to use this function frequently while developing custom data analysis workbooks and “dashboards”.



Freeze Panes: Freezes panes on the worksheet so that the top row and column of Pivot Table are the “crux” of the frozen pane. If there are several Pivot Tables and none is selected, user is prompted to select one.



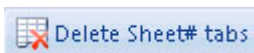
Optimize Column Widths: For selected Pivot Table (or if there is only one Pivot Table) automatically resets column width to accommodate display of all data on the table.



Field list: Toggle visibility of the pivot table field list on the right side of the screen. The field list contains ALL fields available in the query that underlies the pivot table. From the field list, drag any field into the pivot table for display or filtering.

“Clean Up” Ribbon Group

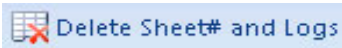
Use the functions in this sub-ribbon to prepare your report for delivery by simplifying the contents to only what is needed.



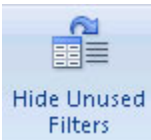
Delete All Worksheets named “Sheet#”: Deletes drill-down sheets still generically named. This helps clean up a report where many drilldowns have been performed.



Delete worksheets named “Log MM-DD-YYYY”: Deletes logsheets created by MMUpdater. During intensive updating, a user may create many Log sheets that are not needed once the job is complete.



Delete all drilldown and Log sheets at once.



Hide unused filters: Remove all fields from the page area that are not being used to filter the report. Fields can be pulled back in as needed from the Pivot Table field list, on the right side of the worksheet.



Page setup: Set page margins, gridlines, column widths, and much more, in preparation for printing.

“Deliver” Ribbon Group

Once you have settled upon an arrangement for your report, or set of reports in a workbook, store it in a location where it can be easily recalled by whoever needs it. Make it easily launchable with a single click, restricted as necessary to prevent loss of data, refreshable against the GoldMine database so that users can immediately get information value without having to change settings or manually refresh the data.



Security: Lock down your report so others can't make unauthorized changes, either to the report layout or to the parameters and definition of the data that get pulled into it.

In the Security dialog, you can set the following:

- Disable access to underlying query

Prevents a user familiar with transact SQL from changing the underlying query, so that only the deliberately allowed data can be accessed.

- Save workbook without data

Saves only the report format and the instructions for querying data, not the data itself, inside the Excel workbook.

- Refresh on open

Sets the report to automatically receive current information at the time the report is opened. If a user attempts to open the workbook in a location where the original data is not available (i.e. away from the network where the SQL server

resides) it will invalidate the workbook until the SQL database is again available and a successful refresh is performed.

- Disable data refresh

Freezes the report as-is, with the currently queried data set.

- Disable access to Pivot Table Settings
- Require user to enter SQL password for each refresh

To password protect your security settings, enter a password in the text box at the top and, when the settings are as you want them, click “Save”. The next time you enter the security dialog, the settings will be invisible until the user enters the correct password.

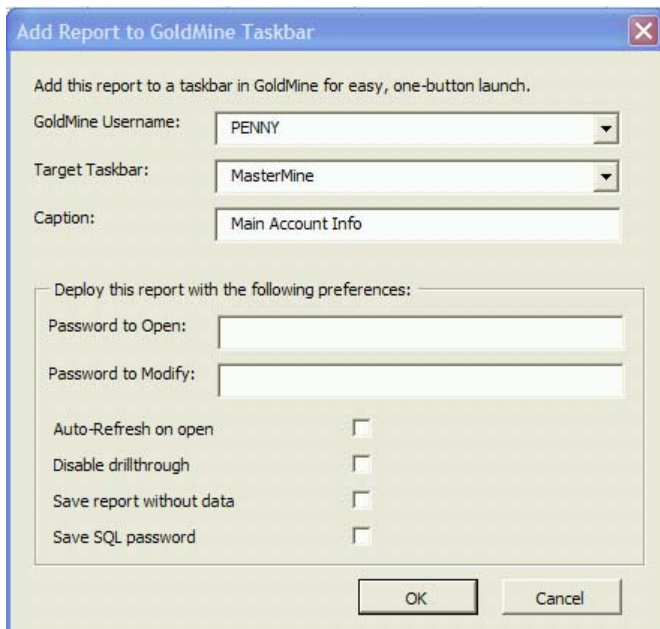
To remove the password, delete the password from the text box before clicking “Save”.

Be sure to save the workbook itself after saving your security settings.

There is no way to retrieve a forgotten password without help from MasterMine technical support.



Share Report: Adds the current report to a GoldMine taskbar for “one-button launch”, either in your own GoldMine or in another user’s. This is the quickest, easiest way to deploy a report for easy, repeated use. Note that other users must have MasterMine licenses to launch these reports.



This dialog allows you to select any GoldMine user whose taskbar will have a button which will launch the current workbook at will. An existing taskbar may be selected or a new one created. The Caption is the label which will accompany the new icon on the GoldMine taskbar.

Set security and convenience parameters in the lower frame of the dialog as follows:

Auto-Refresh on Open: Causes the report to refresh against GoldMine’s data as the report is opening. Most effective when database is small enough to allow data loading without significant delay.

Disable Drill-Through: Prevents the user from

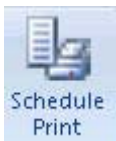
double-clicking on data items to see underlying data.

Save Report Without Data: Vastly reduces the size of saved files (especially important if file is to be e-mailed to another user). Also promotes security by preventing storage of database data within the Excel workbook.

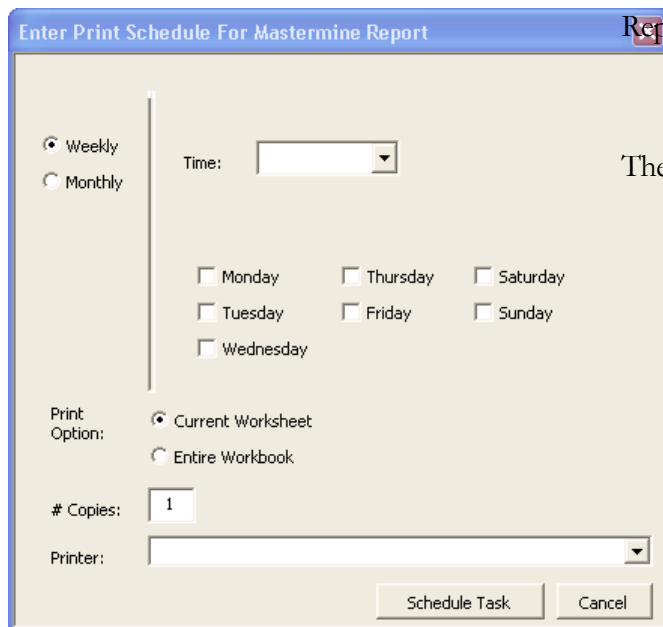
Save SQL Password: To avoid requiring users to enter a valid username/password combination every time their report refreshes against the SQL database, you may elect to save the SQL password with the report. **IMPORTANT NOTE:** the SQL password is not encrypted when stored within the Excel workbook, so security-conscious users may wish to avoid saving the SQL password.



Snapshot/Archive: Take a snapshot of the current worksheet, with all pivot table attributes “frozen”. This is a great way to create an archived version of the worksheet within the same workbook. You may also use this to export the current sheet to a new workbook that can be transferred to non-MasterMine users.



Schedule Print: Uses Windows Scheduler to schedule a report to automatically print while unattended. On a pre-set schedule, the report automatically launches, refreshes and prints to the designated network or local printer.

A screenshot of a Windows dialog box titled "Enter Print Schedule For Mastermine Report". The dialog has a blue title bar and a light beige background. It contains several sections: "Print Option:" with radio buttons for "Weekly" (selected) and "Monthly"; "Time:" with a dropdown menu; a section for days of the week with checkboxes for Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday; "Print Option:" with radio buttons for "Current Worksheet" (selected) and "Entire Workbook"; "# Copies:" with a text box containing "1"; and "Printer:" with a dropdown menu. At the bottom are "Schedule Task" and "Cancel" buttons.

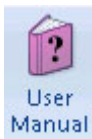
Reports may be scheduled to run weekly or monthly. Schedule the current worksheet, or the whole workbook, to print on a regular basis.

The computer on which the item is scheduled must be left on during the time of printing. If a network printer is to be called, be sure that the Windows user on the scheduling computer (the one where the schedule item is set up) has administrative access to the selected network printer.

“Application” Ribbon Group



Open Report: Opens another MasterMine report within the same instance of Excel currently being used. This allows users to transfer tabs and copied text, including whole pivot tables, between masterMine workbooks for easy sharing. As a means to aggregate a series of reports from various selected workbooks, this function is very useful in creating Digital Dashboards.



User manual: Opens the MasterMine for GoldMine user manual as a PDF document. You must have Acrobat Reader installed on the workstation.



About MasterMine: Displays current version and location information about MasterMine, GoldMine, and Excel.

The MMTools Ribbon



The MMTools ribbon is available whenever you have a MasterMine workbook open in Excel AND a cell is selected on a pivot table. The functions on the MMTools Ribbon in Excel provide easy shortcuts to manipulate your pivot tables and to format your data. These functions build upon existing Excel capabilities to make Pivot Tables even more user-friendly and more integrated with GoldMine at the same time.

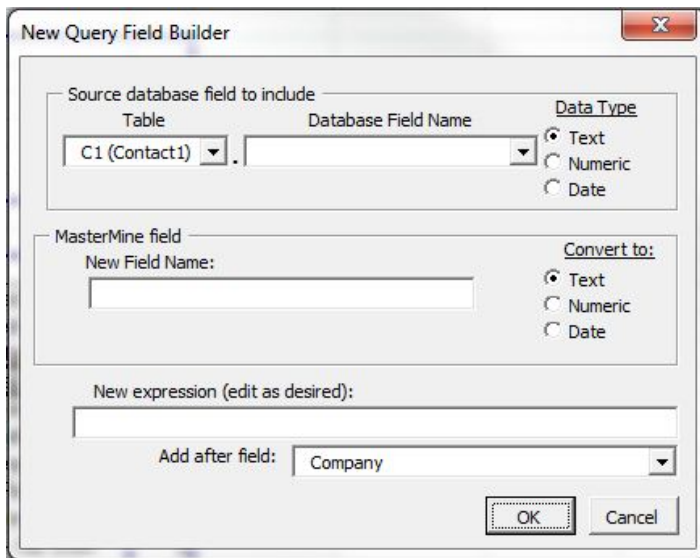
“Active Report” Ribbon Group

These functions are available to modify the current report.



Add Field: Allows the user to add a GoldMine field to the existing report, although it was not included in the original query when the report was built. The restriction is that only fields in tables that are already present in the report are allowed.

In the first field, select the table from which the desired field will be added, then select the specific field under Database Field Name. In most cases, the data type of the source field will default to the correct one, and the other fields, new field Name” and “New expression” will populate automatically with the defaults from the MasterMine toolkits.



Field Name” will be the default name of the field in your report.

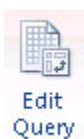
Selecting an alternative option under “Convert to” automatically modifies the “New Expression” to provide appropriate formatting of the incoming data. For example, if you bring in a GoldMine field that contains mostly numbers, and you want that data to be treated only as numbers in your report for summing, propering sorting, grouping, etc., clicking “Numeric” will apply functions to transform the field as needed.

New Expression may be altered in any way that conforms with the rules of Transact-SQL expressions, including the use of MasterMine user-defined functions. If you make erroneous changes, such as a syntax error, the refresh will fail and the query will revert to its original status without the new field.



Delete Field:

Removes the selected field (i.e. the field on the pivot table that has a cell selected on it) from the pivot table’s underlying query.



Edit Query:

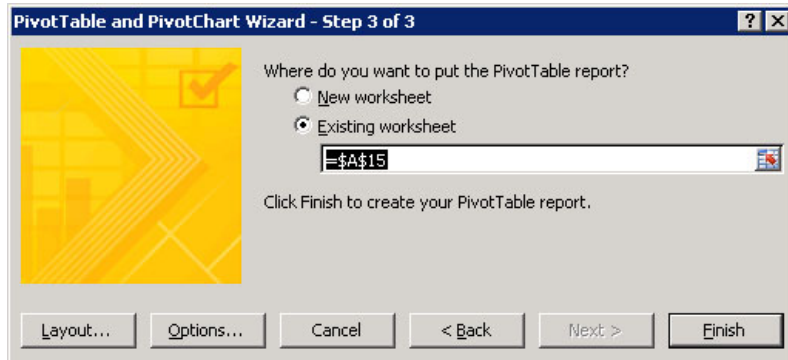
If you wish to alter the underlying query using MSQuery, click the Edit Query button to go backwards through the Microsoft PivotTable and PivotChart Wizard. This brings you, perhaps surprisingly to “Step 3 of 3” of the wizard. This is because your pivot table

already exists, along with its underlying query, so you will be modifying it rather than building a new one from scratch.

Click “<Back” to open “Step 2 of 3”, then click “Get Data...” to bring up MSQuery.

Many users will see a message that says “This query cannot be edited by the Query Wizard.” The Query Wizard is a simplified querying tool that is too simplistic to handle the existing query, which causes this message to be raised.

Click “OK” to launch MSQuery, the built-in graphical interface that Office provides for the purpose of modifying Transact-SQL.



Note that MasterMine uses some syntax within its queries that provides some complex relationships in the data, while at the same time making graphical management of the query in MSQuery impossible. In order to prevent MSQuery from automatically attempting to “repair” the query (which would actually invalidate it), MasterMine surrounds the alias of the first field with square brackets, thus

disabling both the automatic repair and graphical query management.

If your query is too complex in this way to be presented graphically, you can still modify the query manually by clicking the “SQL” button under the menu bar.

For more on editing the underlying query, see “Modify Underlying Query”, Chapter 6.



Show Stats:

In addition to information about the pivot table overall, Stats includes background on the selected pivot field. Again, this helps a user understand the source of data in the report.

Here the user can determine the type of underlying data (usually SQL or dBase), the date the query was last refreshed against the GoldMine data, the number of records in the query and memory size of the query.

The user can also see how many data caches are contained in the workbook and which one is being used by the current pivot table. This can be significant if there are memory issues or if the report is a fairly complex one containing many pivot tables with different data sources (i.e. different underlying queries).

9	CreateOn	(All)	
10	Title	(All)	
11			
12	Potential Amount	User ID2	User ID
13		West	PETE PETER ROB Grand Total
14	Code		
15	A	768	
16	AAA	2	
17	B	34	
18	BMP	2	
19	C	39	
20	EUO		
21	Quote Amount	9	
22	SLS		
23	X	31	
24	Y	5	
25	YR2	1	
26	Z	5	
27	(blank)	10	
28	Grand Total	909	
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			

Statistics on currently selected objects

Current Workbook
Worksheets: 3
Pivot Tables: 2
Pivot Caches: 1
>Show Caches Merge Caches

Selected PivotTable
Data Type: SQL
Last Refresh: 9/7/2012 4:46:16 PM
Records Queried: 537
Query Size: calculate
CacheIndex: 1 of 1 in this workbook

Selected PivotField
Display Name: Code
Field Name: Activity_Code
Field Expression: Rtrim(CA.ACTVCODE)

Selected Item: Quote Amount (QTE)

OK

There is also information about the field currently selected on the pivot table, which can help the user trace a value that appears in the report to the field in GoldMine that contains it. In the image here, the user selected the pivot item “Quote Amount” within the field “Code” when calling up the information display.

The Stats dialog reveals that the GoldMine field “Activity Code” has a local name of “Code” in this report. The latter may be a more meaningful label in the context of the current report, but it helps to know what field it represents in GoldMine. Likewise, the item “Quote Amount” is a report label for the value “QTE” in the GoldMine “Activity Code” field.

“Active Field” Ribbon Group

These functions apply to the selected field in the pivot table.



Purge Selected Field: Purges the field of inactive items. The pivot table field “remembers” all items that have ever appeared in a field. Over time, adding new data, and changing or deleting old data in your GoldMine database can cause the item list in a field to include many obsolete items. We recommend purging old values that are no longer valid, especially after doing significant data corrections.

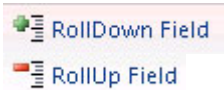


Search Field Content: Search a field for specific elements or words. All field items in the group containing the sought elements are grouped and moved to the top of the field containing it. This is an excellent way to search through large volumes of data for specific lost items, or to efficiently pull together variations on a particular name or character string for processing or reporting.

MasterMine offers both a simple search dialog, and a more advanced one for searches that require wildcards and such. See “Content Search” page 101.



Apply Filter Across Tabs: Fields in the page are used to filter a report. For any filter set in the Page area (top of the page), select the cell containing that filter and click this button to apply the same filter across all pivot tables in the workbook that have the same field in the Page area. For example, if a sales report is opened and refreshed monthly, users may need to go through each tab setting the “OnMonth” field to the current month to ready the report ready for use. With this function, set the OnMonth field to “May” on the first page, then click this button to set all other pivot tables to “May” as well.

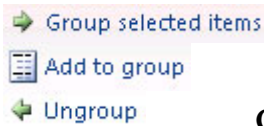


RollUp/RollDown: Show or hide detail for the selected field. Any field that is further broken down by another field to the right (in rows) or below it (in columns) can selectively “roll up” or “roll down” all lower levels of detail. Similar to clicking the + or – next to each and every item within that field, these functions provide a convenient way to show only as much detail as is needed while leaving greater detail immediately available.



Subtotal On/Off: Toggles subtotalling for the selected field.

“Group” Ribbon Group

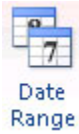


Grouping is a key set of functions for managing, analyzing and reporting on your database. Grouping is explained in depth further below on page 101. The ribbon buttons provide enhancements to native Pivot Table functionality to help you manage groups and group names across MasterMine tabs.

The new “Add to group” function in MasterMine version 7 provides an important convenience when adding an item that was overlooked during a previous, long manual search through a list for items belonging together in a group.

“Date Field Functions” Ribbon Group

Date functions make it easier to group and create various date-centered calculations using any date field in GoldMine.



Date Range: Convert any date field into a convenient set of fields, like year, month, and date, from which calendar groupings can be easily made, or filters, or well-grouped month-by-month or quarter-by-quarter reports. See the extended discussion of “Date Ranges” below on page 105.



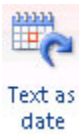
Fiscal Year: Converts any date field to return the fiscal year within which that date falls. Select the date field that will be the “basis” for the fiscal year field. Click the “Fiscal Year” button and specify the first calendar date of each year’s Fiscal Year. A new field is created, accessible by dragging it into the report from the Pivot Table Field List dialog.



Week Grouping: Creates a new field derived from the selected date field, which contains all weeks from the earliest to the latest represented in the queried date fields. If “DateField” is the base field, the newly created field will be named “DateFieldWeek”, in the Pivot Table Field List after this function creates it.



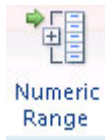
Age from today: Returns a field, called “FieldNameAge”, which contains the number of days between the selected date and “today”, the date on which the report is run. This allows for easy 30-60-90 analysis by grouping (see next section) the numerically formatted field.



Text as date: Returns a true date version of a field that is stored as normal text in the GoldMine database. This function applies necessary expressions to convert the text, if possible into a true “date” field for reporting and particularly grouping purposes. Start by adding the text/date field to the query at report “Create” time, or by using “Add Field” to include it. Drag the field into the row area of the report, then click “Text as date” to create a new, “date version” of the field.

“Numeric Field Functions” Ribbon Group

Numeric functions make it easier to group, sort and create numerical fields, complete with calculations and “sums”.



Numeric Range: Convert a field or numbers into an ordered set of values, featuring “High/Low” limits, and evenly grouped numeric segments (i.e. 1-30, 31-60, 61-90). If you’re trying to make sense of thousands of numeric values, or want to create a simple graph that aggregates these values into a few “levels”, the numeric range function is invaluable.

Number formats by field:

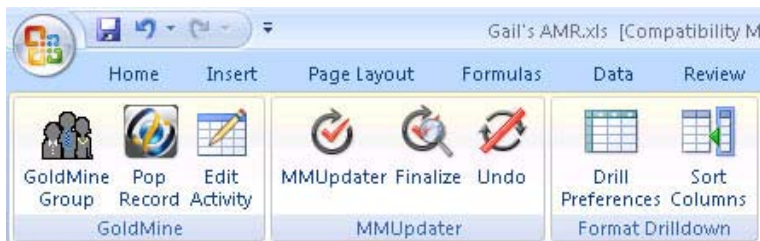
"\$" % , ←.0 .00 →.0

Number formats: Select any numeric value in a pivot table and use these buttons to format all parallel field items or data area “aggregations” of numbers. This powerful tool makes it unnecessary to select whole ranges of cells containing number (which might change in shape and size with refresh) in order to format them. Just select a single item within a field to apply the change to all values in the field.



Text as numeric: Returns a true numeric version of a field stored in the database as text data. Converting to numeric for reporting purposes enables grouping and sorting by numeric values which would otherwise be difficult or impossible.

The MasterMine Drilldown Ribbon



This ribbon appears under Excel Table Tools when you’ve drilled down from a pivot table (double-clicked on a data area number) to create a drilldown sheet. These functions help you interact directly back with GoldMine, or to format the drilldown itself.



GoldMine Group: Build a group in GoldMine from the selected rows on the drilldown sheet. If only a single cell is selected, MasterMine assumes the entire sheet of records is to be added to the group. Select multiple rows or simply cells in a single column.

Use GoldMine groups to track campaigns, send mass e-mails, do global replaces, and many other valuable cross-account activities in GoldMine.



Pop
Record

Pop Record: Switches to GoldMine and loads the account record that corresponds to the currently selected row. This action is the same if you double-click on any cell in the target row on the drilldown sheet.



Edit
Activity

Edit Activity: For reports that contain pending or history records, this function switches control to GoldMine, loads the account record, AND opens the selected activity record for editing.



MMUpdater

MMUpdater: For the selected cells (or entire column), push the highlighted data into GoldMine records. This extremely powerful utility is an optional add-on to MasterMine, available by separate licensing. Full instructions on MMUpdater are in Chapter 9, Data Management, under “MMUpdater”.



Finalize

Finalize: On an MMUpdater Logsheet, after a “test run” that created the log, commit the changes on the logsheet to GoldMine.



Undo

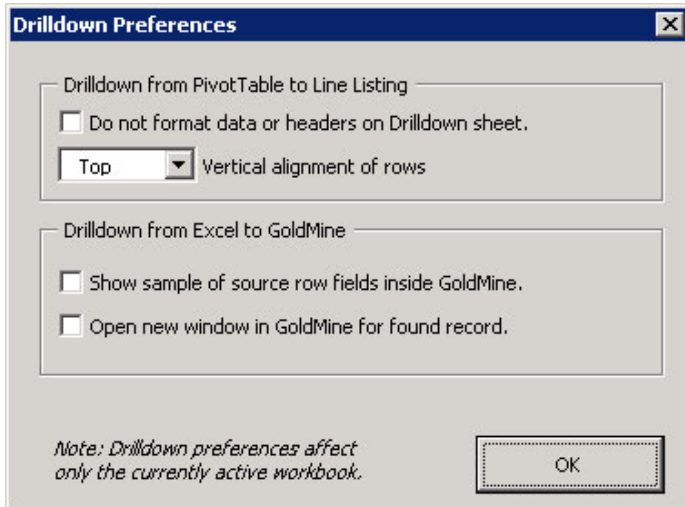
Undo: Return updated fields on an MMUpdater Logsheet to their original values. After updating GoldMine, whether by finalizing a test run or after a non-test run of MMUpdater, click “Undo” to reverse the changes made to GoldMine. (This undo process is not a true return to the status before the update, in that GoldMine transaction logs will reflect both the change away and the change back to the original value).



Drill
Preferences

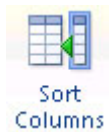
Drill Preferences: Sets parameters for automatic formatting when a new drilldown sheet is created or when drilling to GoldMine (popping the GoldMine record). Selections are:

- **“Do not format data or headers on drilldown sheet”.** When the user double-clicks any Data area element, a new “drilldown sheet” is created, showing in rows each record that comprises the element. MasterMine adds some formatting to this native Excel process by passing through fieldname and label substitutions the user has added to the pivot table. Checking this box disables this feature for the current workbook.



- **Vertical alignment of rows:** When the report contains notes or other very long data that wraps, other columns in the same row must align to the top, center, or bottom of their respective cells. Set the default here.
- **“Show sample of source row fields inside GoldMine.”** When drilling through to GoldMine (by double-clicking anywhere in a row of a drilldown sheet to “pop” the underlying record), this feature shows the first eight fields of the source row.

- **“Open new window in GoldMine for found record.”** By default, drilldown causes the currently displayed record in GoldMine to change to that of the drilled-down row, potentially “losing” the user’s place in GoldMine. This option opens a new contact window in GoldMine so that the user can easily go back to the previous contact. (Applies only for GoldMine versions 6.x and lower.)



Sort Columns: Opens a dialog that facilitates moving columns of data left or right on the drilldown sheet. Optionally, click “Save” to make the new column order permanent for all future drilldowns from the same pivot table.

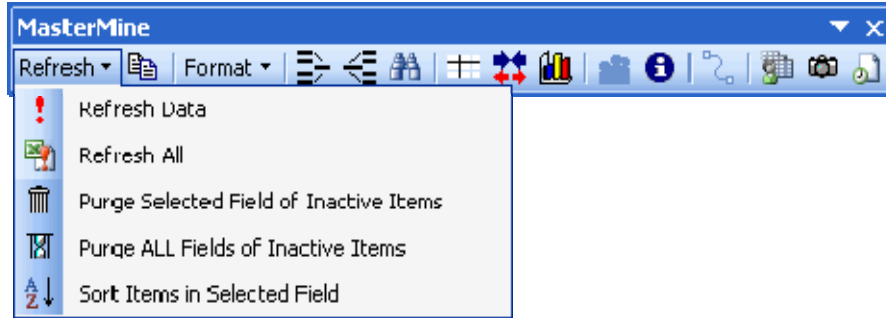
The MasterMine Toolbar (Excel 2003)

Excel 2003 does not have “ribbon” technology. A MasterMine toolbar like the one below automatically appears in Excel when a MasterMine workbook is created or opened. This toolbar contains significantly fewer functions than that which is available in Excel 2007 and higher.

Here is a detailed look at the functions built into the MasterMine toolbar.

Refresh Data

The Refresh submenu gives you several choices to refresh your Pivot Table data.



Simple Refresh: Re-query the underlying data to refresh report.



Refresh All: Refresh all pivot tables in the current workbook.



Purge Selected Field: Purges the field of inactive items. The pivot table field “remembers” all items that have ever appeared in a field. Over time, adding new data, and changing or deleting old data in your GoldMine database can cause the item list in a field to include many obsolete items. We recommend purging old values that are no longer valid, especially after doing significant data corrections.



Purge All: Purges ALL fields of Inactive Items. Report-wide purge that, for systems with slow processors or in the case of very large databases, may take considerable time.

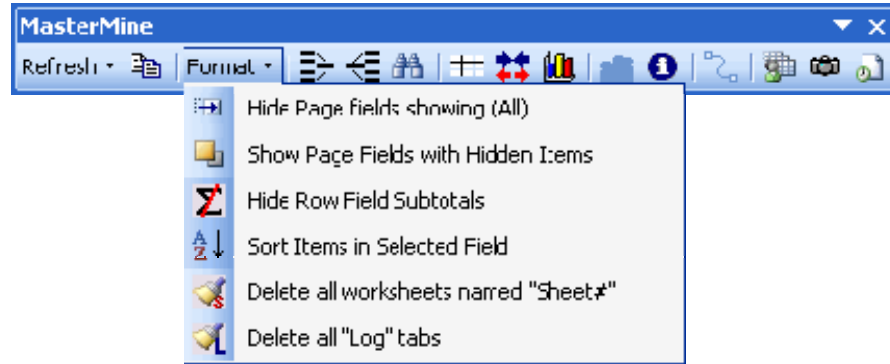


Sort Field and Refresh: Sorts items in the selected field: After initial query, each new value for a field is added at the end of the list. This function re-establishes alphabetical order for the selected field.



Clone Report: Creates a duplicate of the current worksheet at the end of the tab row for the current workbook. Users are expected to use this function frequently while developing custom data analysis workbooks and “dashboards”.

Formatting Submenu



Hide Page fields set to show “(All)” items. Too many fields in the Page area of a pivot table can be visually confusing and cluttered. This option quickly moves all unused Page fields to the Pivot Table field list. These fields can be easily retrieved by dragging-and-dropping back into the report from the PivotTable field list.



Show Page Fields With Hidden Items: Shows a list of Page fields that contain hidden items. Page fields containing “hidden” items may prevent records containing those items from showing in the display below. This is determined by whether the table option to “Subtotal Hidden Page Items” is turned on or off.



Hide Row Field Subtotals: Hides subtotals for all fields in the Row area of the pivot table. This option is used if many fields have been pulled into the report to create a “line listing”-type report. In this case, subtotalling by every field unnecessarily complicates the report.



Sort Field Items: Sorts items in the selected field in ascending alphabetical order by contents of the field.



Delete All Worksheets named “Sheet#”: Deletes drill-down sheets still generically named. This helps clean up a report where many drilldowns have been performed.



Delete worksheets named “Log MM-DD-YYYY”: Deletes logsheets created by MMUpdater. During intensive updating, a user may create many Log sheets that are not needed once the job is complete.

Other Toolbar Buttons:



Group Field Items: This button groups selected field items and creates a new field in which the new group is one item. Many enhancements on this item make this the

preferred method of grouping compared to Excel's native "group" function. See "Grouping Field Items" page 101.



Ungroup Field Items: Ungroups selected group. Same as PivotTable's normal Ungroup function.



Search Field Items: Search a field for specific elements or words. All field items in the group containing the sought elements are grouped and moved to the top of the field containing it. This is an excellent way to find lost items, as well as to group large numbers of records according to content. See "Content Search" page 101.



Freeze Panes: Freezes panes on the worksheet so that the top row and column of Pivot Table are the "crux" of the frozen pane. If there are several Pivot Tables and none is selected, user is prompted to select one.



Optimize Column Widths: For selected Pivot Table (or if there is only one Pivot Table) automatically resets column width to accommodate display of all data on the table.



Chart: For selected Pivot Table (or if there is only one Pivot Table), creates a simple chart for all data and innermost row and column of labels. Excludes grand totals automatically. Users need to further customize the chart by using standard Excel charting techniques.



Pivot Query Information Display: Shows or hides the MasterMine Pivot Query Information Display for the current worksheet.

The MasterMine Pivot Query Display

The MasterMine Display Dialog gives technical information about the pivot table you are using and the data query that underlies it. You can use this information to better control how your pivot table displays information, and to investigate connections between what you see in the report and what you see in GoldMine itself.

The Display dialog indicates the sources and criteria for the data that were queried to create the PivotTable on the sheet. These criteria are set at the time the worksheet is created, and may be changed by an advanced user in MS Query via this dialog.

The Display is useful as a reminder of the source data being analyzed. As such, it helps prevent misinterpreting reports by giving background information that helps you trace the appearance of certain data in your report back to specific records in GoldMine.

The Display has six tabs to present different aspects of the pivot table:

Statistics

In addition to information about the pivot table overall, Stats includes background on the selected pivot field. Again, this helps a user understand the source of data in the report.

Here the user can determine the type of underlying data (usually SQL or dBase), the date the query was last refreshed against the GoldMine data, the number of records in the query and memory size of the query.

The screenshot shows the MasterMine Pivot Table Control dialog box with the 'Stats' tab selected. The dialog box displays the following information:

Selected PivotTable	
Data Type:	SQL
Last Refresh:	8/19/2008 4:00:57 PM
Records Queried:	9,442
Query Size:	1,180 KBytes
CacheIndex:	1 of 1 in this workbook

Selected PivotField	
Display Name:	Call Result
Field Name:	Result_Code
Selected Item:	Completed (COM)

The background shows an Excel spreadsheet with a pivot table. The pivot table has 'OnYear' as the row field and 'Call Result' as the column field. The data is as follows:

OnYear	Call Result
2001	1
2002	
2003	
2004	3
2005	23
2006	13
2007	7
2008	21
Grand Total	68

The user can also see how many data caches are contained in the workbook and which one is being used by the current pivot table. This can be significant if there are memory issues or if the report is a fairly complex one containing many pivot tables with different data sources (i.e. different underlying queries).

There is also information about the selected field on the pivot table, which can help the user trace a value that appears in the report to the field in GoldMine that contains it. In the image here, the user selected the pivot item "Completed"

within the field "Call Result" when calling up the information display. The Display box reveals that the GoldMine field "Result Code" has a local name of "Call Result" in this report. The latter may be a more meaningful label in the context of the current report, but it helps to know what field it represents in GoldMine. Likewise, the item "Completed" is a report label for the value "COM" in the GoldMine "Result Code" field.

The screenshot shows the MasterMine Pivot Table Control dialog box with the 'Drilldown' tab selected. The dialog box displays the following preferences:

Drilldown from PivotTable to Line Listing

- Do not format data or headers on Drilldown sheet.

Drilldown from Excel to GoldMine

- Show sample of source row fields inside GoldMine.
- Open new window in GoldMine for found record.

Note: Drilldown preferences affect only the currently active workbook.

Buttons: OK, Close

Drilldown

Set user preferences to determine how different aspects of drilldown work.

"Do not format data or headers on drilldown sheet". When the user double-clicks any Data area element, a new "drilldown sheet" is created, showing in rows each record that comprises the element. MasterMine adds some formatting to this native Excel process by passing through fieldname and label substitutions the user has added to the pivot table.

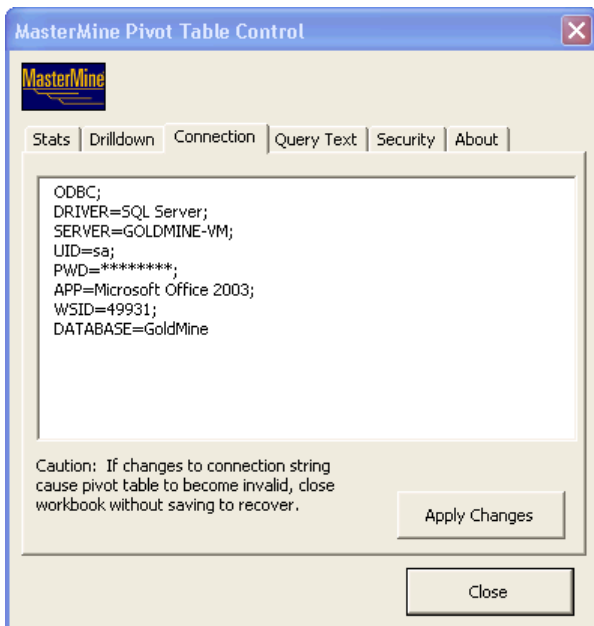
Checking this box disables this feature for the current workbook.

“Show sample of source row fields inside GoldMine.” When drilling through to GoldMine (by double-clicking anywhere in a row of a drilldown sheet to “pop” the underlying record), this feature shows the first eight fields of the source row. This is useful, especially if you drilled down from an Activity Report, to remind the user which pending or history activity to bring up.

“Open new window in GoldMine for found record.” By default, drilldown causes the currently displayed record in GoldMine to change to that of the drilled-down row, potentially “losing” the user’s place in GoldMine. This option opens a new contact window in GoldMine so that the user can easily go back to the previous contact.

Connection

The connection string defines the location of the reported GoldMine data, as well as driver information. A user may change this information, for instance, if the SQL database name or server location is changed.



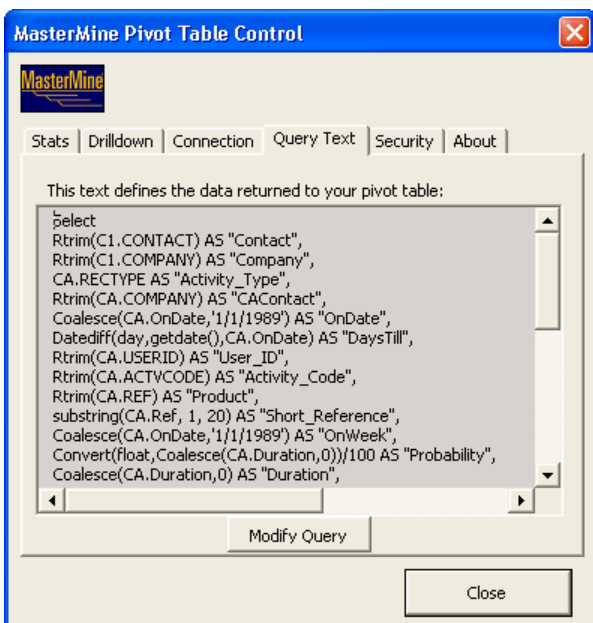
Caution: Invalid changes to the connection string are not trapped, and may corrupt the pivot table and render it unrefreshable. In this event, immediately attempt to repair the connection string, or close the workbook without saving changes, in order to preserve the report.

Note that if the SQL password is saved in your pivot table, it is obscured by ‘*****’ in the Connection box. You may enter a new username/password combination here if desired by turning on SQL password saving in “table options”. The syntax for the password line is:

PWD=*password*; Where *password* is the SQL password and the line terminates with a semicolon.

Changing Data Connection Strings: Note that changing the DATABASE name here may not fully accomplish a “transfer” of your report to a new server/database combination. The database reference may also be contained in the Query Text, which must be updated on the following tab. In many cases, it is not possible to update both the SQL Server name AND the Database references simultaneously. Therefore, we recommend removing explicit database qualification from the Query Text first, then making changes to the SERVER and DATABASE parameters on the Connection tab.


In general, it is a good practice when moving a GoldMine database from one server to another to avoid changing the

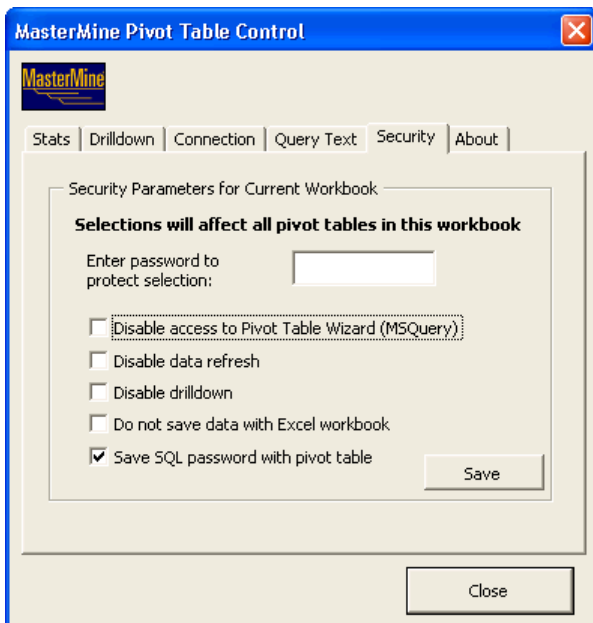


database name. This will simplify updating existing MasterMine reports to use the new data location, because you will need to change the reference only to the server here.

Query Text

The entire Transact-SQL statement (Query) that underlies the pivot table may be viewed and analyzed, but not altered, within the Query Text tab. Users who know SQL expressions can see precisely what data transformation, if any, a field has undergone prior to being presented in the MasterMine report. Most MasterMine fields include some type of formatting, error trapping or other data transformation, so it is helpful to be able to view the expression that underlies a field here.

If you wish to alter the underlying query using MSQuery, you can hit the Modify Query button beneath the query display OR hit the “Query Wizard” button () on the Excel PivotTable toolbar while a field ON the pivot table is selected. (see “Modify Existing Query”, Chapter 6)



Note that if you hit this PivotTable toolbar button and the cursor is not on a PivotTable, the PivotTable Wizard will attempt to create a new table with a new query.

Security

To prevent tampering or to disallow access to sensitive data in GoldMine, the report designer may disable and/or password-protect certain capabilities. Enter a password to prevent other users from altering the report:

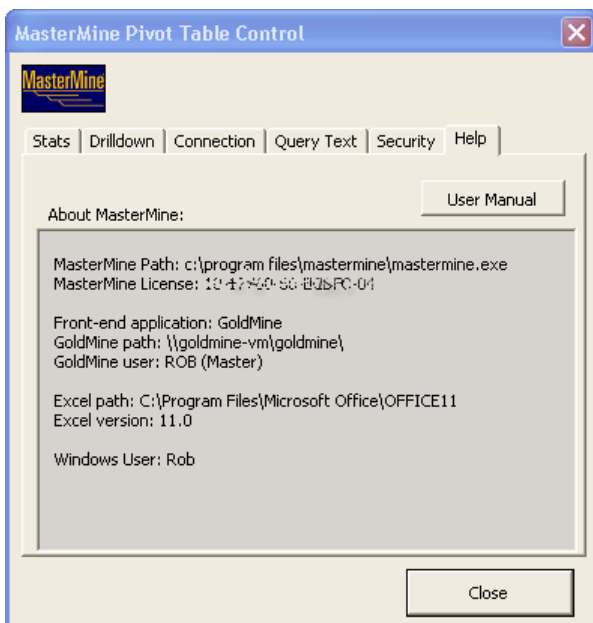
Disable access to Pivot Table Wizard (MSQuery): Prevents users from tampering with the underlying query, thereby gaining access to data they may otherwise be curtailed from in GoldMine. See “Working With MS Query®” chapter 6.

Disable data refresh: Prevents users from updating the report with current GoldMine data.

Disable drilldown: Prevents users from double-clicking on data area numbers to see the underlying information in a “line-listing” format.

Do not save data with Excel workbook: Reduces size of MasterMine workbooks to as little as a few KB. Also prevents GoldMine data from being stored within the report, thereby increasing security of your data.

Save SQL password with pivot table: A pivot table may have the SQL login data, including password, saved with it when the workbook is saved. Microsoft warns that saving your SQL



password is not entirely secure, since hackers can open an Excel workbook to see a password stored within it.

Help

The “Help” tab inside the Query Display provides access to MasterMine’s underlying information, in the “About MasterMine” text window, as well as a link to this User Manual. Click on the “User Manual” to launch this manual as a .PDF file. You must have Acrobat Reader installed on the workstation.

More Toolbar Buttons



GoldMine Group: Create GoldMine group from all rows listed in “Drill-Down” screen. This button is enabled only when viewing a “drill-down” screen.



Add to GoldMine Taskbar: Adds the current report to a GoldMine taskbar for “one-button launch”, either in your own GoldMine or in another user’s. This is the quickest, easiest way to deploy a report for easy, repeated use. Note that other users must have MasterMine licenses to launch these reports.

This dialog allows you to select any GoldMine user whose taskbar will have a button which will launch the current workbook at will. An existing taskbar may be selected or a new one created. The Caption is the label which will accompany the new icon on the GoldMine taskbar.

Add Report to GoldMine Taskbar

Add this report to a taskbar in GoldMine for easy, one-button launch.

GoldMine Username: PENNY

Target Taskbar: MasterMine

Caption: Main Account Info

Deploy this report with the following preferences:

Password to Open: [Text Box]

Password to Modify: [Text Box]

Auto-Refresh on open

Disable drillthrough

Save report without data

Save SQL password

OK Cancel

Set security and convenience parameters in the lower frame of the dialog as follows:

Auto-Refresh on Open: Causes the report to refresh against GoldMine’s data as the report is opening. Most effective when database is small enough to allow data loading without significant delay.

Disable Drill-Through: Prevents the user from double-clicking on data items to see underlying data.

Save Report Without Data: Vastly reduces the size of saved files (especially important if file is to be e-mailed to another user). Also promotes security by preventing storage of database data within the Excel workbook.

Save SQL Password: To avoid requiring users to enter a valid username/password combination every

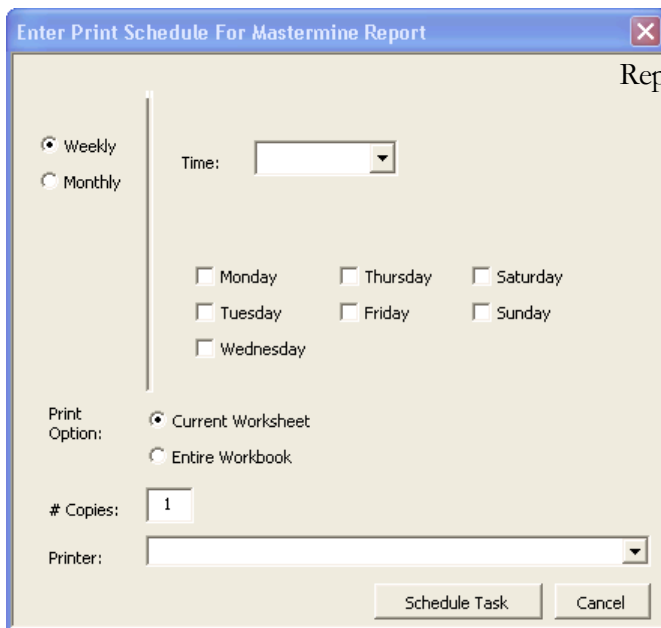
time their report refreshes against the SQL database, you may elect to save the SQL password with the report. **IMPORTANT NOTE:** the SQL password is not encrypted when stored within the Excel workbook, so security-conscious users may wish to avoid saving the SQL password.



Snapshot/Archive: Take a snapshot of the current worksheet, with all pivot table attributes “frozen”. This is a great way to create an archived version of the worksheet within the same workbook. You may also use this to export the current sheet to a new workbook that can be transferred to non-MasterMine users.



Print Scheduler: Schedule a report to automatically print while unattended. On a pre-set schedule, using Windows Scheduler, the report automatically launches, refreshes and prints to the designated network or local printer.

A screenshot of a Windows dialog box titled "Enter Print Schedule For Mastermine Report". The dialog has a blue title bar with a close button (X) in the top right corner. The main area is light beige. On the left, there are two radio buttons: "Weekly" (selected) and "Monthly". Below these is a "Time:" label followed by a dropdown menu. In the center, there are seven checkboxes for days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. Below the days is a "Print Option:" section with two radio buttons: "Current Worksheet" (selected) and "Entire Workbook". Below that is a "# Copies:" label followed by a text box containing the number "1". At the bottom left is a "Printer:" label followed by a dropdown menu. At the bottom right are two buttons: "Schedule Task" and "Cancel".

Reports may be scheduled to run once, weekly or monthly. Schedule the current worksheet, or the whole workbook, to print on a regular basis.

Formatting Reports

Once the MasterMine “Create Report” dialog has been used to extract your GoldMine information into Excel, the genius of working with data in a pivot table becomes immediately apparent. You can now shape and organize your data on the screen with immediate results, without the usual procedure of going back and forth to a “report designer” or a wizard.

In this chapter, we’ll give you the basics for organizing data on the page, and an introduction to some tools added by MasterMine to the Excel interface that make using pivot tables together with GoldMine data and built-in features a powerful combination.

Moving Fields Around

A “drag-and-drop” involves simply left-clicking on the field you wish to move, and holding the clicker button down while you move the mouse to the target area for the field, then dropping the field by releasing the clicker.

As you drag a field in a pivot table, notice how the mouse icon changes to a “schematic” of the pivot table itself, with the highlighted area reflecting the area of the pivot table where your mouse is hovering.

Letting go of the clicker will “drop” the field into the pivot table area corresponding to the highlighted area in the mouse icon.

(The rest of this manual assumes you know the names of the areas in a pivot table. If you are not familiar with the areas of a pivot table and how they relate to data layout, please refer to “Pivot Table Elements” on page 63.)

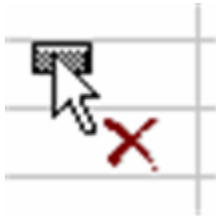
In this example, the Company field is being dragged, and is hovering over the Page area of the pivot table. Therefore, the upper part of the mouse icon is highlighted in blue. Notice also that a “fuzzy line” appears between the

2		
3	Budget	(All) ▼
4	CreateOn	(All) ▼
5	Stage	(All) ▼
6	Territory	(All) ▼
7	Contact	(All) ▼
8	Company	(All) ▼
9	Industry	(All) ▼
10	State	(All) ▼
11	Source	(All) ▼
12		
13	C1AccountNo	
14	Contact Type	Total
15		24
16	Suspect	112
17	Prospect	58
18	Customer	3
19	Past Client	57
20	Grand Total	254
21		



State and Source fields, indicating that the Company field would be located between these fields if the user were to drop it.

Red X: If your mouse icon changes to a “Red X” instead of the pivot table schematic as you drag your field, it means that your mouse has moved past the area covered by the pivot table and instead is hovering over the raw spreadsheet.



Dropping the field at this point removes it from the pivot table entirely. You can retrieve the field at any time, however, from the Hidden Area (Pivot Table Field List) which appears when you click anywhere on the pivot table and the Field List is turned on.

To turn on the pivot table field list, right-click on any cell on the pivot table, and click “Show Field List” at the bottom of the short menu.

By dragging and dropping fields to different areas of your pivot table, you can create all the basic reports you need. Some additional organizing and formatting is desirable, but this one simple skill gets you most of the way to a finished report in seconds.

Note: This example is drawn from an Excel 2003 environment. If you have another version, your environment may vary slightly from this one, so try it on your own to see the differences.

Report Types

You can create an infinite variety of reports in MasterMine. Here are some basic report types and steps to create them.

Summary Report

1		
2		
3	Budget	(All) ▼
4	CreateOn	(All) ▼
5	Stage	(All) ▼
6	Territory	(All) ▼
7	Contact	(All) ▼
8	Industry	(All) ▼
9	State	(All) ▼
10	Company	(All) ▼
11	Source	(All) ▼
12		
13	C1AccountNo	
14	Contact Type	Total
15		24
16	Suspect	112
17	Prospect	58
18	Customer	3
19	Past Client	57
20	Grand Total	254
21		
22		

The simplest report is a summary that “rolls up” information into an overview. Any report you create in MasterMine can be quickly formed into a summary like this one:

In this simple summary report, a single field, Contact Type, has been dragged into the Row area. The result is a breakdown of the database showing each value in the Contact Type field in GoldMine, and a count of the occurrences of each one.

Note that the Field Items shown are those that actually occur in the database, not a list of “possible” items or the list of lookups that you have defined for the field in GoldMine. If an item appears to be missing, it is probably because you do not have a real example of that item in your database.

Each field item is counted – so we can see that there are 112 Suspects, 58 Prospects, etc. in the database and 24 records for which the Contact Type field is blank.

There are nine fields in the Page Area of the report, available to be used as filters or to be dragged down and displayed in the Row or Column Areas of the report.

To create another simple summary report, you can simply drag another field into the row area and drag the “Contact Type” field out, either to the Page area above or entirely off the pivot table. Although the results from this process may seem extremely simple, they approximate the result of writing a series of SQL statements on your own (minus the wasted hours).

Matrix Reports

A 1 x 1 matrix report is a very simple yet powerful way to “segment” your database. To accomplish the one below, drag a second field into the Column Area of your report. The result is a “table” (also called a “cross-tab”) showing a breakdown simultaneously by both fields.

Budget	(All)											
CreateOn	(All)											
Stage	(All)											
Contact	(All)											
Industry	(All)											
Source	(All)											
C1AccountNo	Territory											
Contact Type	CT	MA	MW	NE	PN	RM	SC	SE			Grand Total	
	1	4	3	3	4	3	1	1			4	24
Suspect	2	13	16	15	10	18	8	19			11	112
Prospect	2	3	8	14	5	5	5	9			7	58
Customer		1	2									3
Past Client	3	9	8	7	4	8	5	7			6	57
Grand Total	8	30	37	39	23	34	19	36			28	254

In this example, the database is broken down by Contact Type and Territory. Each Contact Type is broken down by Territory (in rows) and each Territory is broken down by Contact Type (in columns). As one example, there are 15 Suspects in the MW Territory.

This is obviously the simplest kind of matrix report, showing one dimension in Rows and another in Columns, creating a 2-dimensional “cube”. Note that adding this dimension changes the size and shape of the pivot table, so it occupies much more of the spreadsheet. If the cells that would be covered by the expanded pivot table contain any information, Excel will ask the user whether overwriting those cells is okay.

Multi-dimensional Matrix

You can drag more fields into either the Row or Column areas, thus showing more and more detail for each item in the fields already there. Adding a second field to the Row Area, to the right of the Contact Type field changes the report to look like this:

7	Budget	(All)											
8	CreateOn	(All)											
9	Stage	(All)											
10	Contact	(All)											
11	Source	(All)											
12													
13	C1AccountNo	Territory											
14	Contact Type	Industry	CN	CT	MA	MW	NE	PN	RM	SC	SE	Grand Total	
15		Engineering			1		1				1		4
16		Food			1	1		2	1		1		6
17		Pharmaceuticals	1		2	2	2	1	2	1		3	14
18	Suspect	Aviation		1	1	1	3	2	3	2	5	2	20
19		Engineering			1	4	4	1	2	1	2	1	16
20		Food			1	5	2	2	5	1	2	3	21
21		Media			5	4	3	5	5	2	5	5	34
22		Pharmaceuticals	1		5	2	3		3	2	5		21
23	Prospect	Aviation		2								2	4
24		Engineering			1		1		1			3	6
25		Food				1				1			2
26		Media			2	6	4	5	4	2	7	2	32
27		Pharmaceuticals				1	1			1	2		5
28		System Design					8			1			9
29	Customer	Engineering				1							1
30		Media			1								1
31		Pharmaceuticals				1							1
32	Past Client	Aviation			6	4	3	2	5	1	3	3	27
33		Engineering	1			2			2	3	3	1	12
34		Food	1		2	2	3	2		1	1		12
35		Media	1		1		1					1	4
36		Pharmaceuticals							1			1	2
37	Grand Total			8	30	37	39	23	34	19	36	28	254
38													

Note that dragging in the Industry field allows us now to see each Contact Type item broken down by both Industry and Territory.

The advantage of seeing this further detail is obvious – we see a finer level of detail in our database. The disadvantage is that our report now extends beyond the boundaries of the page. Continuing to add detail will simultaneously expand the size of the pivot table, eventually making the table very difficult to read.

Line-Listing Reports

To create a common list-listing report, simply drag all the fields you need into the Row Area of your report, in the sequence you need them to appear. This kind of report typically shows a single line per “row” in your query.

You DO NOT need to drag fields into the report that will have only a single value! These fields can be left in the Page Area of the report and the specific value simply selected in the listbox to the right of the field. This vastly improves the efficiency of your report, as well as creating an explicit “heading” at the top of the report indicating what is shown below.

Once you have dragged all necessary fields into your report, you can make a choice about which fields to subtotal. Typically, in this type of report only the first one or two fields in the row area will be left with subtotals. Turn off subtotaling for each field by clicking on the field and hitting “Subtotal On/Off” in the MMTools ribbon.

A typical line-listing report appears below. This report has five fields in the Row Area with all subtotals turned off except for the first row field, and no column area fields. Note that the right-most “column” is really the Data Area of the report, containing all “1”s because each full row of data is unique in this report.

10	Stage	(All)				
11	Territory	MW				
12						
13	C1AccountNo					
14	Contact Type	Contact	Company	Industry	Source	Total
15		Dan Jensen	Jensen Group	Pharmaceuticals	Radio Advertising	1
16		Ida Yates	Jensen & Sons	Pharmaceuticals	Word Of Mouth	1
17		Sue Puccini	McDonnell Manufacturing	Engineering	Trade Show	1
18	Total					3
19	Suspect	Brenda Bartholomew	Connective Automation	Engineering	Trade Show	1
20		Dean Champlin	Elite Systems	Engineering	Web Import	1
21		Dolly Harden	Brown Investment Systems	Pharmaceuticals	Web Import	1
22		Ellen Sefenaro	Praxis Consulting, Inc.	Aviation	Word Of Mouth	1
23		Glen Hillerman	Sandor Assembly	Media	Trade Show	1
24		Ian Kendall	Latham & Watkins	Pharmaceuticals	Yellow Pages	1
25		Jerome Leon	Advanced Product Solutions	Media	Magazine Ad	1
26		Jonathan Stallings	Collegiate Systems	Aviation	Customer Referral	1
27		Karl Yarborough	Fenix Associates	Aviation	Web Import	1
28		Lawrence Kristoff	Excellent Objects, Inc.	Food	Radio Advertising	1
29		Marsha Mayfield	Remton, Inc.	Media	Customer Referral	1
30		Parker Fillman	Bluefield Banding	Engineering	Radio Advertising	1
31		Stephanie Lopez	Complete Solutions	Engineering	Radio Advertising	1
32		Tanya Lechter	Generic Brands	Food	Trade Show	1
33		Wylie Kalvert	Kalvert & Sons	Pharmaceuticals	Magazine Ad	1
34	Suspect Total					15
35	Prospect	Annette Ambrose	Blackhawk Manufacturing	Media	Customer Referral	1
36		Brandy Smith	Maldensen Products	Media	Word Of Mouth	1
37		Paul White	Applied Assembly Consultants, Inc.	Pharmaceuticals	Word Of Mouth	1

Drill-down Report


Another type of Line-Listing report can be created instantly by simply double-clicking on any data area number. This automatically creates a new worksheet and your data, no longer in the form of a pivot table, appears in rows going down the page.

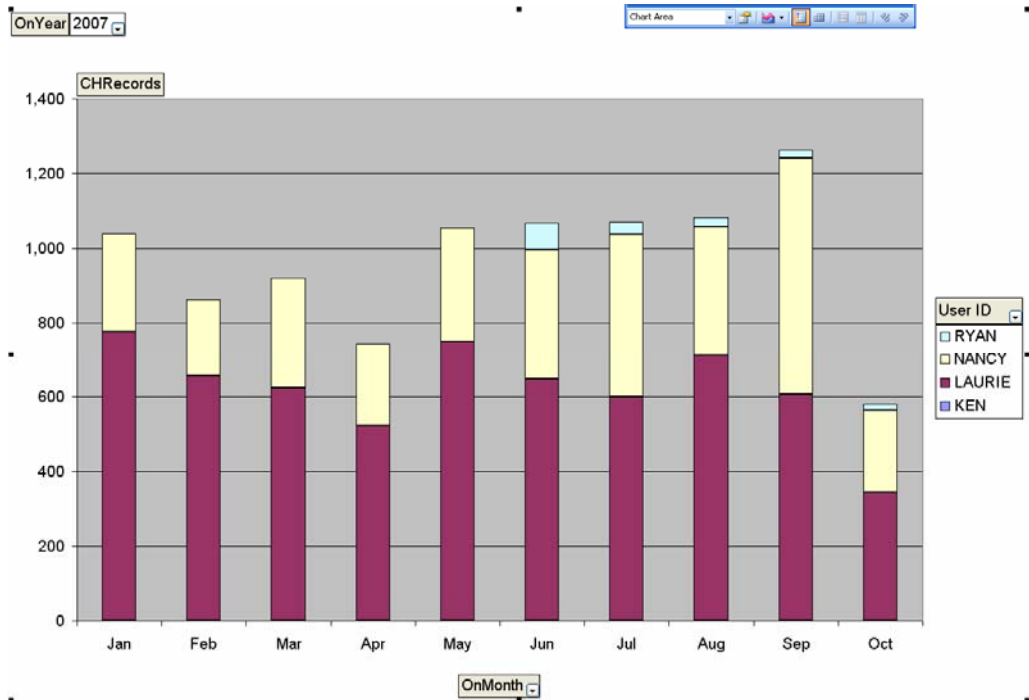
You can think of this report in two ways: as a raw, line-by-line listing of the contents of the “drilled-down” part of the pivot table report, or as another report, formatted differently, looking at a segment of data from the pivot table. This report shows all rows of your report’s underlying query that underlie the double-clicked Data Area number. Every field from your query is included in this query, with the more interesting fields toward the left of each row and the more “technical” fields like Accountno and RecordID toward the right.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Contact	Company	State	Source	Contact_Type	Industry	Sales_Rep	Territory	Stage	CreateOn	CIAccountNo	Budget	Ema
2	Tara Tooley	Orthodontic Solutions	SC	Radio Advertising	Suspect	Aviation	Gertrude	SE		12/7/2005	99120936269%D=LY-Tar		tooley@ortho9
3	Elizabeth Roberts	Abacor Inc.	NC	Customer Referral	Suspect	Aviation	Tammy	SE		3/25/2005	99102131609%4)P^		elizabeth@abc
4	Brooks Barbee	Triangle Technology	NC	Yellow Pages	Prospect	Aviation	Laura	SE		2/22/2006	A0022423074)%%@X_Bro		
5	Ian Flowers	Service Plus Machines	GA	Customer Referral	Prospect	Aviation	Laura	SE		2/6/2006	A0020837472#P-OK@/ba		iflowers@minds
6	Barbara Jones	Bartman Company	NC	Radio Advertising	Past Client	Aviation	Laura	SE		12/11/2005	99121340961%LOOTZBar		babs@mci.net
7	Brandon Bates	Martinsen	NC	Magazine Ad	Past Client	Aviation	Bill	SE		12/12/2005	A0012025191&V=^		brandon@marti
8	Kathy Woodworth	Premdor Systems	FL	Customer Referral	Past Client	Aviation	Tammy	SE		6/20/2005	97111136296\$QNMGBLau		kathy@mci.net
9	Patricia Phan	Qualified System	NC	Yellow Pages		Engineering	Tammy	SE		4/19/2007	91040329159613033Dav		
10	Rachel Thompsin	Ramtron Inc.	FL	Trade Show	Suspect	Engineering	Tammy	SE		1/11/2006	A0011332047%3CREORac		rachel@ramtror
11	Walter Wells	Consumer Reclamation Project	NC	Customer Referral	Prospect	Engineering	Bill	SE		8/29/2005	99083100606&)*=-_GCom		wwells@constre
12	Randolph Williams	R.D. Williams Inc.	GA	Magazine Ad	Prospect	Engineering	Tammy	SE		10/21/2004	98102330724%P-@^_J		
13	Marty Spier	Landsource	GA	Radio Advertising	Prospect	Engineering	Laura	SE		7/31/2006	94041300000126900Mar		
14	Donna Ritter	Speedy Solutions	TN	Trade Show	Past Client	Engineering	Bill	SE		10/27/2006	A0020160931K_AV7		
15	Lance Lawrence	Trenton Solutions Group	GA	Trade Show	Suspect	Food	Laura	SE		11/22/2005	99112432398(I_(NGJoh		
16	Edward Castelle	Uptown Systems	NC	Customer Referral	Suspect	Food	Bill	SE		4/19/2005	A0012841532)DLR7		edward@uptown
17	Bryan Carlisle	BAX Global	GA	Radio Advertising	Suspect	Food	Laura	SE		7/19/2006	9706133752373096Bre		
18	Tyler Morris III	Tyler Morris Company	TN	Trade Show	Suspect	Media	Bill	SE		2/22/2006	A0022423256)&SZV_iss		
19	Barry Bellamtn	TCBS	GA	Customer Referral	Suspect	Media	Gertrude	SE		3/4/2005	A00105283248F_18^		barry@tcbs.cor
20	Roger Williams	IMAC Industries	FL	Customer Referral	Suspect	Media	Pete	SE		7/13/2004	98071549217%KGA_Rog		roger@imac.co
21	Marilyn Davidson	AFSM, Inc.	FL	Customer Referral	Suspect	Media	Gertrude	SE		6/27/2005	9906330028)IIR		mdavidson@afs
22	Venus Markelis	Menda Associates	GA	Radio Advertising	Suspect	Media	Bill	SE		9/10/2005	96121804669507056VAr		
23	Madison Frank	KMS, Inc.	NC	Customer Referral	Prospect	Media	Laura	SE		9/18/2005	98032058194%1A-CVCar		madison-frank@
24	Monique Kardu	Tradewinds Solutions	FL	Magazine Ad	Prospect	Media	Bill	SE		1/6/2006	9807229404&J7G^Mad		nieque@attgloba
25	Judith Martin	Barbers & Baubles	FL	Web Import	Past Client	Media	Bill	SE		7/3/2005	96100834813425188Joh		judith@b+tb.con
26	Kevin Kaiser	Downtown Market Makers	SC	Other		Pharmaceuticals	Laura	SE		5/29/2006	A0020731174+89-1^		kmk@mindsprir
27	Jeffrey Garnett	Commercial Partners	TN	Yellow Pages		Pharmaceuticals	Pete	SE		4/27/2007	A0012450054%W^KO7		jgarnett@copart
28	Brett White	Gilburn Inc.	FL	Trade Show		Pharmaceuticals	Tammy	SE		3/7/2004	98030836944^*V^P_GES		bwhite@gbp.co
29	Brent Dessenberger	Marathon Innovations	MS	Customer Referral	Past Client	Pharmaceuticals	Pete	SE		1/24/2005	A0020749959)k;MO7		
30													

The order of the columns here was set when you originally created the MasterMine report. See “Field List Controls” on page 53 for instructions on setting the order at the time of report creation. These fields can also be re-arranged after the report exists. See “Resort Columns for Drilldown” on page 125.

Charts and Graphs

Any MasterMine report can be converted into a chart simply by clicking on the “PivotChart” button () on the Options ribbon under “PivotTable Tools”. This creates a graphic view of the same table you are using on another worksheet in the same workbook.

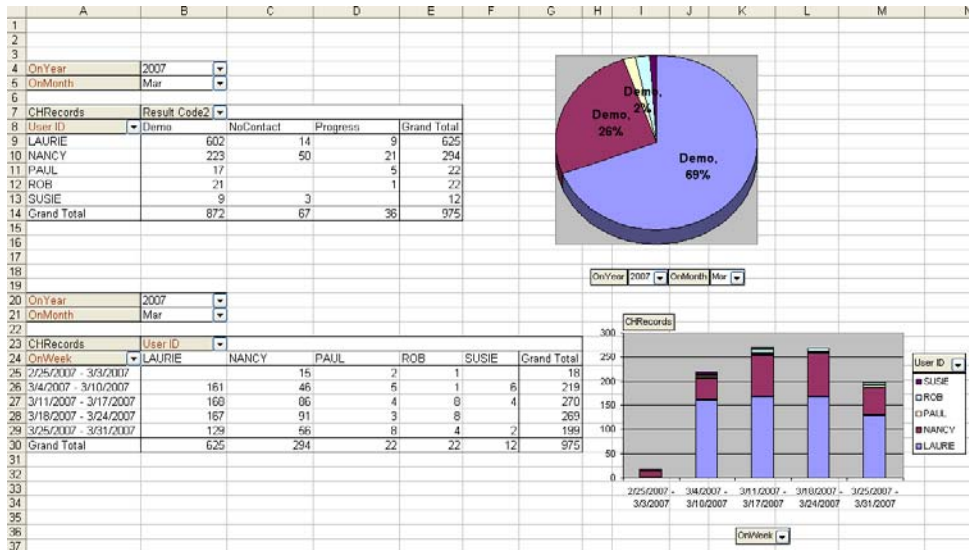


The full range of Microsoft Excel charting is available to make dozens of types of charts, with coloring and formatting options that run the gamut. See Excel help for further information.

Multi-table Reports and “Digital Dashboards”

As your reporting becomes more sophisticated, you may develop reports that contain any combination of these styles. Your reports might have worksheets that contain multiple pivot tables, charts and even cell formulas created to read data from other locations (for instance, lookups from pivot tables on other worksheets).

To view the same data in multiple ways on the same worksheet, you can copy an entire pivot table from one sheet to another. To do this, highlight the entire pivot table including, if necessary, some empty cells in the areas surrounding the pivot table, then copy the area and paste it to the new location on another worksheet.



Adding charts is easy, and it often makes your report immediately more readable. Right-click on any chart and select “Location” from the short menu to plug the chart into a spreadsheet containing other pivot tables or charts.

Using these skills, you can build a sophisticated “Digital Dashboard” that contains all the key metrics you need to manage your people and your business effectively.

“Data Area” Alternatives

Your Pivot Table Data area generally shows a count of the number of records in GoldMine that meet the criteria given by the corresponding column and row headings, and by filters set in the Page area. More sophisticated reports can include summed numeric data (such as sales amounts) or even dates in the data area.

If you start with a MasterMine template, you will generally not need to drag fields into or out of the Data Area. MasterMine reports anticipate the best arrangement of fields to be included in the Data Area given the context of the report. As you become a more sophisticated user of MasterMine, you may find that experimenting with the Data Area is a rich source of sophisticated information. Here, our comments on the Data must remain general:

If a field in the data area contains character data, the numbers displayed are counts of non-null values in that field. Because every record in GoldMine contains a value in both the RecID and AccountNo fields, these fields are most often used as the default field in the Data Area. However, sometimes MasterMine uses numeric or date type data to create more interesting results.

Numeric Fields: After dropping a numeric or date field into the data area, double-click on the field (not its contents) to define how that field is to be summarized. For a numeric field (such as “Amount” in a Sale record) you get a Sum of the numeric values in the field by default. You can make the pivot table perform more sophisticated calculations by changing this setting to Average, Maximum, Minimum, Product, Count of Numeric Items, Standard Deviations and Variances. You can also cause summed or counted data to show as a percentage of the Row or Column, or many other variations.

Excel provides some other ways to calculate and compare data using the field definition form, including “custom calculations”, “calculated fields” and “calculated items.” Most of these options are quite sophisticated and require more in-depth discussion than we can provide here. If you wish to explore these options, use the built-in Excel Help topic “Summarize and Calculate Data In a PivotTable” to learn more.

While you’re here, click on the “Number...” button to format how this number is to be presented, using decimal places, etc.

Date Fields: Date fields can be displayed in the Data area. By default, dragging a date field to the data area results in it being counted, like any character field. However, you can set the field to show the “Max” or “Min” date for its row and column by doing the following: Drop a date field into the Data area, double-click the field name, set to “Max” or “Min” under “Summarize by:” and click “Number...” to format the date as desired.

Tools & Skills for Formatting and Analyzing

Suggestion:

When you first launch MasterMine you need only hit “Create”, without selecting anything else, to see a working report you can play around with.

Try these basic skills on your simple report to get used to them before moving on to create a “real” report.

Once you’ve created a MasterMine report, you can begin to hone it to your specifications, setting up groups and parameters to meet your daily information needs.

Filtering in the Page Area

The easiest way to filter a report is simply to select an item in the dropdown list of any field or fields in the Page area of your report. This limits the display area below to only those records for which the related page field contains the selected field item. This simultaneously creates a visual confirmation of the filtering (which you will find very useful!) by displaying the selected filter value to the right of the field.

With this technique, you can easily set multiple parameters for your report by selecting items within several fields in your Page area.

Beginning with Excel 2007 it is possible to select multiple items within a single field in the Page Area. When you select multiple items, a “filter” icon appears on the dropdown button next to the field, so you know a filter using that field is active.

Earlier versions of Excel include a technique available to filter multiple field items in the Page area. To do this, you need to create a group within the field. See instructions on grouping below under “Grouping Field Items.”

The steps are:

- 1) Move the field to the Row Area.
- 2) Create a group of the items you want to select and give that new group a logical name.
- 3) Move the grouped field back to the Page area.
- 4) Select the named group as a filter.

Thus, your report shows only data for records where the field contains one of the items in the group. An added benefit is that you can use this group in a way similar to how you would use a single field item.

Set Page Filters Across Multiple Pivot Tables and Worksheets

More sophisticated reports often end up with many views of the same data, cloned into many worksheets within a single workbook. You may wish to set your filter selection once for similar reports across the entire workbook rather than going to each worksheet. Here’s how: after selecting a Page field value to filter data in one pivot table, double-click on the same value. MasterMine asks if you want to set this value for this Page field in all pivot tables in the workbook.

Filtering in the Row or Column Area

More simply, but with fewer visible cues, you may filter your report by hiding some field items in a displayed field. With your field in the Row or Column area, click the dropdown arrow on the right side of the field. This shows a checkbox list of all items in the field. This list includes all values that have been in this field in your GoldMine database any time this report has been refreshed. Uncheck any items that you would like to hide from your report.

This filtering effect “follows” the field from then on, even if you drag the field to another area, unless you check these hidden items on again. It only stops filtering on the data shown if you drag the field off the pivot table entirely (to the Pivot Table Field List).

Effects of Hiding Field Items

Having hidden items in your fields can have several important implications:

- Hiding field items reduces counts and sums in the data area by the amounts associated with these items. When you use the same report later, your report may be misleading unless you account for your missing “hidden” items. In addition to sheer long-run convenience, this is why we recommend using the “grouping” method of filtering, described above, wherever possible
- **HINT: New users tend to overuse this feature.** It can be very time-consuming to check or uncheck large numbers of field items. It is easier to create a group of items that you want to display, or of the ones you want to hide. Then you can simply turn the group on or off as desired, either in the Row or Column area or, even better, in the Page Area. Read more about data grouping starting on page 101.
- If you move a field containing hidden items up to the Page area, the missing items will still affect the displayed data. This may or may not be desirable. If you DO want this to happen, it is probably best to type in a hint to the user to the right of the Page area indicating the hidden values. If you DO NOT want hidden values to affect the displayed report, you can change the table attribute “Subtotal hidden page items” as desired.
- Hidden items can always be revealed by moving the field to the Row Area and viewing the dropdown list associated with it. If you see unchecked field items there, re-checking them will return them to the report. Without moving the field, you can also see hidden items by double-clicking on the field in the page area and viewing the highlighted items in the “Hide” dialog.

Date Ranges

Filtering on a date range is very similar to filtering on any other Page Area item. Do this by clicking on the Year, Month, Quarter, Week or other date desired. All Pending and History reports in MasterMine automatically contain the “OnDate” of each activity date (the date when the activity is scheduled to occur, or has actually occurred, respectively) grouped into Years, Quarters, Months and Weeks.

Selecting a date range requires, of course, that your report contain these fields to start with. Once these items are created, you will find altering the selected date range is easier than typing in start- and end-dates.

You may wish to use a range based on another date from your database. To create date range selection fields, identify the field containing the data you want to filter. Use the technique described below under Date Ranges (Group Using Date Fields)” on page 105 to create your Date unit fields for easy user selection.

Refresh Data

With any cell on the PivotTable selected, click Refresh the MasterMine or Options (under PivotTable Tools) to retrieve current data from the GoldMine database files.


Sorting

By default, MasterMine automatically sorts tables alphabetically by the outermost field on the left, breaking out each item in the field by the field items to the right of it, which are themselves sorted alphabetically. Thus, in the example above, Contact Type is alphabetical and, within it, the types of Industry are alphabetical (e.g. Aviation, Engineering, Food, Media, Pharmaceuticals).

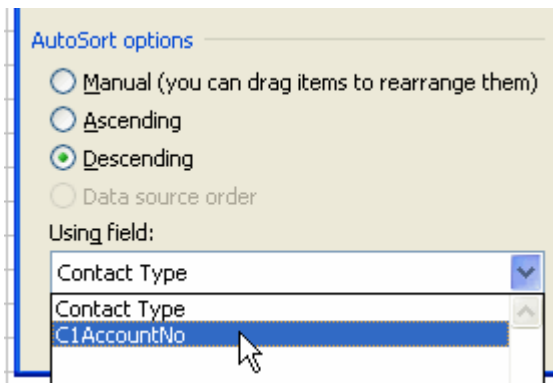
Pivot tables must always sort this way. That is, the outermost fields govern sorting, hierarchically from left to right (for Row Fields) and from top to bottom (for Column Fields).

Manual Sort

By default, when a report is first created, every field is sorted alphabetically, but its sort setting is “Manual”. That is, the user can drag field items to a new order. To manually re-sort field items, click once on a field item, then move the mouse to the outer edge of the

same cell until the mouse icon changes to a 4-way arrow (). Then click and drag the item to a new location anywhere within the same field. The new order of items with the field will remain, even if the field is dragged out of the pivot table.

Sort Ascending or Descending



To change any field to another type of sorting, double-click on the field button itself, click “Advanced” and see the sort settings on the left side of the dialog.

Select Ascending or Descending to cause the field to automatically sort all field items within it alphabetically. The default medium of sorting is the contents of the field itself.

You may also choose to sort by the values in the data area corresponding to each field item. Thus, for instance, selecting “Descending” and then, in the “Using field:” list box below this, selecting a field in the Data area to sort by will result in a report

showing the number of occurrences of each item within the database in descending order.

When refreshing your report causes new field items to appear within the field, these new items will appear in the field at a location determined by the type of sorting that is in effect for the field. If the field is sorted Ascending or Descending, new items will automatically sort into the list at the logical location according to the sort. New items in a field that is under “Manual Sort” will appear at the end of the list.

	A	B	C
10	Contact	(All)	
11	Territory	(All)	
12			
13	C1AccountNo		
14	Contact Type	Total	
15	Suspect	112	
16	Prospect	58	
17	Past Client	57	
18		24	
19	Customer	3	
20	Grand Total	254	

Roll-up/Roll-down

With multiple fields in the Row or Column areas, double-clicking any field item “Rolls down” or “Rolls up” the detail for that item. This simple but powerful activity gives you the ability to summarize OR show greater detail in an instant.

12	User ID2	Active Repts			
13	Region2	North America			
14					
15	Amount	Status			
16	Region	Active	Inactive	Dead	Grand Total
17	CN	62,352.61	6,393.80	4,385.00	73,131.41
18	MW	106,750.78	4,843.00	1,394.00	112,987.78
19	NE	142,373.64	7,485.00	103,075.01	252,933.65
20	NW	17,745.80	5,943.00	7,317.80	31,006.60
21	SE	87,730.30	27,797.60	32,116.25	147,644.15
22	SO	56,361.43	20,805.22	16,091.00	93,257.65
23	SW	114,209.12	8,747.07	22,384.95	145,341.14
24	Grand Total	587,523.68	82,014.69	186,764.01	856,302.38

The pivot table at left is an ordinary two-dimensional table with one field, Region, in the Row Area and one field, Status, in the Column Area. This simple report is a clear representation of sales broken out by region and by account status.

Because there are multiple sales agents operating in each region, the user (a sales manager, perhaps) may want to know how

one particular region, “MW”, breaks out by UserID, thus answering the question “Within the MW region, how much sales revenue is each user bringing in?”

There are many approaches to doing this. For instance, the manager could drag the region field to the page area and select “MW”, then pull the UserID field into the report. This would create a view ONLY of the MW region, preventing the person from comparing it conveniently with other regions.

Another option is simply to “Roll Down” the MW field item **by double-clicking on MW**. A dialog asks which type of further detail to show for the MW field. In the dialog,

12	User ID2	Active Repts				
13	Region2	North America				
14						
15	Amount	Status				
16	Region	User ID	Active	Inactive	Dead	Grand Total
17	CN		62,352.61	6,393.80	4,385.00	73,131.41
18	MW	GAIL	6,418.71	100.00	399.00	6,917.71
19		LAURIE	62,006.19	3,588.00		65,594.19
20		PENNY	11,750.71	160.00		11,910.71
21		ROB	26,575.17	995.00	995.00	28,565.17
22	MW Total		106,750.78	4,843.00	1,394.00	112,987.78
23	NE		142,373.64	7,485.00	103,075.01	252,933.65
24	NW		17,745.80	5,943.00	7,317.80	31,006.60
25	SE		87,730.30	27,797.60	32,116.25	147,644.15
26	SO		56,361.43	20,805.22	16,091.00	93,257.65
27	SW		114,209.12	8,747.07	22,384.95	145,341.14
28	Grand Total		587,523.68	82,014.69	186,764.01	856,302.38

the manager selects UserID and clicks OK.

Now the manager has an in-context breakdown of MW by UserID that still allows him or her to see the proportionality between individual Users’ performance against one another AND against other regions.

The manager can then proceed to roll down additional Regions, again, by

double-clicking on each region as needed. He or she can roll them up again by, yet again, double-clicking on the same region names. This selective roll-up/roll-down feature should be used actively by any end user as a means to quickly understand large amounts of data and to present it for others in the most revealing fashion.

Combine Rollup/Rolldown with Item Grouping

The above example shows the detail you see when rolling down the items of a second field (UserID) from the database. This is very useful. However, you can also create groups within a single field, for example, grouping Sales Rep field items (the sales reps) into Regions, even though you don’t have a field in your database called “Regions”. Even

though it doesn't exist as a field in the database, this allows you to treat "Region" as a field in your report, with all the capabilities of a real data field.

As you learn about grouping field items in the next section, consider how the Rollup/Rolldown capability combined with this type of grouping creates a powerful interactive tool for executive-level management. It frees the user to see information summarized, in full detail or at any level in between.

Combine Rollup/Rolldown capability with skillful grouping to create components for a digital dashboard that any executive can easily use to comprehend large amounts of data. Even if the executive learns nothing else about MasterMine reporting, these two skills alone are enough to provide key levers to manage their business through GoldMine.

Grouping Field Items

Grouping items within your report is one of the most powerful and useful features of a pivot table. With Groupings you can isolate, display or compare not just data elements but whole subsets of data that are meaningful to you, and to re-use those subsets in a variety of ways. You can build Groups "on-the-fly" in seconds using the following methods.

One common example is grouping UserIDs by Sales region or division, so that even if those users are not formally "grouped" or otherwise associated within GoldMine, your reports can better reflect reality.

Without grouping, the items in your report can only be summarized by values actually contained in the database. For example, a call report that shows each user's calls broken out by result code might look like this:

5	OnWeek	(All)							
6	Account Rep	(All)							
7									
8	C1AccountNo	Result Code							
9	User ID	COM	INP	PRO	LM1	LM2	LM3	Grand Total	
10	CONNIE			2			1	1	4
11	DAN	21		6	61	6	2		96
12	ERIK	1							1
13	GAIL	1							1
14	KEN	4				1	1		6
15	LAURIE	5		9					14
16	NANCY	13		28		20	2		63
17	PAUL	4							4
18	PENNY	1		1		2			4
19	ROB	5		2		1			8
20	RYAN	6				11	2		19
21	STEVE	4							4
22	THERESA					2	1		3
23	TRISHA	3		1		5			9
24	VAN					4			4
25	Grand Total		68	49	61	52	9	1	240
26									

Grouping these items logically allows us to add a great deal of meaning to our report, even though the GoldMine database itself does not contain groupings of users or of Result Codes.

First we group users by East and West, according to their areas of responsibility. In this case we used “Manual Grouping”, described below:

5	UnWeek	(All)							
6	Account Rep	(All)							
7									
8	C1AccountNo		Result Code						
9	User ID2	User ID	COM	INP	PRO	LM1	LM2	LM3	Grand Total
10	East	PAUL	4						4
11		PENNY	1		1		2		4
12		ROB	5		2		1		8
13		RYAN	6				11	2	19
14		STEVE	4						4
15		THERESA					2	1	3
16		TRISHA	3		1		5		9
17		VAN					4		4
18	West	CONNIE			2			1	1
19		DAN	21		6	61	6	2	96
20		ERIK	1						1
21		GAIL	1						1
22		KEN	4				1	1	6
23		LAURIE	5		9				14
24		NANCY	13		28		20	2	63
25	Grand Total		68	49	61	52	9	1	240

Then we group Result Codes in a logical way, by whether the called person was contacted or not, so we can better assess the value of our calling efforts:

5	UnWeek	(All)							
6	Account Rep	(All)							
7									
8	C1AccountNo		Result Code2	Result Code					
9	User ID2	User ID	COM	INP	PRO	LM1	LM2	LM3	Grand Total
10	East	PAUL	4						4
11		PENNY	1		1		2		4
12		ROB	5		2		1		8
13		RYAN	6				11	2	19
14		STEVE	4						4
15		THERESA					2	1	3
16		TRISHA	3		1		5		9
17		VAN					4		4
18	West	CONNIE			2			1	1
19		DAN	21		6	61	6	2	96
20		ERIK	1						1
21		GAIL	1						1
22		KEN	4				1	1	6
23		LAURIE	5		9				14
24		NANCY	13		28		20	2	63
25	Grand Total		68	49	61	52	9	1	240

Finally, we can subtotal by group, “roll up” our groups into single items or use them as filters, whatever makes it easiest to understand our calling results. Here’s how the same report looks rolled up into a tight summary:

5	UnWeek	(All)						
6	Account Rep	(All)						
7								
8	C1AccountNo		Result Code2	Result Code				
9			Contact	No Contact	Grand Total			
10	User ID2	User ID						
11	East		27	28	55			
12	West		151	34	185			
13	Grand Total		178	62	240			
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

Groups can be treated just like individual field items – as filters in the Page area of your report, or as display elements (row or column items) just like regular field items. Therefore, you can compare not just calls by PAUL, PENNY and ROB as individuals, but also by region, where each region is actually a group of users instead of a separate field value, as they are in GoldMine.

Grouping Techniques and Tricks

To build a local “Group” in MasterMine, use one of these methods:

Manually Group Field Items

Highlight the items within a Row or Column field you wish to group and click the “Group selected items” button on the MMTTools ribbon. You can highlight these items either by drag-selecting them if they are next to each other, or, if the desired items are not next to each other, click the first item and control-click the rest. You can add more items to your highlighted selection by control-clicking or control-drag-selecting additional ones BEFORE hitting the group button.


If items in this field have not previously been grouped, MasterMine creates a new field button with the name of the old field button plus ‘2’, and opens a group naming dialog, showing the default name for the new group, “Group1”. Overwrite “Group1” with a name that reflects the group’s function or leave it as “Group1”. You can treat the new “grouped” field button the same as any other field in the PivotTable.

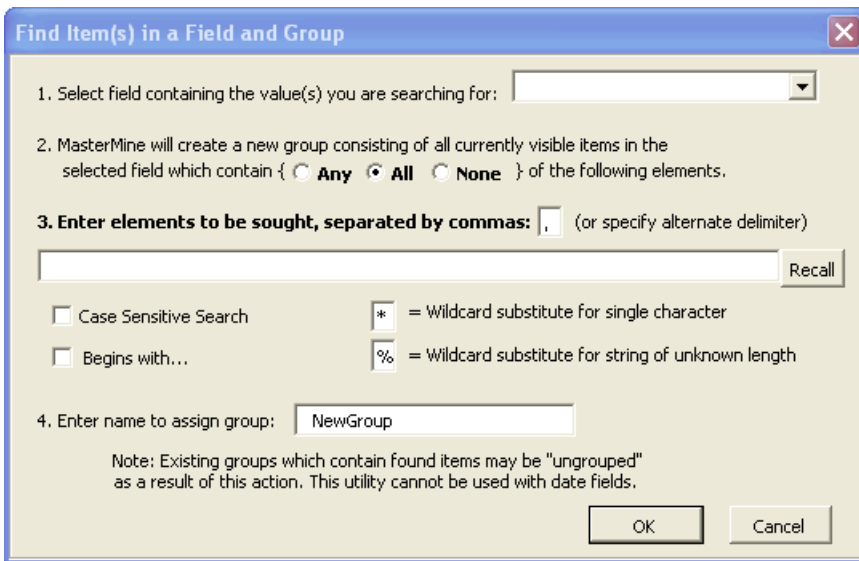
If items in this field have already been grouped before, you may either leave the selected items grouped into a new, distinct group, or you may add the selected items to another existing group by selecting that group in the list box instead of accepting the default generic group name.

Group Field Items by Content Search

Sometimes you need to isolate or to group items that *contain* a certain value or one of several values. This is easy if there are only a few items in the field in question so you can scan them easily. But what if there are hundreds or thousands to search?

Fortunately, MasterMine provides an alternative. Rather than hunting through hundreds of items looking for a pattern, do the following:

1. Move the field to the row area of the pivot table, so that items are listed below it.
2. Click the field search button () –OR– select the field button itself with a single click and then click the “Group selected items” button on the MMTTools ribbon.



If you have a cell selected on the field to be searched, the dialog defaults to that field.

Click “Any” to your “or” logic, “All” to use “and” logic, or “None” to use “and not” logic, as desired to guide the search. If you are confused about what will happen, read the whole sentence of #2 and substitute Any, All or None, depending on which you have chosen. “Any” and “All” function the same when only one element is sought,

Enter elements being sought, separated by commas. If a comma is part of the search term, replace the comma in the box above the elements to indicate a different multi-element delimiter. Even if you are searching for only one element, but that element contains (or is) a comma, change the delimiter to some other value, such as “&”.

Check “Case Sensitive Search” to include only items that match precisely the case of the elements being sought.

Check “Begins with...” to include only items that begin with the elements being sought. If “None” is selected above, only items that do NOT begin with the sought elements will be included.

You may enter any group name to assign to the group after it is created. If a single element is being sought, the default name is the element.

MasterMine searches through all the items in the selected field, groups the ones containing the target values under “NewGroup” and moves this new group to the top of the list. Now you can use “NewGroup”, or whatever name you choose, as a selection

criterion in the page area. You can also leave it in the display area and double-click on it to roll-up or roll-down detail.

“Group On Content Search” can find and isolate groups that contain any, all or none of the elements you list in the “Enter elements...” box. Furthermore, you can use wildcards in these elements to get all records that contain some value *except* for a particular character (use * as the default wildcard) or character string (using % by default)

Group On Content Search Example

You want to isolate completed “Call” records that users have coded different ways in the Reference field over time. Sometimes they wrote in “ABCD”, sometimes “ABXD” and sometimes “ABED”. You want to include only those whose Reference field also contains the word “sold”. In this case, you would click the “All” radio button at the top, enter the following without quotes into the box after “Enter elements to be sought, separated by commas:”

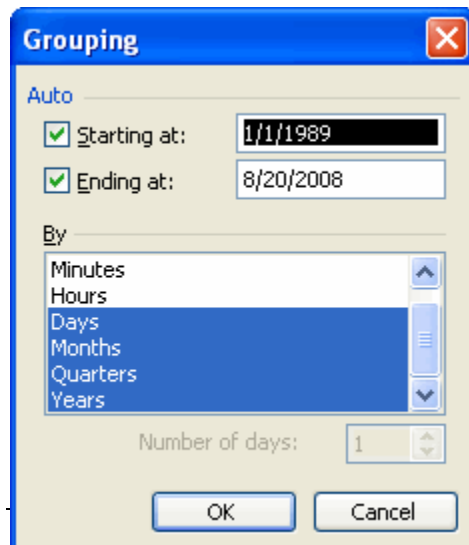
AB*D, sold

Finally, name the group something non-generic like “ABxD and sold”. When you hit the “OK” button, every field element visible in the row area will be searched and, if it meets the criteria, will be highlighted and grouped, then shifted (as a group) to the top of the row area.

Now the user has many choices of how to use this grouping further: 1) Double-click on “ABxD and sold” to roll it up or down. 2) Drag the new field (Reference2) up to the page area and select “ABxD and sold” in the dropdown list next to it, thereby filtering the report to include only those in the “ABxD and sold” group. 3) almost anything else you can do with a single field item.

Date Ranges (Group Using Date Fields)

Any date field can be automatically grouped by several calendar units (year, quarter, month, date) at once. This allows you, for example, to quickly organize any report around year-to-year or month-to-month comparisons, date ranges, or single dates.



First, make sure the date field you wish to group is in either the Row or Column area of your report. Then select any date item in the field and click the “Date range” button on the MMTTools ribbon. Indicate your desired beginning and ending date for data to include, and highlight the time grouping(s) desired. If a certain number of days (like 7 for a week) is desired for the group, only ‘days’ may be selected. Hit “OK” to create new fields for all highlighted date unit groupings.

Now you can show or hide any of your new date sub-groups, including all records dated before the “Starting at” date or after the “Ending at” date. Simply uncheck or check them as desired in the dropdown list associated with the date field.

Date grouping requires that ALL items in the field are of the datatype “date” (not character, number, or blank). The MasterMine query ensures this in most templates by substituting the date **01/01/1989** if the date field is null for a given record. The user may set the substitute date in MasterMine’s preferences.

MasterMine automatically creates date groups when creating Pending or History reports. The OnDate field is the one used, even though activity records contain many dates from which date analysis might be made (CreateOn, LastModified, etc.). When you group dates to make date ranges, be sure to use the appropriate date field.

Ungroup Field Items

Select the group item and click the ungroup button on the MMTTools ribbon. If the selected item is the only group item in the field, the “grouped” field will disappear.

Notes on Groups:

Because grouping is so powerful, and such an important feature of the dynamic nature of MasterMine, it is important to know some key things about groups:

- Groups affect all pivot tables in a workbook that rely on the same cache of data. Therefore, if your workbook contains multiple worksheets cloned from a single one, re-grouping will apply across ALL pivot tables in the workbook.
- When you name a group in the dialog box that comes up when you create the group, the new name applies across all pivot tables using the same data cache. If you re-name a group after the fact, by typing over the group name directly in the pivot table, the name change will apply only to the current pivot table.
- Creating a group affects the shape of the pivot table. Note that since grouping affects pivot tables across worksheets, you might cause unintended changes to a pivot table on a worksheet other than the one that is currently active. Check other sheets to make sure your changes are appropriate.
- Grouping data in a MasterMine report may be a difficult skill for some to master, but it is the essential skill upon which data analysis is built. Teach all of your users to work with Groups in MasterMine, and you will take them a long way toward mastering their GoldMine data.

Pivot Table Settings

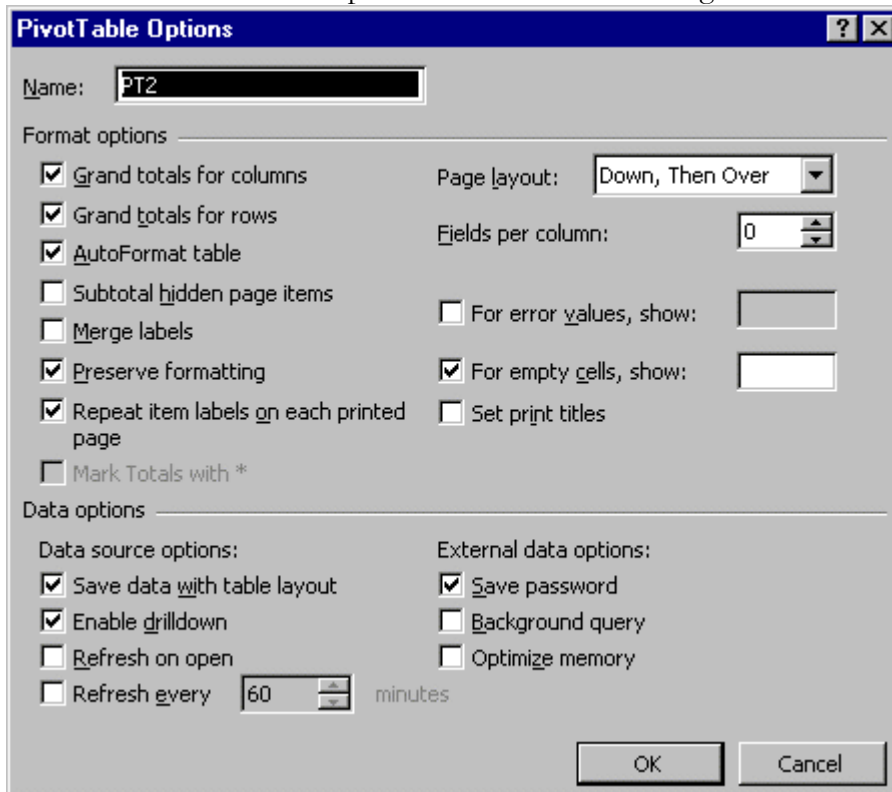
A pivot table itself has certain settings that can dramatically affect formatting. Right-click on a pivot table and select “Table Options” from the short menu. Depending on your version of Excel, this dialog may vary somewhat from the image here.

From this panel, you can set your preferences for the Pivot Table you are working with. Most selections are self-explanatory, and all are explained in the internal Excel documentation and help screens. We’ll point out just a few:

Format Options

Grand Totals for Columns/Rows: Turns on/off totaling for columns and rows.

AutoFormat Table: If an AutoFormat has been applied to a pivot table, unchecking this option turns off autoformatting and returns the pivot table to a generic, non-formatted



state.

Subtotal Hidden Page Items: Can be used to include or exclude data from your report by “Hiding” items within fields in the Page Area. This can be very powerful, but it can be misleading if you forget that you have turned it on or off.

To see how this feature works, check the box on the Options panel and hit the “OK” button. Right-click on a field in the Page Area and select “Field Settings”. Now you can “hide” any of the items within the field by selecting them in the box below. Watch the Pivot Table “Grand Total” as you hit the “OK” button after hiding some items. The Grand Total will decrease by the count of the items you “hid”.

Be careful: There is no other indication on the report that it excludes certain items in this field, or that subtotalling in the Pivot Table excludes them. You may wish to make a note on the sheet to this effect, so that you don’t draw false conclusions later on.

Preserve Formatting: Should always be left checked if you want to retain field formatting (colors that reflect source files, for instance.)

Page Layout: Gives you the option of listing page fields in several parallel columns instead of one long one. This can be very useful if you like to keep a lot of fields in your Page Area for easy access.

Data Options

Save Data with Table Layout: Unchecking this box saves disk space when saving large Pivot Table reports. However, when reloading, you will always have to explicitly refresh data before you can see anything, unless you use...

Refresh on Open: This option automatically refreshes the PivotTable upon opening. In the case of large source files, this can make loading a long process. For reports that you open several times a day and don't need up-to-the-minute data, it's best to leave this one unchecked.

Refresh Every __ Minutes: Setting a refresh time on live reports gives you current information at any moment on key business processes, without any intervention on your part. This allows you to turn your dynamic report into a "real-time display". Those familiar with Microsoft's "Digital Dashboard" will appreciate how easy this makes building your own dashboard element.

Background Query: Allows you to work with your PivotTable while data is loading. This can be a time saver for long refreshes, when you may want to begin moving fields around before you have your final data. Be aware that when the query finishes, different data may alter the layout you want to see.

Optimize Memory: Try this one at your own risk. Microsoft introduced this feature with Office 97, but it never worked properly in that edition. We recommend closing the reports you're not using and optimizing memory by careful field selection.

More Tips & Tricks in Excel

Here, in no particular order, are some additional tips that can help you get the most value from your GoldMine data.

Branch Off From Existing Reports

Branching off from earlier work instead of starting at square one can save you tremendous time. If you have a report that serves you well, but a variation might also be useful, don't re-create it from scratch. Make a copy, save the original and freely create promising variations.

Cloning a whole workbook is as simple as hitting "SaveAs" inside an existing report. Remember to save unchanged the report you started with, so you can go back to it at will. Often it makes sense to group reports with similar source data but different presentations into a folder by themselves.

Remember also that from the MasterMine ribbon, you can instantly clone any worksheet within a workbook, creating variation after variation until you have what you need. Then

you can go back and delete earlier versions that you didn't need. Nothing is wasted by trying various options within a single workbook.

Auto-Refresh

When you deploy reports to other users, especially people not as familiar with MasterMine as you are, you should turn on Auto-refresh, since they are likely to assume that what they see is current.

And here's another twist on auto-refresh: Some users not only prefer that reports refresh as they open, but also that open reports refresh every few minutes. A well-designed "dashboard" that shows the key metrics for the business, especially ones that summarize a lot of fast-changing information (for example, call results from a large outbound calling center) can be a powerful management tool all by itself.

Set Filters Across Worksheets (Page Selection)

As you clone your report from worksheet to worksheet, you create a variety of related reports within a single workbook that combine to tell a story or to serve a reporting need. For instance, you might have a workbook of Sales reps' weekly call reports, where each tab in the workbook represents a different sales rep.

When you load this report each week, you might set the Page field "OnWeek" on every worksheet to the current week. If you have many sales reps, this can be a lot of work. There is an easier way:

After setting OnWeek in the Page area on the first worksheet, double-click on the value you set. (i.e. if you set OnWeek to "07/23/08-07/30/08", double-click on the cell containing "07/23/08-07/30/08".) MasterMine will confirm that you want to apply this setting to all other pivot tables in the workbook with OnWeek in the Page area, and take care of it for you.

By the way, reports on subsequent worksheets need not be cloned from the original sheet. They might be reports based on completely different queries. The key for this feature to operate is that each pivot table have an identically named field in the Page area.

Change a Field Button Name or Label

Select the field button or item and type a name that reflects its meaning in the context of the current report. You may need to select the button twice, if the first selection highlights a row or column field's underlying data. Do not use a name that is already used elsewhere in the Pivot Table (If you do, that field will be pulled to the location of the selected field). The color of the field changes to black (an undocumented Excel "feature"). Drag any field in the table to change the color back.

Change an Item Name

Select an item in a row or column of the table and type a name that reflects its meaning in your context. Once the item name has changed, you can identify the original name by

drilling down to the underlying data and finding it in the column for the source field. Name changes like this remain in place even through data refreshes.

Retrieve Hidden Page Fields

The easiest way to retrieve a field is to find it in the pivot table field list and drag it into your report. However, another trick can save you time: If you know the name of the field you wish to retrieve, you may select any page field and type the name of the field *exactly*, as though you were changing the name on the field button. Instead, MasterMine recalls the hidden field and moves it down .

Re-size Cells to Fit Data

Cells sometimes do not automatically re-size to fit the data, resulting in a display of ##### signs (if columns are too narrow) or a table full of space that extends far to the right of the screen (if columns are too wide). Also, Notes fields tend to be too wide to work with conveniently when placed in the Row Area. Hit the “Optimize Columns” button on the MasterMine ribbon to quickly re-size columns to fit. Likewise for columns on drilldown sheets, “Optimize Columns” is available on the “Design” ribbon under “Table Tools”.

Set Subtotaling Behavior

Select a Row or Column field, right-click it and select “Field” in the submenu. Indicate Automatic or None to add or remove subtotaling for the field, and click OK.

Add or Remove Grand Totals

Right-click anywhere on the table and use the submenu item “Table Options”. Select or de-select the appropriate box for “Grand totals for columns/rows”.

Include Hidden Items in Totals

You have the option of hiding page field items in a table. By default, hidden items are excluded from totals. To change this setting for the whole Pivot Table, right-click on the table and select “Options” from the submenu. Check or uncheck the box by “Subtotal hidden page items.”

Format Numeric Field Items

Right-click a data item you wish to format and select “Field” on the submenu. Then hit the “Number” button and format the numeric data in the field as desired.

Working with Notes

Notes fields in GoldMine are special because they are of indefinite length. This poses unique problems for reporting, which are discussed at length in Appendix E of this user manual.

Data Management

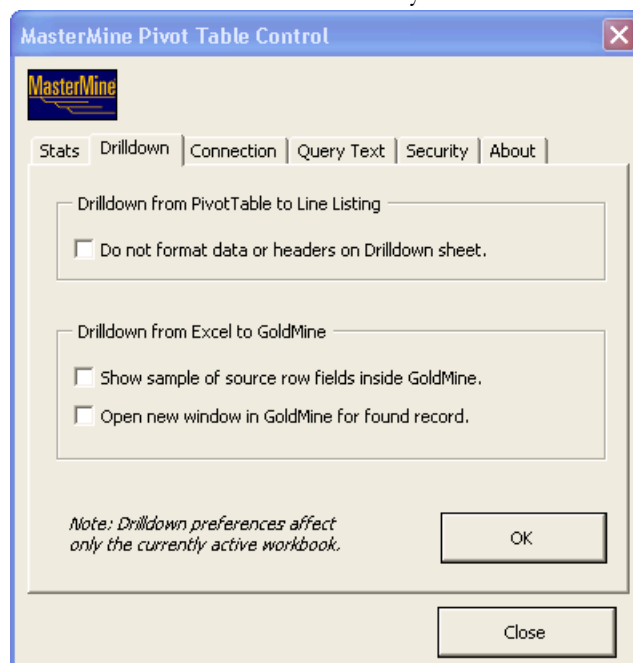
MasterMine can not only easily creates traditional-style reports from your GoldMine data, but also can interacts with reports and with the data itself, including directly changing and reorganizing the data within GoldMine. Here are a few of the key techniques:

Drill-Down

Double-click on any numeric or date item in the Data area that interests you. MasterMine creates a new worksheet, giving a line-item view of all underlying data for the item selected on the PivotTable. The column heads are your fieldnames as they appear in the pivot table version of your MasterMine report.

The drill-down screen itself can be viewed as an instant report, as in “Give me a list of...” Columns appear in the order they are listed in the underlying query. You can control this order either by sorting the fields at the time you create the report, or by modifying the underlying query using MSQuery as described in a later chapter.

If you have substituted new labels for any of the fieldnames or for field items, the substitute name will appear in the drilldown sheet by default. This feature can be turned off so that you see the “raw data” instead.



You have several options regarding how to display data in a “drilldown sheet”, which you can control in one of two ways: From inside a drilldown sheet, double-click on the header row (row 1). Or, from the pivot table sheet, click on the information button and go to the “Drilldown” tab.

Check “Do not format data or headers on Drilldown sheet” to ignore field or field item substitutions, as well as field item formatting (e.g. formatting of numeric items).

Drill Through to “Pop” GoldMine Records

Double-click on any cell in any record on the first Drilldown worksheet to “Drill down to GoldMine.” If the record is linked to a particular GoldMine contact,

that record will “pop” in GoldMine. That is, control switches to your active GoldMine application and MasterMine queries the record by account number. Excel remains active in the background, and you can safely switch back and forth between the two.

In the drilldown preferences mentioned above, you can “Show sample of source row fields inside GoldMine”. MasterMine displays a list of the first eight to ten fields from the drilled-down row, thereby giving you a reminder of key information that may help you find the related information within the GoldMine record.

“Open new window in GoldMine for found record” (not available on GoldMine PE) opens a new contact window to display the report record, instead of switching away from the current record in GoldMine.

In rare instances, GoldMine calls up the record with the account number *nearest* the one you are seeking, but not necessarily the same one. MasterMine will check the account number against the target and alert you if it does not match. This might happen if your report uses old data, or data from a database other than the one currently being used by GoldMine.

If you receive this warning, check in GoldMine under File Open to make sure your open GoldMine database is the same as the target of your MasterMine Pivot Table. For some reports involving pending and completed activities, there may be a “Linked to Contact” field in the PivotTable that you can set to “Yes”, meaning “include only records linked to the currently open GoldMine contact set.”

Create and Use GoldMine Groups

Built into GoldMine is an ability to process or update GoldMine records in groups, from two to two hundred thousand (as many account records as you have). Some important functions that are enabled by creating GoldMine groups:

- E-mailing campaigns can be managed by using GoldMine Groups together with GoldMine’s e-mail client.
- Records can be mass-updated (Contact-level only – that is, Contact1 and Contact2 fields) by using GoldMine Groups together with GoldMine’s “Global Replace” function.
- Calling lists can be created or pending activities scheduled for users by creating GoldMine groups.
- GoldMine’s “Export” feature can be used with GoldMine Groups to export a targeted segment of records for, say, mailing or transferring to another database.

See the GoldMine user manual for help with these functions.

Note also that MasterMine reports can be based on either a GoldMine Filter or a GoldMine Group, so you can use this feature to make other MasterMine reports easier to produce.

Within GoldMine, creating Groups requires either some technical knowledge (the logic of building a SQL query) or a great deal of patience (clicking on individual records and adding them one-by-one to an existing group).

MasterMine vastly increases the power of these functions by allowing you in seconds to define a complicated target set of account records (using the slicing-and-dicing capabilities of the pivot table), then drill down to a line listing of the records from which you can pick a subset or send the entire set of records to be grouped.

Group Creation: In your pivot table report, select items in the Page area and include fields in the Row or Column areas to define segments graphically. By showing the number of records that meet your criteria or many potential sets of criteria, this replaces the work you would normally have to do creating many complex SQL queries to isolate your target records. From there, drill down to a line-listing page, showing a row-by-row listing of the target records.

You may wish to aggregate records from several different cells in your pivot table into a single GoldMine group. Do this by grouping items (see Grouping Field Items, page 101) within the pivot table to bring them all into a single subtotal, then drilling down on the subtotal. Alternatively, you can drill down on separate items, creating separate drilldown sheets, then copy/paste data from one sheet to another. If you use this method, be sure to create only one header row, in row 1.

MasterMine will create a new group in GoldMine out of the records on this page.
Please supply a valid GoldMine group name below.

Group Name: E-mail These

Sort Members By: OnDate (Optional)

Reference Field: None (Optional)

Group Code: MM

Assign to User: ROB

OK Cancel

Once you have created a drilldown sheet displaying your target records, simply hit the GoldMine Group button on the MasterMine Drilldown ribbon, and specify a name for the group. You may optionally specify a field (only if it is part of the original query) that will be used to sort the group members, as well as a field whose items can help you to reference records once you return to GoldMine.

Group Selected Rows: If you want to build a group on only some of the rows represented in your MasterMine drilldown screen, highlight the rows or individual cells in only one column, for the rows to be included. MasterMine will detect that you have done so and build the group of only the selected rows.

MasterMine creates only one group member for each account number appearing on the page. It colors the rows of would-be “duplicate” members blue, and the rows of members not found in the current GoldMine contact set red. This means you can safely create non-duplicated groups even from activity-centric reports or from any other kind of report that would contain more than one row per GoldMine account.

Once you have created the group, switch over to GoldMine itself. The Group you created is sorted under the group code (by default, “MM” – some users like to use the date to help identify groups that might be kept for a long time), and may be activated using normal GoldMine procedures.

There are many potential uses of groups in GoldMine. You now have a capability that makes creating them far easier and faster, even without technical knowledge.

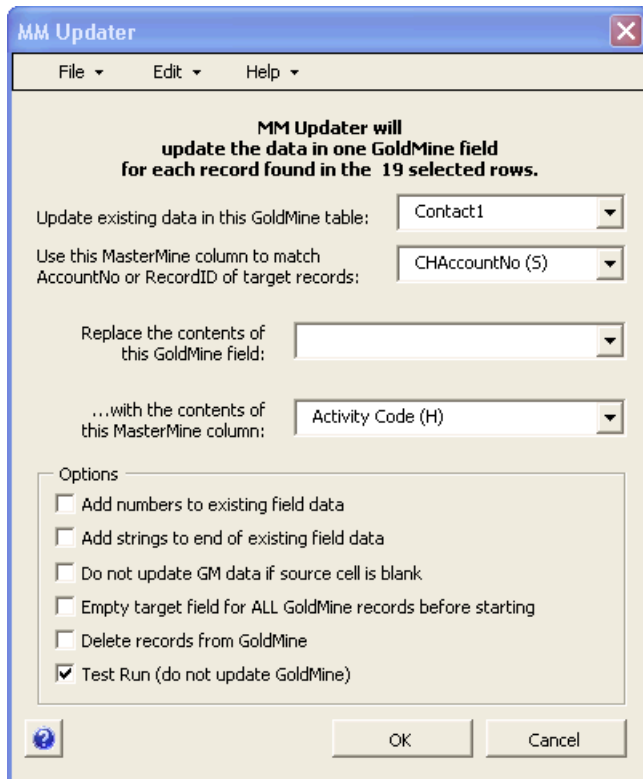
MMUpdater

The combination of MasterMine to build GoldMine Groups, and GoldMine’s built-in Global Replace capability is powerful – but limited. You can use it to modify data only at the account level. Sometimes you need to update pending or history activity data, data in your custom profiles, or data in your opportunities or projects. MasterMine offers an optional component to handle this need, which also makes it even easier to modify Contact1 and Contact2 data in a single step.

If your GoldMine administrator has licensed you to use MMUpdater **and you have Master rights as a GoldMine user**, you can use MMUpdater to mass-update records in almost any GoldMine table.

Remember: Always back up GoldMine data before making mass changes. It is much easier to restore a database from backup than to recover lost or damaged data record by record!

On any drilldown sheet, use ordinary Excel processes (including simple typeover, drag-fill, find/replace, cell formulas, etc.) to change data in any cell. Typically, changes like this will be made in a single column at a time. When finished making changes for a column, highlight the entire column OR only the changed cells containing data you want to push into GoldMine. The selected cells need not be in contiguous rows, since you can use



Ctrl-click to highlight cells one at a time or Ctrl-drag-select to add groups of cells to the highlighted set.

With cells highlighted, click MMUpdater on the MasterMine Drilldown ribbon.

Update existing data in this GoldMine table: Select the target GoldMine table to update. Tables are labeled with both a user-friendly name and the technical database table name.

Use this MasterMine column to match AccountNo or RecordID of target records: A MasterMine report field containing the normally-used “match field” for the selected table will be displayed in the second field. In most cases, the default selection here is the correct one to use when MMUpdater looks up your target record in GoldMine. For the Contact1 table, the AccountNo is used. For any other table, a RecID is required. MasterMine labels RecID fields as “CXRecords,” where CX corresponds to the key table in the query behind the MasterMine report you are using. In some rare instances, you may have a variety of match fields to choose from if your MasterMine report includes multiple AccountNo

or RecID fields.

Replace the contents of this GoldMine field: Select the target field in GoldMine to be updated. The list of fields here is all fields in the table you selected above, showing both user-friendly labels and database field names.

...with the contents of this MasterMine column: Defaults to the name of the worksheet column containing your highlighted data. You may select a different column than the one that defaults.

MMUpdater Options

The following options can all be set to default differently in “preferences” by clicking the preferences menu.

Add numbers to existing field data: If the target field is a numeric field, the value from the MasterMine worksheet is added to (rather than replacing) whatever value is already contained in the target GoldMine field. This feature is invaluable for aggregating data from many records in to single, contact-level field (i.e. sale records for a whole year, saved into “Last Year Sales” field).

Add strings to end of existing field data: If the target field is a character field, the value from the MasterMine worksheet is linked with (rather than replacing) the value contained in the target GoldMine field.

Do not update GM field if source cell is blank: If a blank cell is encountered on the spreadsheet, do not update GoldMine, which would wipe out the value in the GoldMine cell. This can be useful if you selected an entire column in MasterMine before using MMUpdater, and you are not sure if your selection includes blank values.

Empty target field for all GoldMine records before starting: Use this when updating a field in GoldMine that will be used for aggregate reporting. In effect, this resets this field to blank for all records before MMUpdater processes.

Delete records from GoldMine: Rather than update a field in the target table, you may wish to delete the record entirely. This can NOT be used to delete account records from GoldMine, but can be used for most other types of records. Note that “record” here refers to a row of information in a GoldMine table typically corresponding, for example, to a single activity on the Pending or History tabs in GoldMine, or to a “profile” record on the Details tab or an Opportunity record or sub-record.

Test run (do not update GoldMine): By default, every time you use MMUpdater, this option is checked on. If you leave it checked, you WILL have another opportunity to commit changes to GoldMine, after viewing the before/after on a log sheet. We recommend leaving this value checked when making important changes.

When you click the “OK” button, MMUpdater passes through all selected records and (if Test run is unchecked) updates the data in GoldMine.

MMUpdater Logsheet

As it processes records, MMUpdater creates a “Logsheet” that displays your data in “before/after” form. This allows you to double-check that your intended changes are really the ones that will occur. It also provides you a to keep in the workbook, so you know what changes were made on this date.

If you did a test run, you can now commit your changes to GoldMine from the Logsheet by clicking “Finalize” on the MasterMine Drilldown ribbon. A dialog appears asking if you are sure you want to update GoldMine. You may also update only a subset of the displayed records on your Logsheet, simply by deleting the rows of any records you do not wish to update from the Logsheet.

Undo Changes

If you have made updates to GoldMine, as long as the Logsheet exists and undo has not yet been performed, you can undo these changes in GoldMine. To undo, click “Undo” on the MasterMine Drilldown ribbon.

You can save the Logsheet within your MasterMine workbook as long as you wish. That is, you might save and close your workbook containing the Logsheet, then open the worksheet some days later, activate the Logsheet and click “Undo” on the MasterMine Drilldown ribbon.

Ideas for MMUpdater tasks:

The most common process is to type over the data in cells you wish to update in GoldMine. However, if you apply some imagination you can use MMUpdater to accomplish many other useful functions.

Note that MMUpdater does NOT require you to update data “in-place”. That is, you may insert a new column in your spreadsheet and use Excel formulas to construct an entirely new value from other data on the spreadsheet, or a calculation of some kind. If you do, make sure you add a header in Row 1 and format that header the same as others in the row.

You may also update, for example, a Contact2 field with the “total sales” to a given client for a particular date range, thus allowing GoldMine users to see within the contact record an accurate number representing total sales for the client. This may also help you create some otherwise tricky reports, since you can use such fields in a new MasterMine report to correlate, filter or sort on sales figures together with other demographic data.

A final example is a common real-life GoldMine need – updating codes in data to match a new coding schema for pending or completed activities. Say your organization sets up new rules for coding completed calls, including a new set of “Activity Codes” and “Result Codes.” Does your existing data simply go to waste because records did not conform to

the new way of doing things? This could cause you to lose valuable historical information about the activities recorded in your database.

With MMUpdater, starting with the pivot table itself, you can conveniently group or re-group your old codes under labels corresponding to your new codes. Some other information (i.e. from the Reference or some Contact field) may be needed in the pivot table to subdivide the data along the new lines. When you have grouped and filtered in your pivot table as necessary to get your data appropriately re-grouped, drill down and use MMUpdater to mass-change the old historical records to the new coding. Now you can apply current metrics that go back in time beyond when you actually started using the codes, possibly even to the earliest time your company used GoldMine.

Chapter 10

Deploying, Sharing and Managing Reports

Sharing reports is a vital part of any reporting solution. Even a single MasterMine user needs to deploy frequently used reports for easy recall, rather than creating reports anew every time they are needed. Because MasterMine gives end users much more flexibility even with the most basic form of each report – that is, the ability to “pivot” and drill down – you have several options for deployment.

Each MasterMine report has both the path to the GoldMine data stored within it, and the ability to be automatically refreshed. Being aware of this relationship helps you choose wisely among the following options:

Don't distribute. Deploy!

Too many organizations “bottleneck” all reporting through a single highly trained (or not!) report writing person or department. This results in only a handful of people getting information when they need it. The rest of the people depend on the availability of this person, as well as on their own ability to accurately describe information needed, the report writer's ability to correctly interpret it and other dubious factors, to get a report.

One of MasterMine's big advantages is that it breaks this bottleneck, putting much more power and flexibility into the hands of the end user who needs the information. The key is to send a live, refreshable changeable report to the user so he or she can “run” their own report as needed with a simple button-click. Since anyone can learn MasterMine's most basic moves (refresh, drill-through), any user can turn a single, simple report, deployed to them by a Full Licensed user, into a wealth of information that is literally at their fingertips.

A common workaround for companies with a shortage of “report writer” skills is to print reports on a regular basis, say weekly or monthly, and force users to accept the printed reports, even if they are obsolete, as the only information available to them. This not only gives users inaccurate reports but such centralized reports typically get muddled with information for various users, who need it presented differently for each of their jobs. At the same time, it forces all users either to “make do” with a multi-use report that only partially serves them. Eventually it becomes a bureaucratic process (printing and distributing copies of a compromise report) instead of a dynamic solution to each person's unique information needs.

With MasterMine, you can use Excel's native “SaveTo” capability to save a unique version of a report to any disk location where another licensed MasterMine user has

access. The user can launch the report at will, with current data and reorganize it on the page as needed. The original “report writer” person need not be involved after the initial creation process.

We urge you not to waste MasterMine’s end-user flexibility by restricting MasterMine usage to a single or only a few users. MasterMine provides inexpensive “share” licenses for precisely this reason – to give end users the full flexibility of MasterMine without the responsibility of generating reports from scratch.

Sharing Reports

Each MasterMine report contains a “connection string” pointing to the original source of the data. This means that MasterMine reports can be stored anywhere, albeit only refreshed when the data is available along the same path used to create the report.

The most common way to share MasterMine reports is to store them on the same network location, or at least the same folder tree, for all users. The “SaveAs” location in your MasterMine preferences determines the default location of MasterMine reports.

The next most common is to use the “Share Report” button under “Deliver” on the MasterMine ribbon. The process is very simple: With the report already created and formatted as desired, click the Share Report button and answer the prompts in the dialog. See the full description of this dialog under “Deliver” Ribbon Group on page 69.

In GoldMine Corporate Edition (version 7.0 and lower), the GoldMine taskbar is built to mimic a taskbar in Microsoft Outlook. If your taskbars are turned off, you can activate them by going to the “Window” menu and clicking “Taskbar”.

You may also distribute reports by attaching them like any other Excel document to outgoing e-mails. Be aware, though, that recipients must be licensed MasterMine users, or they will not be able to open the file.

Reports may also be distributed via GoldMine synchronization. To do this, attach a report as a Linked Document, or link it to a page in the GoldMine Knowledge Base. Such deployment follows the ordinary rules for linked documents in GoldMine, in particular this: Files are synchronized to other users NOT every time they are changed but rather each time they are LINKED to a GoldMine record or to the Knowledge Base. Keep this in mind when planning an enterprise-wide distribution scheme.

Opening Existing Reports

MasterMine reports are saved in a way that requires them to be opened using the licensed MasterMine application. Even though MasterMine reports are stored in Excel workbooks, they are protected from viewing or manipulation by unauthorized users. Attempting to open a MasterMine report directly in MS Excel results in the report opening, then immediately shutting down without displaying any data.

There are two typical ways to open an existing MasterMine report:

Open via Windows dialog

Click “Open MasterMine Report...” on your “View” (GM versions 7 and lower) or “GoTo” menu to open a standard Windows directory dialog and navigate to your report. By default, this dialog opens to the stored “SaveAs” folder designated in your MasterMine preferences.

You have all the usual file-handling capabilities in this dialog, so in addition to simply opening existing workbooks, you can copy, paste, move, rename or delete files as needed. To open an existing workbook, double-click on the filename or select it and hit “Open”.

If you have MasterMine reports saved elsewhere, you may navigate within the “Open” dialog to another folder on your system.

Launch from a GoldMine Taskbar

An even easier way to open a MasterMine report is to launch it from a taskbar icon, requiring merely a single click. Even the least-computer-skilled person can launch a MasterMine report from a GoldMine taskbar.

To get the most from your GoldMine database, and to avoid duplicating work, MasterMine users should share reports by frequently “deploying” them to their own or other network users’ GoldMine taskbars. This is also one of the best ways for an experienced report “creator” in MasterMine to share reports with less experienced users.

Refreshing Reports

Unlike with traditional report generators, it is not necessary to create a new report every time you want to see your information in a certain format. If you have already run a workbook and formatted reports to your satisfaction, simply select “Open MasterMine Report...” from the GoldMine menu and select a report you have already formatted and saved.

You can refresh your report several ways:

1. After opening the report, hit “Refresh” or “Refresh All” on the MasterMine ribbon. A counter on the bottom of the screen indicates refresh progress, so you can anticipate how long this will take.
2. You can set the report to refresh automatically every time it is opened, or on a periodic basis while the report is open, by checking the appropriate boxes in the “Pivot Table Options” dialog. Find this dialog by right-clicking anywhere on the pivot table and selecting “Table Options...” from the short menu.

When you save a formatted report, be sure to **change the name** to reflect more closely what you use it for. This way, it won't be accidentally overwritten when you create a new report of the same type.

Copy and Send Reports Outside of MasterMine

Sometimes you need to share the results of a MasterMine report with a non-MasterMine (or even non-GoldMine) user. The easiest way to do this is to use the "snapshot" feature on the MasterMine ribbon under "Deliver" to generate a non-MasterMine workbook containing the report. The snapshot can be attached to an e-mail or copied to another user the same as any Excel workbook.



Modify Underlying Query

Once you have created a MasterMine report, you are typically finished with SQL expressions for the purposes of that report. The rest of your “slicing and dicing” is handled graphically within the pivot table. With a well-chosen “base query”, using the pivot table functions gives you many of the same results formerly available only to those who could build a sophisticated SQL query.

With this in mind, there are often cases where a report could be made more efficient, or updated, or easily improved by modifying its underlying query. Rather than go back to the report creation dialog and start over, it’s sometimes better to tweak an existing one. For that purpose, Microsoft Excel has the MSQuery utility.

Working With MS Query®

MSQuery is a graphical SQL query builder, provided by Microsoft to manage the query that underlies pivot tables. With MS Query, you can more closely define the data set returned from your GoldMine database. With this capability, you can:

- Further customize reports built from MasterMine’s templates to use the unique user-defined features of your own GoldMine installation.
- Make your Pivot Tables as efficient as possible in handling larger database files.
- Vastly increase the power of all your analyses by zeroing in on key data relationships that otherwise cannot be represented in Pivot Tables.

You can pre-format the data in various ways, take part or all of a given field’s data, or perform calculations on it in combination with other fields. You can also change the criteria by which data is included or excluded from the query, and integrate data tables from other sources within or outside of GoldMine.

This is very powerful stuff, but...

WARNING: Changing the underlying query for your PivotTable is a valuable skill best left to trained users. Accurately applying the more powerful actions in Query requires some knowledge of GoldMine data structures and some familiarity with basic dBase or SQL functions like `mid()`, `left()`, `right()`, `trim()`, etc.

We encourage free-form tweaking with reports from MasterMine templates, but bear in mind that your own workbooks contain the aggregate effort you have put into them over

multiple sessions, including your own groupings, data labels, etc. If you change the query that underlies any Pivot Table and get an improper result, and then save your workbook, you will not be able to recover the lost report without rebuilding it yourself. This is the only way you can ruin an otherwise functional report in MasterMine.

If you are not confident in your skills with MSQuery, we encourage you to seek further MasterMine training either with your GoldMine Solutions Partner or from MasterMine directly, or have us prepare some customized templates for you.

Technical Note

MSQuery is a wizard for building query statements using a simplified set of SQL (System Query Language) conventions, called Transact-SQL. The syntax of your Transact-SQL statements will vary depending on the underlying database type GoldMine uses. The currently supported GoldMine versions (v7.0 and higher) use Microsoft SQL or a variant (SQL Express or MSDE depending on SQL version) as its database engine. Older versions of GoldMine used dBase as a database engine, so MasterMine was built to work as seamlessly as possible with both “back ends”.

MSQuery uses ODBC (Open DataBase Connectivity) data drivers, which are supplied with various releases and service packs of MS Office, to connect to the GoldMine database. If you have trouble with some templates or difficulty setting up your own Pivot Tables, especially if you are working with an older version of Excel (like Office 2000 or 97), outdated drivers may be an important cause. Get the most recent service pack from Microsoft!

Fairly technical users may be already familiar with Transact-SQL, and so will be very comfortable operating in the MSQuery environment. Even if you are such a user, note that MSQuery has important limitations that may prevent using syntax that works in other situations. It is often best to use the graphical interface rather than typing changes directly into the SQL text. In this way, the most MSQuery-compatible syntax is automatically inserted.

If you find that something you’ve done really should work but doesn’t, paid support is always available from MasterMine to get you unstuck.

Modifying Your Query

Following is a series of functional instructions to achieve specific results with MSQuery that can’t be achieved any other way. We cannot provide a complete guide to using MSQuery, although help is available directly from Microsoft. Formal MasterMine training at the higher levels includes significant work with MSQuery, in order to enable users to achieve almost any report configuration imaginable.

Accessing MSQuery

1. With your cursor anywhere on a PivotTable, click “Edit Query” on the MMTTools ribbon.

2. Click “Back” and then “Get Data...”
3. You may encounter an error that says “Query Wizard is unable to open the query” or something similar. Click “OK”.

This opens MSQuery and contains the data previously queried. Once MSQuery is loaded, you can do any of the following:

Resort Columns for Drilldown

The order of fields in a query is significant in several ways. Sorting fields within your query affects the order of the fields as they appear in your Pivot Table Field List and, more importantly, the order of columns in your drilldown sheets.

To re-sort fields in your query, click once on the column header of a field in MSQuery. Once it is highlighted, you can grab the field with another click and, while holding down the mouse button, drag the field left or right to another location.

Add Fields to a Query

You may wish to include additional fields in a query for several reasons, among them:

- To include some regular GoldMine fields that were left out of the “base” MasterMine template
- To include customized fields in Contact2.dbf beyond those distributed with GoldMine originally
- To summarize on a date field grouped both in Months, Quarters and Years as well as in day groupings (like 7-day weeks), you need an additional instance of the field in order to group

In Query, just below the toolbars, find the box for the table that contains your target field. (If the table is not present, reconsider whether you started with the right template!) In the list box under that table’s name, find the target field, click and drag it down to the column area.

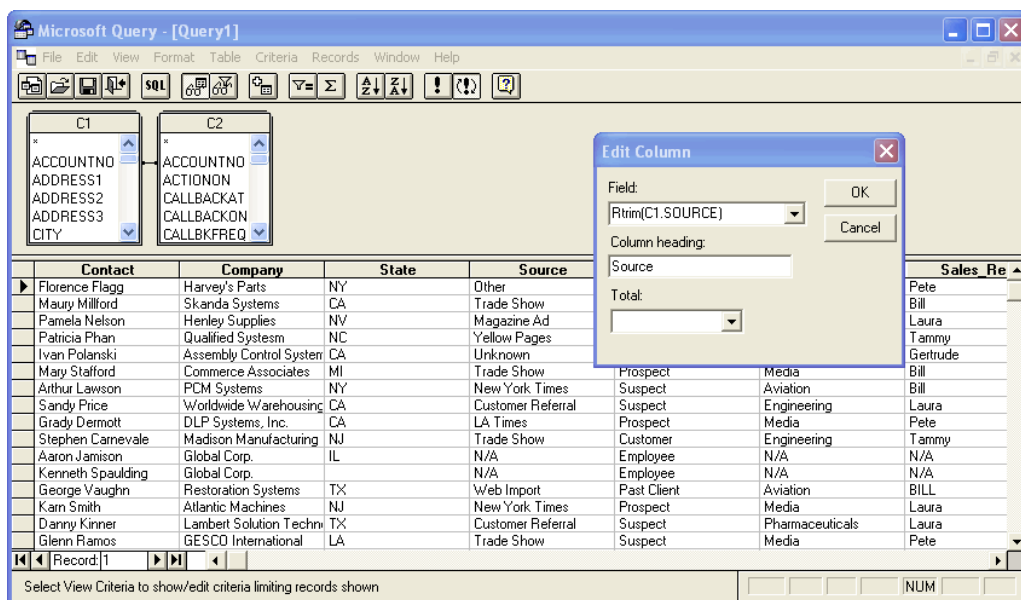
To make any adjustments, such as to specify a dBase or SQL expression using the field’s name, double-click on the column head and change the field name to the desired expression.

Apply SQL or dBase Functions and Expressions

Once you have added a field to your report, you may wish to apply functions. You must know SQL or dBase expression syntax to accomplish this, or use a reference book that covers these functions. There are a number of such resources online.

In this example, we will change the source field to return only the first three characters of GoldMine’s source field. With MSQuery open, showing sample data below with each column topped by a “header”, open the “Edit Column” dialog by double-clicking on the field header you wish to modify.

In the picture, the user has double-clicked on the “Source” field header, bringing up the “Edit Column” dialog. In this dialog, the user can change the field expression by making changes in the box labeled “field:”, thus altering the data that is returned. To return the first 3 characters of the Source field, the new syntax would be:



Left(rtrim(C1.SOURCE),3).

Left(rtrim(C1.SOURCE),3).

Note that the new expression contains two nested functions, including the original one, Rtrim(), which trims trailing spaces from the C1.SOURCE field.

As long as we are changing the contents of the field to be returned, it is also logical to change the column heading (the field name returned to the MasterMine report) to reflect the new contents by typing a new word or label in the “Column heading” box. In this case, it makes sense to change the heading to “Source3”.

When finished, click “OK” and MSQuery will automatically re-query the data. Check the new returned data below the header to make sure it is the desired result.

Adding or Changing Selection Criteria

On the menu above, click Criteria | Add Criteria

Select the desired Field, Operator and Value from the list boxes provided. You may enter a dBase or SQL expression instead of the Field name.

Simple Example:

You want to include only Sale records in the Cal Database that are scheduled to occur before the end of 2001. Add two criteria as follows:

Field:	RECTYPE	OnDate
Operator:	Equals	is less than or equal to
Value:	S	#12/31/01#

Complex Example:

If you want to limit your query in ContHist to include only sales of more than 10 Units, enter as follows:

Field:	if(ContHist.UNITS is null, 0, val(ContHist.UNITS))
Operator:	is greater than
Value:	10

The dBase expression is necessary because you need to make a numeric comparison with Units, which is a string field. (As a string, '2' evaluates as greater than '10'.) Also, because UNITS may be null in some cases, the val() function will not interpret it without special handling.

Adding Tables

MasterMine provides templates for all key GoldMine database files in most useful combinations. If you are building a report from scratch, careful selection of your template makes this step unnecessary. However, if you already have a report you wish to modify, or you wish to include .dbf files from outside GoldMine, here's how to do it:

Click on the menu Table. Add Tables.

Select the table you wish to add, even if it is outside the currently selected contact set, and click **o**nce on the Add button. Even if you don't see it yet, you have already added the table. (Drag the "Add Tables" box to the side to check.) Now hit the Close button.

Your query now includes one record in each table for every one in the other table. This is probably not what you wanted, so you need to specify a link, or "join" between the tables in your query, as follows.

Adding or Adjusting Joins

Joins are tricky, and they can lead to misinterpretation of your data, so read closely:

A "Join" defines the relationship of one table to another, usually through a key field (or fields) that appear(s) in both tables. To specify a join, click on the key field in one table and drag it onto the corresponding field in the other table.

For example, both the Cal and Contact1 tables contain an "ACCOUNTNO" field. Most Cal records are "linked" to the Contact1 database through this Account number, which is unique in Contact1 (and Contact2, for that matter). Drag ACCOUNTNO from Cal onto ACCOUNTNO in Contact1 and drop it.

You have created an "Inner Join", which means that only records with at least one "mate" in the other table are included. In our example, this excludes records (for instance, GoldMine e-mail messages) in Cal that are not linked to any record in Contact1,

or that are linked to records in different contact sets. It also excludes Contact1 records that have no pending activities linked to them.

The other kind of join is an “Outer Join”, which includes all records from one table and only records in the other that have a mate in the first. To see ALL of the records in your main selected table, you must specify an Outer Join; otherwise, you may trick yourself into thinking you are seeing all data when you are not.

To re-define your join as an “Outer Join”, double-click on the joining line between the two table boxes in MSQuery. Using the three radio buttons in the Join window, select the type of join you desire and click Add, then Close. If you selected an Outer Join, the connecting line between the tables is now an arrow.

Notes on Joins:

Only inner joins are allowed when the query includes three or more tables.

MasterMine templates based on Cal.dbf use only inner joins by default, since installations with multiple contact sets include many pending records that don’t relate to the selected contact set. It may sometimes be useful to use outer joins to view the entire schedule regardless of contact set.

MasterMine templates based on ContHist.dbf use only outer joins by default, except where one or three tables are involved.

To summarize:

Inner Join: Includes only records with counterparts in both tables.

Outer Join: Includes all records in one table and only records in the other that have a counterpart in the first.

Finishing Query Changes and Returning Data

If you are happy with the result of your changed query, you can return the data to your Pivot Table from the new query by clicking File | Return Data to Microsoft Excel.

To cancel without returning new data, click File | Cancel and Return to Microsoft Excel.

Now, from the wizard, you must include any new fields in your Pivot Table by clicking “Next” to get to “Step 3 of 4” and arranging the fields for the new table as desired.

Formatting After Query Modification

- Your new fields will remain “hidden” if you do not explicitly place them in the Page, Row, Column or Data areas.
- Any changes to field names or dBase expressions invalidate previous aliases you may have assigned. These fields must be re-introduced to the Pivot Table active areas and given new aliases.
- When done, click “Finished” to see your Pivot Table refreshed with the new data.
- You may wish to leave your user-defined field buttons black or, for consistency, to re-format the color to match the appropriate source database. Use the table of colors under References: GoldMine Data Sources as a guide.

- If you have changed the tables or selection criteria, we recommend refreshing your MasterMine Display Box to reflect the changes. Otherwise, you may misinterpret future reports taken from this data. To refresh, click once on the yellow down-arrow button on the Display Box at upper right.

Redirect to a New Data Source

You may occasionally need to redirect a MasterMine report to a new data source. This might happen, for instance, if you install a new version of GoldMine and re-host data to a new server. Especially if you have a lot of reports with sophisticated setup in them, you might want to preserve that work by “re-pointing” to the new data source.

You can minimize the amount of effort necessary to do this if you follow a few rules:

For SQL databases:

- Do not rename the GoldMine database itself if possible.
- On your new server, create usernames and passwords that are the same as on your old server.
- Unless you need to for security purposes, avoid using specific database owner names instead of the default “dbo”.

For dBase databases:

- Keep a copy of your old database accessible during the turnover period, so that old reports can still be opened long enough to re-redirect them to the new data.
- Because querying dBase data across a network can be very slow, consider deploying reports to the same server on which the data resides.

If re-hosting from dBase to SQL:

Plan to re-create your reports from scratch, as the underlying query needs to be created in a completely different syntax than the one in which it started. While it is technically possible to preserve an existing report and replace the “back-end query” with a new one, this method contains many potential pitfalls and should only be handled by an experienced technician. Contact MasterMine Software if you wish us to do this for you.

With these suggestions in place, here are some technical notes that may assist you in redirecting your “data pointer” within an existing MasterMine report:

If you followed the advice above and the only change in your data location is the SQL Server name, you can easily redirect reports by opening the Information Display Dialog (see The MasterMine Pivot Query Display, page 83) and going to the “Connection” tab. On this tab, overwrite the old Server name value with a new one and click “Apply

Changes” below. When you next refresh, your report is current and can be saved in the same location as the old one.

If you changed both the GoldMine database name (SQL) and the path to the GoldMine data (dBase), you need to change both in the underlying query. We recommend calling MasterMine for online help to do something this significant.

Chapter 12

Managing Your GoldMine Business

MasterMine reports can be used to improve management productivity and effectiveness in a variety of areas: data mining; simple, daily reporting; and data integrity testing. You may find that your own best uses are not even on this list. Keep your eyes and mind open to new opportunities to learn about your business at all times.

Introduction to Data Mining

Data Mining is a relatively new concept for most business managers, but a very powerful one. Simply put, Data Mining is about knowledgeably digging through and arranging your data to elicit information about every aspect of your organization. MasterMine gives you a tool to do just that.

Data Mining asks the same questions you've been asking all along: How are we doing? What are we doing well? Where are the hidden weaknesses in our business processes? What parts of our processes should be getting priority attention? How can we use past experience to anticipate the future? How can we do more of what has worked in the past and stop doing what does not work?

Keep these questions in mind as you creatively explore the views and insights MasterMine gives you about your data. Start with the familiar--a sales projection report or calls analysis report for instance, and see how you can slightly alter your viewpoint to identify a new opportunity or anticipate a problem. Suddenly, you'll realize that, up until now, you've been "flying blind," and the static management reports you had been using seem woefully inadequate to your most important task: overseeing and guiding your business process as it happens.

Other chapters cover the mechanics of manipulating your data with MasterMine. This one helps use your creativity and unique knowledge about your business to turn MasterMine into your most powerful management tool.

Data Mining Techniques

The key to Data Mining success is recognizing the important relationships in your own company and expanding your reach from there. These relationships are often expressed with phrases like “Key Progress Indicators” or “chokepoints”. Your old, static management reports are probably the best starting point of where to look.

Look at your old reports and ask yourself, “If I could alter this report slightly--see the same data for only one division for one user or group of users, for one lead source, for just this month, or for this month next to last month or the same month last year...”. The possibilities quickly become apparent.

How are your users grouped in your business? Group them the same way with MasterMine. Compare their performance against each other, and show trends over time.

What business processes do the reports show? Calls per day and hour? Sales follow-ups by month? Use MasterMine to compare plans, projections and goals with reality.

Also, consider reporting problems that you have had in the past. Are you getting too many reports that tell you only partial information or that require you to juggle several printouts to find out what you really want to know?

As you get on top of what’s currently happening in your business, you may move on to planning for the future by asking “What if...?” If so, you can use your MasterMine-derived data as a source of realistic “givens” while you build scenarios and models to consider different possible outcomes from altering one or two variables. A highly skilled Excel user can use MasterMine together with other scenario-building tools built into Excel to reliably plan for the future based on solid information about the past.

The Art of Presentation

Discovering important facts about your business is often more an art than a science. When working with pivot tables, your changes from one report to the next are so immediate that you can easily let your creativity take over, without fear of “messing something up.” You can consider this a legitimate expression of the “Art of Management” you often read about. As with any artistic endeavor, being technically proficient with the tools and techniques is only the start, but it opens up a whole world of satisfying creative opportunities.

Using the techniques described earlier in this manual, you can freely “dig around” in your data for nuggets of information that tell you about your business. We call the process of altering your data and placing it in interesting configurations “analysis”, as opposed to reporting.

Sometimes, you configure your data in a new way without clearly knowing what you want to achieve, but knowing that it ought to reveal something together. Suddenly, you make an important discovery after the report is done!

As you are exploring, be sure to periodically save your workbook and copy the current sheet for later use. This is very easy with the “Clone Worksheet” button on the MasterMine ribbon. It gives you a “snapshot” of your current report, allowing you to continue trying alternatives. You can collect the new reports thus generated into an aptly

named workbook (or move them to another existing workbook) by right-clicking on the tab and selecting **M**ove or Copy....

Finally, don't forget to add charts and graphs to your presentations, as these will often give you insight where mere numbers on the page can't. Don't assume that the purpose of a chart is always to make a grand presentation to someone else. Sometimes it can provide you with a key to understanding you would have otherwise missed.

Dynamic Management Reporting

MasterMine is to management reports what the internet is to television. You actively ask questions and probe (some say "surf" your data) rather than simply accept what's there. By adding interactivity, MasterMine can replace much of your static management reporting.

Apart from the sheer fun of "noodling" in your data, you should aim to create a series of dynamic management reports that give you a comprehensive view of the unique key processes by which your company operates. We can't dictate to you what these are, because your processes are unique, but these guidelines can help you work your way toward them.

Creating Functional Workbooks

By now, you know that dynamic management reports are much easier to create and manipulate in MasterMine than static reports created with GoldMine's built-in report generator or a third-party software like Crystal Reports®. MasterMine reports also refresh much more quickly and are easier to copy and modify. In addition, since they allow drilling down back to your GoldMine database, MasterMine reports can help you clean up your data instead of just showing it to you.

For a dBase installation of GoldMine, a new folder called "MasterMine" is created in the contact set folder associated with each GoldMine contact set. The folder contains a series of Excel workbooks (extension '.xls'), one for each template you have opened. The Toolkits that MasterMine provides give you an excellent start in developing this set, but you will quickly move beyond what mere templates can do for you.

Change the names of these workbooks to reflect the functions they serve. Some, like "Calls Analysis" and "Sales," are obvious. Others might look at your "Production Processes", "Customer Service", "Financials" or other data, and should be named accordingly as you build them.

Troubleshooting Reports

While you are still new to data mining, it is a good idea to double-check your results against your old static reports to be sure that you're getting what you think you are. If there is a lack of agreement between a MasterMine spreadsheet and a static report, here are several possible items to check:

- Make sure data is refreshed.

- Check the selection criteria (in the MasterMine display box) for the query against the parameters for your report.
- Check the selection criteria in the page area of the table.
- Check to see if you have hidden items in any of your fields.
- Check the logic of your table joins (see “Adding or Adjusting Joins” in Chapter 10).

Clean up After Yourself

Drilling down and using Show Pages can add many sheets to your workbook in a hurry. Remember to select these sheets and delete them before you finish working. Otherwise, you may find that your system RAM is quickly used up when you load the workbook again.

Presentation Features

Excel provides a number of formatting and display features that can help make very impressive presentations from MasterMine reports. You can learn about them in depth from the Excel help menu, or by using a number of fine books on Excel.

AutoFormatting

Once your data is arranged as you like it, you can select the most impressive format for presentation. Start by clicking anywhere on the Pivot Table and select menu Format | Autoformat...

Now you can choose from 16 different pre-defined formats for your data, or (at the end) none. Be careful: Excel has not yet worked out the details of combining autoformatting with Pivot Tables. So when you select “none,” your Pivot Table will no longer have borders. We hope Microsoft will resolve this issue in the next version of Excel.

Charts & Graphs

One of Excel’s most powerful features is its built-in charting capability. You can use your MasterMine reports as the basis for any chart. Data must be arranged in a similar fashion when creating an Excel chart.

Use the “PivotChart” button on the “Options” ribbon built into Excel. Set the parameters for your chart just as you would with an Excel chart.

Automatic Refresh

Setting a refresh time on your live reports gives you current information at any moment on key business processes without intervention on your part. Among the many formatting features available on your Pivot Table Options panel (right-click on the table and select “Table Options...”) is “Refresh every __ minutes” on the bottom left. This allows you to turn your dynamic report into a “real-time display”. Anyone familiar with Microsoft’s “Digital Dashboard” will appreciate how easy this makes building your own dashboard element.

Data Integrity Testing

Finding “Out-liers”

One of the most powerful uses of MasterMine is finding data that don't fit your company's prescribed policies or that are inaccurate simply because of data entry errors. Some can be merely irritating, while others (like a sales follow-up call scheduled in the wrong year or a missed appointment) might cost you money.

As you work with your regular management reports, you will often come across “out-liers”, odd records that stand alone in a schedule or that don't fit your regular data pattern. Before changing the data, check to make sure that the user who made the mistake is well informed about the correct way to enter data. You may uncover similar mistakes in a pattern that suggests training issues.

Next, to correct the errors you have uncovered, MasterMine's built-in Drilldown feature becomes very handy. Drill down to the original GoldMine record to correct the data. While there, check around for other errors in the same record.

Each successive drilldown creates new spreadsheets in your workbook. Don't forget to delete these when the data have been corrected. Then go back to the original Pivot Table and refresh the data to ensure that your corrections are made properly.

“Exception” Reports

You can also build reports specifically designed to uncover data “exceptions”. For example, by grouping Users according to function and running Pivot Tables that compare user groups against activity codes or date groups, you can find records that indicate activities outside the normal process.

The pre-formatted report called “Exceptions”, which is part of the Database Manager's Toolkit, provides a starting point for this type of report. Add new reports to Exceptions.xls as you develop them and check them periodically with refreshed data.

References

Appendix A: “Details” Tab Reporting

Reporting on Details requires special “setup” work to ensure that MasterMine reports properly reflect your information. GoldMine stores Details as character-based data. That is, even though you may have labelled it in GoldMine as “Birth date”, GoldMine does not prevent you from entering any data, not just dates, in the Birth date field.

Querying profiles from GoldMine is especially difficult for most report writers because profile fields are user-defined, with each field uniquely labeled. Being highly GoldMine-integrated, MasterMine detects the user-defined labels for your GoldMine profiles, and automatically treats them as though they were regular fields.

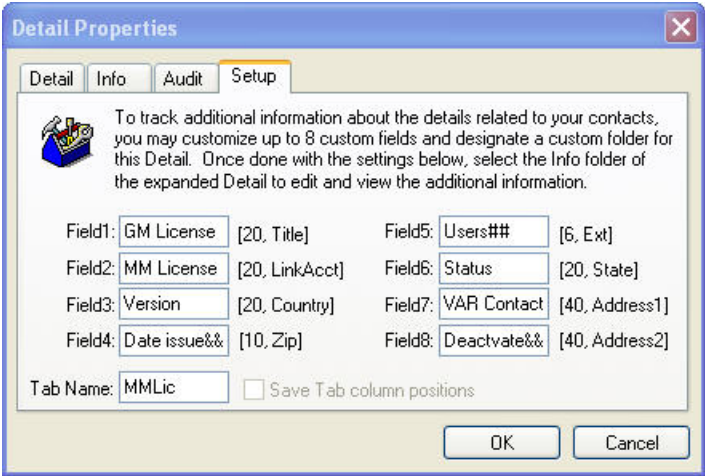
Dates and Numerics: GoldMine stores all Profile data as “character” data. That is, it does not give you the option of setting “Date” or “Numeric” types to fields, and therefore it is not possible to check data entry errors (unless you use Details Plus—see page 28 for more information). However, MasterMine helps you get around this limitation for reporting purposes.

MasterMine can automatically group dates and numbers logically and in regular units (year, month, 30-day group, etc.)—as long as fields contain only “Date” or “Numeric” type data. To force MasterMine to interpret a profile field as Date, indicate this preference by

adding the “Date designator” code to the end of the field name defined in the Detail Properties for the profile.

Date and numeric designators are defined in the MasterMine preferences, “General” tab. By default, these are “&&” for Date and “##” for Numeric, but you can change them to any other value in the Preferences screen.

For instance, you may want to change the date designator to the word “Date”. Be aware that MasterMine will then interpret any profile’s field label



ending in “Date” as a date.

Next, go to the GoldMine profile setup screen. Do this by starting to enter a new profile of the type you want to work with, then clicking the “Setup” tab at the top of the dialog.

Note that in this example, Field4, which corresponds to the Zip field in GoldMine’s ContSupp table, is labeled “Date issue&&”. The “&&” at the end of the field label tells MasterMine to treat the contents of the Zip field as dates for the profile called “GM Master License”. With this setup in place, a user can create a report on the “GM Master License” profile, grouping Licenses by date ranges of years, months, dates or any combination thereof. For any profile record that does not contain a legitimate date in the Zip (Date issue), whether because it was left blank or because there is a typo that makes the date illogical (i.e. January 34) a dummy value of “1/1/1989” will be substituted.

Likewise, the “##” designator at the end of Field5 (field “Ext” in ContSupp) tells MasterMine to return numeric data from the “Users” field, so that we can conveniently group Licensees in regular groups like 0-10, 11-20, 21-30, etc. Non-numeric values found in this field will be returned as 0 (zero).

As we’ve noted in the Installation Section, page 28 , you can bypass this setup and get better use of Details in GoldMine by using DetailsPlus, an add-on product from Solica Consulting, LLC. In that case, with Preferences set to read the DetailsPlus initialization file (see “Preferences”, page 37) MasterMine automatically sets up fields with appropriate types and labels.

Appendix B: Sample Session

Here is a sample of creating and formatting a MasterMine report. This example uses the “Sales Pending” report to give you valuable tips and tricks for use with all MasterMine templates.

Follow along by duplicating these steps using your own database. This will result in a report that looks similar but not identical to the images here.

After this run-through, try following similar steps within another report. This will give you a good feel for the many possibilities of reporting using these simple MasterMine techniques.

Create the “Sales Pipeline” report

1. On the GoldMine “View” or “GoTo” menu, select “Create MasterMine Report...”
2. Click “Pending” to specify future activities.
3. In the list box to the right, click “Sale” to specify only sales records.
4. Give your report a unique name, like “Sales Pipeline”.
5. Leave “Save to:” as is for now. You only need to change this if you wish to save reports to somewhere other than the default location. If you change this setting, your report will not appear in the “Open MasterMine Report...” dialog.
6. Hit the “Create” button to generate the report. A progress bar will keep you posted on the development of the report.
7. MasterMine informs you when your report is done. Click “OK” to finish.

View Data in Default Layout

8. Note that the default table shows projected and “probable” sales (multiplying the probability times the number and amount of sales) by month for all data in the file.
9. Depending on your monitor settings, you may wish to get a better view of your worksheet by changing the “zoom” on your Excel toolbar from 100% to 75%. MasterMine and Excel are best suited to a screen set for higher resolution (at least 1024 x 768 pixels).
10. If all data are not visible on the page, or some cells contain “#####” instead of numbers, try hitting the Optimize Columns button on the MasterMine ribbon to bring them into view.

- If all data are still not visible, you may want to freeze the column and row heads while scrolling to other parts of the report. To toggle this feature on or off, click the Freeze/Unfreeze Panes button on the MasterMine ribbon.

OnYear	OnMonth	CARecords	Potential Units	Potential Sales Vol	Probability	Probable Units	Probable Sales Vol
1999	Mar	1	1.00	1,190.00	0.10	0.10	119.00
	Apr	2	1.00	0.00	0.35	0.25	0.00
	May	59	66.00	77,520.00	8.35	9.05	77,520.00
	Jun	33	32.00	46,729.08	5.65	5.55	46,729.08
	Jul	51	49.00	90,125.00	6.05	5.85	90,125.00
	Aug	13	12.00	7,945.00	1.95	1.85	7,945.00
	Sep	14	18.00	24,210.00	2.40	2.80	24,210.00
	Oct	7	10.00	10,340.00	1.50	3.00	10,340.00
	Nov	2	2.00	0.00	0.20	0.20	0.00
	Dec	3	31.00	12,090.00	0.60	7.60	12,090.00
2000	Jan	2	2.00	3,680.00	0.20	0.20	3,680.00
	Feb	3	3.00	2,590.00	0.35	0.35	2,590.00
	Mar	2	2.00	5,180.00	0.20	0.20	5,180.00
	May	1	1.00	0.00	0.00	0.00	0.00
Grand Total		193	230.00	281,599.08	27.90	37.00	281,599.08

What the Report Says:

- The report currently shows pending sales broken out by year and month in the following columns:

- CARecords – the count of pending sale records (in the Calendar or “CA” table)
- Potential Units – a sum of all units for pending sales
- Potential Sales Vol – a sum of all projected dollar values of sales pending
- Probability – CARecords adjusted for probability per sales records (a sale with 70% probability is counted as .7 of a sale and summed accordingly)
- Probable Units – Sum of units adjusted for probability. A 3-unit sale with 70% probability counts here as 2.1 units.

- Probable Sales Vol – Sum of dollar values adjusted for probability. A \$500 sale with 70% probability counts here as \$350.
13. The fields in column A, stacked above the table itself, are “Page” fields, available for dragging into the table itself, or (by selecting elements in their list boxes) for setting parameters for the report. Blue fields are Contact fields (from the Contact1 table in GoldMine); green fields are Calendar fields (from the Cal table in GoldMine).
 14. Because the parameter “Linked to Contact” is set to “Yes”, our report includes only pending sales that are linked to a contact in the current GoldMine contact set.

Manipulate Table Layout

15. To view the data for a single user, click the down arrow (list box) to the right of “USERID” and select that user.
16. You can do this for any of the criteria shown on the screen, or any combination of them. (Try this: Show the potential and probable sales for prospects from one source, like “Trade Shows”, for a given product and a particular salesperson.)
17. If you keep additional prospect group information in indexed key fields on the main GoldMine screen, the same information will appear here and be used to select criteria for your table.
18. Now change all page fields except “Linked to Contact” back to “(All),” in order to include all data.
19. Note that MasterMine automatically groups the OnDate field into years, months and weeks (the buttons “OnYear”, “OnMonth” and “OnWeek”). These buttons can be treated like any other field button by dragging and dropping them into the Row, Column or Page areas.

Drag the field buttons OnMonth and OnYear up to the Page Area, drop them and replace them with USERID by dragging the button down to the Row Area. Watch the mouse icon to be sure you drop these buttons into the intended areas.

Now you see all potential sales, broken out by user.

20. By the OnYear button, select “2000” to see only sales projected for the year 2000, broken out by user (presumably sales representative).
21. If you use the reference field to indicate products, drag that field down to the row area and drop it next to the USERID field button. Before you drop it, watch the mouse icon carefully to ensure that it is in the row area, and see how the shaded border between cells indicates which rank in the row area will receive the field.

If you dropped to the left of USERID, the table will show sales counts by product by user. If you dropped to the right of the USERID, the table will show sales counts by user by product. These are very different types of information, both potentially very useful and easy to create from the other.

Create New Data Groupings

22. Now return Reference to the Page Area, leaving USERID as the only Row field.
23. Most companies group their sales people by function, by territory or by product category. If your users fall into such groups, you can group them accordingly, and use these groupings as items in yet another field button.

First, arrange the users in order by selecting and dragging them into the order you desire within the row area.

Then, drag-select the top group of users. When they are highlighted, click “Group selected items” on the MMTools ribbon. This creates a new field button named “USERID2,” which includes an item called “Group 1” instead of the users selected in USERID. Click on “Group 1” once and type a name for the group that reflects the group’s function. Similarly, select and group the other users in the list. Note that there are subtotals for each of the groups created.

Now you can treat the new “grouped” field button the same as any other field in the Pivot Table. Click on the USERID2 button and type a new name, such as “Sales Groups”.

Drag the USERID field up to the page area to see your sales broken out by sales group. Switch the USERID and Sales Groups fields, then select a single group in Sales Groups to limit your table to one group or another.

Save Useful Report to New Sheet

24. Suppose you wish to use your sales forecast by sales group on an ongoing basis, and you don’t want to re-create it from scratch every time. Save this worksheet under a separate name, so that you can continue to tweak the original sheet while preserving your work on this form.

Simply click Clone Worksheet on the MasterMine ribbon to create a duplicate sheet. Right-click the tab at the bottom of the new sheet and select “rename”. When the name (“Original (2)”) is highlighted, type a new name for the tab, such as “Group Sales Forecast”.

Then return to the Original tab to continue developing variations.

Save Variations at the Workbook Level

25. You may want to save various versions as separate workbooks, especially if different users will be using these reports. If so, use the normal “Save As” function of Excel to save the report in various formats. These can easily be shared with other licensed MasterMine users simply by sending them around as e-mail attachments or by “deploying” them as explained below.

Deploy Reports to Other Users

26. You will probably create several different versions of this report for various users in your organization. Although based on the same information, the report needed by an individual sales rep is different from that needed by the sales manager, and still different from what top executive management needs. As you've seen, making variations on a single report is very easy by repeatedly cloning and reorganizing. So SHARE appropriate versions of the reports as you make them.

Simply click "Share Report" on the MasterMine ribbon in Excel. Then enter the user and name of the GoldMine taskbar to deploy to. Several security and convenience options are included. See Report Deployment ribbon button on page 101.

End Session and Return

27. Save your changes when you exit Excel. When you want to return, just select "Open MasterMine Report..." on the GoldMine "View" menu. If you return on a later day, be sure to "Refresh" the data so that your report is always current.

You do not need to keep track of where you put your report workbooks, as long as you use the default "save to" location. The Excel worksheet we have been using was automatically saved under the name "Sales Pending.xls" in the path directly beneath the target GoldMine contact set, unless you specified another location before creating it. For example, if we have been looking at data stored in Z:\Program Files\Goldmine\Common, this workbook is at "Z:\Program Files\Goldmine\Common\MasterMine\Sales Pending.xls".

Appendix C: Pre-formatted Reports: “Toolkits” and “Templates”

MasterMine’s pre-formatted report templates are grouped into job function- or content-related “Toolkits” to make them easier to find. These Toolkits and the templates they contain are accessed by clicking “use template” on the upper right of the main create report dialog. They can also be found listed by toolkit from the “Templates” menu.

The following pages document the contents of these toolkits, which contain the bulk of templates available in MasterMine:

1. GoldMine Administrator
2. Activity Analysis
3. Sales Manager Toolkit
4. Opportunities Linked to Contacts
5. Projects Linked to Contacts
6. Combined Pending & History
7. Workbooks by GM Table Name
8. QuoteWerks

To aid in report selection, the following tables list the templates available in each toolkit.

Note on Custom Fields: Contact2 fields, which are custom user-defined fields, ARE available for any workbook that shows “Contact2” in the GM Tables column. Checking any C2 field on the Fields Used tab will add the Contact2 table to the query and change the join type to “inner” if it was not already.

MasterMine “Aliases” for Database Tables

In MasterMine documentation, as well as in MasterMine SQL queries, MasterMine uses a 2-letter alias for each GoldMine table. In the following template descriptions, the “GM Tables” are referred to with these codes or “aliases”:

<u>Most Common Tables:</u>		<u>“Special use” tables</u>	
Alias	Table Name	Alias	Table Name For:
C1	Contact1	RF	Contact1 Referrals
C2	Contact2	GS	GSSites GoldSynch Sites
CH	ContHist	GH	GSSites GoldSynch Headers
CA	Cal	AH	InfoMine Knowledgebase
CS	ContSupp	AL	ContSupp Alarms
OM	OpMgr	LD	ContSupp Linked Documents
		UL	UserLog UserLog
		SL	SysLog System Log
		EM	ContSupp E-mail Addresses
		LK	Lookup Lookups
		CG	ContGrps Group Headers
		G2	ContGrps Group Members
		RI	Resltems Company Resources

GoldMine Database Administrator's Toolkit (DBMToolkit.xls)

Every GoldMine administrator needs tools to clean up the GoldMine database, to find errors in data entry, to streamline business processes and to clear up training issues. In addition to the main reports of the Starter Toolkit, he/she should use these tools, which are designed to help the GM administrator find data exceptions and monitor e-mail address accuracy, to fax (via automated systems like FaxRush), to synchronize via GoldSynch, etc.

Suggestions about other administrative tools you'd like to see are welcome at support@mastermine.net.

Workbook Name	Description	GM Tables
E-Mail	Summary of records with and without e-mail address. Optimized for large databases, but does not include C2 (user-defined fields).	C1EM
E-Mail with C2	E-mail addresses linked to contacts and contact2 (user-defined) fields. Does NOT include records that have no e-mail address.	C1EMC2
E-Mail with Contact2	E-mail addresses linked to contacts and contact2 (user-defined) fields. INCLUDES records that have no e-mail address. May be slow on large databases.	C1EMC2
WebSites	Summary of records with and without website.	C1CS
Linked Documents	Linked Documents, plus Contact info	LDC1C2
User Log Report	Hours logged in GoldMine	UL
Contacts - Inner Joined	Open query on all Contact records. Analysis based on territory, region, other key fields and user-defined (Contact2) fields.	C1C2
Missing C2	Detects Contact1 records with missing Contact2.	C1C2
Faxes Pending	Pending, unlinked and unsent faxes. FX or FAX in UserID (FaxRush standard).	CA
Faxes Sent	Analysis of completed faxes, both individual and mass faxes. Result code is FAX (FaxRush standard).	CH
Contacts - and linked Details	All Contact records and their associated Details. Includes contacts with NO Details (profiles).	C1CS
All Accounts - and linked pending	All Contact records and any pending activities associated with them. Includes contacts with NO pending activity.	C1CA
No Pending Activity	Contacts with no pending activities (nothing scheduled).	C1XXC2
All Accounts - and linked history	All Contact records and history associated with them. Includes contacts with NO history.	C1CH

Workbook Name	Description	GM Tables
No History Activity	Contacts with no history (no completed activity).	C1XX
Sync Log	Full log of synchronizations	SL
Last Sync History	Report of most recent sync activity for each sync site	GSGH
Sync	Report of sync activity by site	GS
Alerts	GoldMine Alerts assigned to contacts in "record properties"	AHALC1C2
Alerts by Date	GoldMine Alerts sorted by date last modified	AHALC1C2
Lookups	All Lookup values. Includes Zip code lookups.	LK
Lookups - excluding Zip codes	All Lookup values except Zip codes. Faster to load and refresh than "Lookups" report.	LK
Group Members	All group members -- shows all memberships by company, or all companies with membership.	C1CGG2C2
Resource Usage	Company Resources scheduled for usage, typically in pending appointments.	RICA

Activity Analysis Toolkit (MMActivities.xls)

“Activity Analysis” templates are account-centric reports that focus primarily on Most Recent Activity and Next Pending Activity. These views into your database can be used for many purposes, but we recommend using them at least to find neglected customers and opportunities, missed assignments and well- or poorly-covered territories.

Workbook Name	Description	GM Tables
Last Completed Activity - Any type	For all contacts, shows only most recent completed activity or none if there is none.	C1CH
Last Completed Activity - Excluding E-mail	For all contacts, shows only most recent non-e-mail activity or none if there is none.	C1CH
Last Closed Sale	For all contacts, shows only most recent successful closed sale. Contact information is included for ALL contacts, including those with NO sales.	C1CH
Last Completed Sale - Closed OR Lost	For all contacts, shows most recent completed sale, whether closed or lost. Contact information is included for ALL contacts, including those with NO sales.	C1CH
Last Completed Call	Most recent call for each contact, or none if there is none. Contact information is included for ALL contacts, including those with NO calls.	C1CH
Last Completed Appointment	Most recent appointment for each contact, or none if there is none. Contact information is included for ALL contacts, including those with NO appointments.	C1CH
Last Completed Appointment or Call	For all contacts, shows only most recent completed call or appointment, or none if there is none.	C1CH
Pending Activity for All Contacts	For all contacts, shows all Pending activity for each account or (Blank) if none.	C1CA
Pending Activity except E-Mail for All Contacts	For all contacts, shows all Pending activity except e-mails for each account or (Blank) if none	C1CA
Next Pending Activity only - All Contacts	Next Pending activity for each contact record or *None if none exists.	C1CA
Alarm Calendar	Alarms for all pending items, organized into a calendar format.	CAC1
Alarms by User	All pending items, organized by UserID. Report defaults to show only those with alarm.	CAC1

“Sales Manager” Toolkit (SMToolkit.xls):

Sales Managers need to monitor every aspect of their sales force’s efforts, to report to THEIR managers in order to train, coach, identify opportunities and successful techniques, and share them to motivate and discipline the sales team. These workbooks and the ones available in the more advanced “Sales Tracking Toolkit” give Sales Managers the ability to easily get the necessary information to do their jobs successfully.

Workbook Name	Description	GM Tables
Sales Forecast by User	Analysis of pending sales, including probability, schedule, \$ summaries and linked to basic client info such as source, key fields, etc.	CAC1C2
Sales Forecast by Product	Analysis of pending sales, including probability, schedule, \$ summaries and linked to basic client info such as source, key fields, etc.	CAC1C2
Sales History by User	Analysis of completed sales by user.	CHC1C2
Sales History - Current User ONLY	Analysis of completed sales by user.	CHC1C2
Top Customers	Top Customers by overall Amount sold, descending from the top. Rearrange to see by year, month, sales rep, etc.	CHC1C2
Past Due Pending Activity	Pending activities dated before today, by user, type of activity and standard contact information.	CAC1C2
History Log Analysis	Analysis of sales progress reflected in record of updates to key fields.	CHC1C2
Weekly Activities by User	Analysis of completed activities by user in selected week.	CHC1C2
New Prospects	Analysis of records newly added to the database (within the past 365 days).	C1C2
Most Recent Contact	All prospects by how recently contacted, linked with full contact info. "Last Contact" is most recent call, appointment, or e-mail successfully completed (See GM Help for "Last Contact On" definition. Use reports in "Activity Analysis" toolkit for finer distinctions of what constitutes "contact".)	C1C2
Last Contact Over 90 Days	Prospects not contacted in the past 90 days. e.g. no successful call, appointment or e-mail (See GM help for "Last Contact On" definition. Use reports in "Activity Analysis" toolkit for finer distinctions of what constitutes "contact".)	C1C2

Workbook Name	Description	GM Tables
Most Recent Attempt	Analysis of all prospects by how recently an attempt was made to contact, including GM phone dial. (See definition of "Last Attempt" in GM help.)	C1C2
Referrals	Analysis of client referrals, by quantity and quality.	CSC1RFCFC2
Referral Sales Pending	Analysis of pending sales linked to the original referring client, including probability, schedule, \$ summaries.	CSC1CARF
Referral Sales Completed	Analysis of closed sales linked to the original referring client.	CSC1CHRF
Pending Sales by Original Entry Date	Analysis of pending sales by client creation date, including probability, schedule, \$ summaries and linked to basic client info like source, key fields, etc.	CAC1C2
New Client Sales Pending	Analysis of pending sales from clients added in the last 120 days, including probability, schedule, \$ summaries and linked to basic client info such as source, key fields, etc.	CAC1C2
Sales Cycle by Date Forecast	Analysis of sales cycle, which is number of days between the date the sale was forecast (CH.CreateOn date) and date sale occurred (CH.OnDate). Shows count of sales, \$ summaries, etc.	CHC1C2
Sales Cycle from Date Lead Entered	Analysis of sales cycle, which is number of days between sale date and the date account record was created (CreateOn for the account). Shows count of sales, \$ summaries, etc.	CHC1C2

Opportunities Toolkit (MMOpportunities.xls and MMOpportunitiesUnlinked.xls):

GoldMine's Opportunities may be used in different ways, depending on the conventions set up within your business. Most companies link each opportunity to a contact record, so by default, MasterMine assumes this is the case. However, some organizations use Opportunities in such a way that the contact under which the opportunity is linked is irrelevant. Enable the appropriate one in your preferences (see Chapter 4, "Preferences", page 37).

The opportunity manager table (OpMgr) contains a series of sub-tables (see GoldMine Data Structure documentation). In MasterMine, these sub-tables have the following aliases, as seen under "GM Tables" below. In most cases, the alias corresponds with the OpMgr "RecType" or record type used to identify them in GoldMine.

Alias	Table	For Tab
C1	Contact1	Main Contacts
C2	Contact2	Custom Fields
CH	ContHist	History
CA	Cal	Pending
CS	ContSupp	Supp. Contacts
OM	OpMgr	Opportunities
OK	OpMgr	Tasks
OD	OpMgrFld	Details
OC	OpMgr	Influencers
OT	OpMgr	Team
OP	OpMgr	Competitor
OI	OpMgr	Issues

Workbook Name	Description	GM Tables
Opportunities	Contacts relating to Opportunities	OMC1C2
Opportunity Tasks	Tasks relating to Opportunities. OM=OpMgr fields OK=Task fields	OMOKC1C2
Opportunity Details	Details and Linked Documents relating to Opps	OMODC1C2
Opportunity Influencers	Influencers relating to Opps	OMOCC1C2
Opportunity Teams	Team Members relating to Opps	OMOTC1C2
Opportunity Team with Team Contact Info	Team Members and Opportunities they link to. For team members that are GM Contacts, Contact info of Team member is included.	OMOTC1C2
Opportunity Competitors	Competitors relating to Opps	OMOPC1C2
Opportunity Issues	Issues for Opportunities and Opps	OMOIC1C2
Opportunity Forecast	Forecast sales using only info in Opportunity record, not the attached Sale records on Pending tab	OMC1C2
Opportunity Pending Sales Forecast	Pending Sale records associated with Opportunities	OMCAC1C2
Opportunity Sales Completed	Completed Sales.associated with Opportunities	OMCHC1C2

Workbook Name	Description	GM Tables
Opportunity Pending Activities	All Opportunities and linked Pending Activities	DMCAC1C2
Opportunity Completed Activities	All Opportunities and linked Completed Activities	DMCHC1C2
Opportunity Influencers Pending Activities	Influencers and all associated pending activities	DMOCCA
Opportunity Influencers History Activities	Influencers and all associated completed activities	DMOCCH

Projects Toolkit (MMProjects.xls and MMProjectsUnlinked.xls):

As with Opportunities, GoldMine’s Projects may be used in different ways, depending on the conventions set up within your business. Most companies link each project to a contact record, so by default, MasterMine assumes this is the case. However, some organizations use projects in such a way that the contact under which the project is linked is irrelevant. Enable the appropriate one in your preferences (see Chapter 3, “Preferences”, page **Error! Bookmark not defined.**).

The opportunity manager table (OpMgr) contains Projects as well, and these are defined by a series of sub-tables (see GoldMine Data Structure documentation). In MasterMine, these sub-tables have the following aliases, as seen under “GM Tables” below. In most cases, the alias corresponds with the OpMgr “RecType” or record type used to identify them in GoldMine.

Alias	Table	For Tab
C1	Contact1	Main Contacts
C2	Contact2	Custom Fields
CH	ContHist	History
CA	Cal	Pending
CS	ContSupp	Supp. Contacts
PJ	OpMgr	Projects
PK	OpMgr	Tasks
PF	OpMgrFld	Details
PC	OpMgr	Contacts
PT	OpMgr	Team
PI	OpMgr	Issues
PC	OpMgr	Influencers

Workbook Name	Description	GM Tables
All Projects	Contacts relating to Projects	PJC1C2
Project Tasks	Tasks relating to Projects	PJPKC1C2
Project Details	Details relating to Projects	PJRFC1C2
Project Contacts	Contacts relating to Projects	PJPCC1C2
Project Teams	Team Members relating to Projects. Shows team member information from the Project record only, not original GM contact.	PJPTC1C2
Project Team with Member Contact Info	Team Members who are GoldMine Contacts (not USERS or manually entered). GM Contact info for Team member includes full GM contact record.	PTPJC1C2
Project Issues	Issues tab for Projects	PJPIC1C2
Project Sales Forecast	Pending Sale records linked to projects	PJCAC1C2
Project Sales Completed	Completed Sales linked to Projects	PJCHC1C2
Project Pending Activities	Pending Activities linked to projects	PJCAC1C2
Project Completed Activities	Completed Activities linked to Projects.	PJCHC1C2

Workbooks by GoldMine Table Name (MMStandard.xls)

This toolkit is designed for use by those familiar with GoldMine table structures, to quickly set up custom reports based upon various table combinations. Reports work the same as with other toolkits, but are named by the GoldMine tables they contain. See “Adding or Adjusting Joins” in Chapter 7 for an explanation of Joins.

Workbook Name	Description	GM Tables
Contacts Only	Contacts only. Include Contact2 fields in 'Fields Used' if desired.	C1C2
Contact1 & Contact2 - Inner Joined	Contact1 & 2 tables, inner joined. Contacts with C2 record missing do NOT appear at all.	C1C2
Forecast Sales & Contact & Details (Profiles)	Forecast sales linked to contacts and any profile record. Counts one of EACH for every occurrence of a match, so filtering must be done on the page!	CACSC1C2
Completed Sales & Contact & Details (Profiles)	Completed sales linked to contacts and any profile record. Counts one of EACH for every occurrence of a match, so filtering must be done on the page!	CHCSC1C2
Pending Activities & Contact & Details (Profiles)	Pending activities linked to contacts and any profile record. Counts one of EACH for every occurrence of a match, so filtering must be done on the page!	CACSC1C2
Completed Activities & Contact & Details (Profiles)	Completed activities linked to contacts and any profile record. Counts one of EACH for every occurrence of a match, so filtering must be done on the page!	CHCSC1C2
Supplementary Contacts	Additional Contact records, linked to main contact info.	CSC1C2
ContSupp Only	Supplementary info, including user-defined profiles, referrals, document links, and other specialized GoldMine info.	CS
ContSupp & Contact	Supplementary records (profiles, referrals, doc links, etc.) linked to primary contact info, including user defined fields.	CSC1C2
ContHist Only	All records of completed activities.	CH
History Log Analysis	Analysis of ContHist log records generated if GoldMine's 'History Log' feature is turned on. Will result in 'No Records' message and aborts if feature is turned off.	CHC1C2

QuoteWerks Toolkit (MMQuoteWerks.xls):

MasterMine for GoldMine includes a “QuoteWerks” toolkit that integrates GoldMine data with QuoteWerks data into seamless reports. Integration with QuoteWerks is described elsewhere in this manual. Here are details on the reports and tables available from QuoteWerks for reporting.

Alias	Table
C1	Contact1
C2	Contact2
CH	ContHist
CA	Cal
CS	ContSupp
OM	OpMgr
CX	Contact1
QH	DocumentHeaders
QI	DocumentItems

Workbook Name	Description	GM Tables
Quotes	All Quotes in QuoteWerks, regardless of links to GoldMine accounts.	QH
Quotes - GoldMine linked	Quotes linked to GoldMine Accounts	C1C2QH
Quotes by Item	Quotes at the Item level of detail. Only Quotes not marked "lost" are included.	QIQH
Quotes by Item - GoldMine linked	Quotes linked to GoldMine Accounts. Only Quotes not marked "lost" are included.	C1C2QIQH
Orders	All Orders.	QH
Orders - GoldMine linked	All Orders linked to specific GoldMine account records. Includes access to GoldMine account fields.	C1C2QH
Orders by Item	Orders at Item level of detail. No GoldMine detail included	QIQH
Orders by Item - GoldMine linked	Orders at Item level of detail. GoldMine contact detail included.	C1C2QIQH
Invoices	All Invoices.	QH
Invoices - GoldMine linked	All Invoices linked to specific GoldMine account records. Includes access to GoldMine account fields.	C1C2QH
Invoices by Item	Invoices at Item level of detail. No GoldMine detail included	QIQH
Invoices by Item - GoldMine linked	Invoices at Item level of detail. GoldMine contact detail included.	C1C2QIQH
Forecast	Forecast by part.	QIQH
Forecast - GoldMine linked	All documents linked to GoldMine Accounts. Summarized at individual item level.	C1C2QIQH
QW with GoldMine Forecast	Forecast based on GoldMine forecast sales, linked to QuoteWerks documents.	C1C2CAQH

Appendix D: Common Fields and Expressions

The following tables summarize the logic behind report field contents, including the SQL expression used to extract them. The “source” column indicates source files in GoldMine, aliased as follows:

Most common tables:

Alias	Table Name
C1	Contact1
C2	Contact2
CH	ContHist
CA	Cal
CS	ContSupp
OM	OpMgr

“Special use” tables:

Alias	Table Name	For:
RF	Contact1	Referrals
GS	GSSites	GoldSynch Sites
GH	GSSites	GoldSynch Headers
AH	InfoMine	Knowledgebase
AL	ContSupp	Alarms
LD	ContSupp	Linked Documents
UL	UserLog	UserLog
SL	SysLog	System Log
EM	ContSupp	E-mail Addresses
LK	Lookup	Lookups
CG	ContGrps	Group Headers
G2	ContGrps	Group Members
RI	ResItems	Company Resources

Source	MM Field Name	SQLExpression	dBase Expression
C1	Contact	Rtrim(C1.CONTACT)	C1.CONTACT
C1	Company	Rtrim(C1.COMPANY)	C1.COMPANY
C1	Linked To Contact	isnumeric(substring(C1.ACCOUNTNO,2,1))	(C1.ACCOUNTNO Is Not Null)
C1	Last Name	Rtrim(C1.LASTNAME)	C1.LASTNAME
C1	Department	Rtrim(C1.DEPARTMENT)	C1.DEPARTMENT
C1	Title	Rtrim(C1.TITLE)	C1.TITLE
C1	Secr	Rtrim(C1.SECR)	C1.SECR
C1	PrimaryEmail	udfDBO\$.udfMMPPrimaryEmail(C1.ACCOUNTNO)	
C1	PrimaryEmail Merge	udfDBO\$.udfMMPEmailMergecodes(C1.ACCOUNTNO)	
C1	Phone	Rtrim(C1.PHONE1)	C1.PHONE1
C1	Phone2	Rtrim(C1.PHONE2)	C1.PHONE2
C1	Phone3	Rtrim(C1.PHONE3)	C1.PHONE3
C1	Fax	Rtrim(C1.FAX)	C1.FAX
C1	Ext1	Rtrim(C1.EXT1)	C1.EXT1
C1	Ext2	Rtrim(C1.EXT2)	C1.EXT2
C1	Ext3	Rtrim(C1.EXT3)	C1.EXT3
C1	Ext4	Rtrim(C1.EXT4)	C1.EXT4
C1	Address	Rtrim(C1.ADDRESS1)	C1.ADDRESS1
C1	Address2	Rtrim(C1.ADDRESS2)	C1.ADDRESS2
C1	Address3	Rtrim(C1.ADDRESS3)	C1.ADDRESS3
C1	City	Rtrim(C1.CITY)	C1.CITY
C1	State	Rtrim(C1.STATE)	C1.STATE
C1	Zip	Rtrim(C1.ZIP)	C1.ZIP
C1	Zip5	substring(C1.ZIP,1,5)	left(C1.ZIP,5)

Source	MM Field Name	SQLExpression	dBase Expression
C1	Postal Zone	substring(C1.ZIP,1,3)	left(C1.ZIP,3)
C1	Country	Rtrim(C1.COUNTRY)	C1.COUNTRY
C1	Dear	Rtrim(C1.DEAR)	C1.DEAR
C1	Source	Rtrim(C1.SOURCE)	C1.SOURCE
C1	KEY1	Rtrim(C1.KEY1)	C1.KEY1
C1	KEY2	Rtrim(C1.KEY2)	C1.KEY2
C1	KEY3	Rtrim(C1.KEY3)	C1.KEY3
C1	KEY4	Rtrim(C1.KEY4)	C1.KEY4
C1	KEY5	Rtrim(C1.KEY5)	C1.KEY5
C1	C1Notes	udfDBO\$.udfMMStripHTML(C1.NOTES)	C1.NOTES
C1	C1Notes2	substring(udfDBO\$.udfMMStripHTML(C1.NOTES),254,253)	mid(C1.NOTES,254)
C1	C1Notes3	substring(udfDBO\$.udfMMStripHTML(C1.NOTES),507,253)	mid(C1.NOTES,507)
C1	C1Notes4	substring(udfDBO\$.udfMMStripHTML(C1.NOTES),760,253)	mid(C1.NOTES,760)
C1	C1Notes5	substring(udfDBO\$.udfMMStripHTML(C1.NOTES),1013,253)	mid(C1.NOTES,1013)
C1	MergeCodes	Rtrim(C1.MEREGECODES)	C1.MEREGECODES
C1	CreateBy	Rtrim(C1.CREATEBY)	C1.CREATEBY
C1	CreateOn	Coalesce(C1.CREATEON, 'NullDate\$')	iif(C1.CREATEON Is Null,#NullDate\$,C1.CREATEON)
C1	CreateOn	Coalesce(convert(datetime,nullif(substring(char(ascii(c1.accountno)+17*(isdate(substring(c1.accountno,1,6))-1))+substring(c1.accountno,2,5),1,isdate('2'+substring(c1.accountno,2,5))*6,'')), 'NullDate\$')	iif(c1.accountno is null, #NullDate\$,datevalue(format(iif(left(c1.accountno,1)='A','200'+mid(c1.accountno,2,5),left(c1.accountno,6)), '##/##/##')))
C1	Owner	Rtrim(C1.OWNER)	C1.OWNER
C1	Acct Last User	Rtrim(C1.LASTUSER)	C1.LASTUSER
C1	Acct Last Modified	Coalesce(C1.LASTDATE, 'NullDate\$')	iif(C1.LASTDATE Is Null,#NullDate\$,C1.LASTDATE)
C1	C1AccountNo	C1.ACCOUNTNO	C1.ACCOUNTNO
C2	Linked To Contact2	isnumeric(substring(C2.ACCOUNTNO,2,1))	(C2.ACCOUNTNO Is Not Null)
C2	USERDEF01	C2.USERDEF01	C2.USERDEF01
C2	USERDEF02	C2.USERDEF02	C2.USERDEF02
C2	USERDEF03	C2.USERDEF03	C2.USERDEF03
C2	USERDEF04	C2.USERDEF04	C2.USERDEF04
C2	USERDEF05	C2.USERDEF05	C2.USERDEF05
C2	USERDEF06	C2.USERDEF06	C2.USERDEF06
C2	USERDEF07	C2.USERDEF07	C2.USERDEF07
C2	USERDEF08	C2.USERDEF08	C2.USERDEF08
C2	USERDEF09	C2.USERDEF09	C2.USERDEF09
C2	USERDEF10	C2.USERDEF10	C2.USERDEF10
C2	Call Back On	Coalesce(C2.CALLBACKON, 'NullDate\$')	iif(C2.CALLBACKON is null, #NullDate\$, C2.CallBackOn)
C2	Call Back Freq	C2.CALLBKRFREQ	C2.CALLBKRFREQ
C2	LastContactOn	Coalesce(C2.LASTCONTON, 'NullDate\$')	iif(C2.LASTCONTON is null,#NullDate\$, C2.LASTCONTOn)
C2	Last Attempt On	Coalesce(C2.LASTATMPON, 'NullDate\$')	iif(C2.LASTATMPON is null, #NullDate\$, C2.LASTATMPOn)
C2	Meeting On	Coalesce(C2.MEETDATEON, 'NullDate\$')	iif(C2.MEETDATEON is null, #NullDate\$, C2.MEETDATEOn)

Source	MM Field Name	SQLExpression	dBase Expression
C2	Comments	C2.COMMENTS	C2.COMMENTS
C2	Previous Result	C2.PREVRRESULT	C2.PREVRRESULT
C2	Next Action	C2.NEXTACTION	C2.NEXTACTION
C2	Action On	Coalesce(C2.ActionON,'NullDate\$')	iif(C2.ActionON is null,#NullDate\$#,C2.ActionOn)
C2	Close On	Coalesce(C2.CLOSEDATE,'NullDate\$')	iif(C2.CLOSEDATE is null, #NullDate\$#,C2.CLOSEDATE)
C2	Contact2 contains your user-defined fields.		
	Fields are automatically formatted depending on their field type:		
C2	CharacterField	RTrim(CharacterField)	C2.CharacterField
C2	NumericField	Coalesce(C2.NumericField, 0)	iif(C2.NumericField is null, 0, C2.NumericField)
C2	DateField	Coalesce(C2.DateField, '1/1/1989')	iif(C2.DateField is null, '1/1/1989', C2.DateField)
CA	Activity Type	CA.RECTYPE	CA.RECTYPE
CA	Activity Company	Rtrim(CA.COMPANY)	CA.COMPANY
CA	Activity Contact	Rtrim(CA.COMPANY)	CA.COMPANY
CA	OnDate	Coalesce(CA.OnDate,'NullDate\$')	iif(CA.ONDATE Is Null,#NullDate\$#,CA.ONDATE)
CA	OnDay	substring(datetime(weekday,Coalesce(CA.OnDate,'NullDate\$')),1,3)	WeekDay(CA.OnDate)
CA	OnTime	CA.OnTime	CA.OnTime
CA	OnHour	substring(CA.OnTime,1,2)	left(CA.OnTime,2)
CA	DaysTill	Datediff(day,getdate(),CA.OnDate)	iif(CA.OnDate is null, #NullDate\$#,CA.OnDate) - date()
CA	User ID	Rtrim(CA.USERID)	CA.USERID
CA	Activity Code	Rtrim(CA.ACTVCODE)	CA.ACTVCODE
CA	Short Reference	substring(rtrim(CA.Ref), 1, ShortRefLen\$)	left(CA.Ref, ShortRefLen\$)
CA	Product	Rtrim(CA.REF)	CA.REF
CA	Reference	Rtrim(CA.REF)	CA.REF
CA	OnWeek	Coalesce(CA.OnDate,'NullDate\$')	iif(CA.ONDATE Is Null,#NullDate\$#,CA.ONDATE)
CA	Probability	Convert(float,Coalesce(CA.Duration,0))/100	iif(CA.duration is null, 0, iif(CA.RECTYPE<>'S',0,CA.duration/100))
CA	Duration	Coalesce(CA.Duration,0)	iif(CA.duration Is Null,0,CA.DURATION)
CA	Meeting Confirm	CA.ACONFIRM	CA.ACONFIRM
CA	Appointment User	Rtrim(CA.APPTUSER)	CA.APPTUSER
CA	HasNotes	Coalesce(substring(CA.STATUS,2,1),0)	iif(CA.status Is Null,'',mid(CA.STATUS+' ',2))
CA	CANotes	udfDBO\$.udfMMStripHTML(CA.NOTES)	CA.NOTES
CA	CANotes2	substring(udfDBO\$.udfMMStripHTML(CA.NOTES),254,253)	mid(CA.NOTES,254)
CA	CANotes3	substring(udfDBO\$.udfMMStripHTML(CA.NOTES),507,253)	mid(CA.NOTES,507)
CA	CANotes4	substring(udfDBO\$.udfMMStripHTML(CA.NOTES),760,253)	mid(CA.NOTES,760)
CA	CANotes5	substring(udfDBO\$.udfMMStripHTML(CA.NOTES),1013,253)	mid(CA.NOTES,1013)
CA	Potential Amount	Coalesce(CA.NUMBER1,0)	iif(CA.NUMBER1 Is Null,0,CA.NUMBER1)

Source	MM Field Name	SQLExpression	dBase Expression
CA	Potential Units	Coalesce(CA.NUMBER2,0)	iif(CA.NUMBER2 Is Null,0,CA.NUMBER2)
CA	Probable Amount	Coalesce(CA.NUMBER1,0)*Coalesce(CA.Duration,0)/100	iif(CA.NUMBER1 Is Null,0,CA.NUMBER1)* iif(CA.duration is null, 0, CA.duration/100)
CA	Probable Units	Coalesce(CA.NUMBER2,0)*Coalesce(CA.Duration,0)/100	iif(CA.NUMBER2 Is Null,0,CA.NUMBER2)* iif(CA.duration is null, 0, CA.duration/100)
CA	DirCode	Rtrim(CA.DIRCODE)	CA.DIRCODE
CA	CreateBy	Rtrim(CA.CREATEBY)	CA.CREATEBY
CA	CreateOn	Coalesce(CA.CREATEON,'NullDate\$')	iif(CA.CREATEON Is Null,#NullDate\$,CA.CREATEON)
CA	CreateAt	CA.CREATEAT	CA.CREATEAT
CA	EndDate	Coalesce(CA.ENDDATE,'NullDate\$')	iif(CA.ENDDATE Is Null,#NullDate\$,CA.ENDDATE)
CA	Last User	Rtrim(CA.LASTUSER)	CA.LASTUSER
CA	Last Modified	Coalesce(CA.LASTDATE,'NullDate\$')	iif(CA.LASTDATE Is Null,#NullDate\$,CA.LASTDATE)
CA	LastTime	CA.LASTTIME	CA.LASTTIME
CA	AlarmDate	Coalesce(CA.ALARMDATE,'NullDate\$')	iif(CA.ALARMDATE Is Null,#NullDate\$,CA.LASTDATE)
CA	AlarmTime	Rtrim(CA.ALARMTIME)	CA.ALARMTIME
CA	AlarmFlag	Rtrim(CA.ALARMFLAG)	CA.ALARMFLAG
CA	Color	Rtrim(isnull(nullif(CA.APPTUSER,''),'Blue'))	CA.APPTUSER
CA	ContactFile	Rtrim(CA.DIRCODE)	CA.DIRCODE
CA	CAAccountNo	CA.ACCOUNTNO	CA.ACCOUNTNO
CA	CARecords	CA.RECID	CA.RECID
CA	Linked OpRecID	CA.LOPRECID	CA.LOPRECID
CH	OnDate	Coalesce(CH.OnDate,'NullDate\$')	iif(CH.OnDate is null, #NullDate\$, CH.onDate)
CH	OnDay	substring(datename(weekday,Coalesce(CH.OnDate,'NullDate\$')),1,3)	WeekDay(CH.OnDate)
CH	OnTime	CH.OnTime	CH.OnTime
CH	OnHour	substring(CH.OnTime,1,2)	left(CH.OnTime,2)
CH	User ID	Rtrim(CH.USERID)	CH.USERID
CH	DaysSince	Datediff(day,Coalesce(CH.OnDate,'NullDate\$'), getdate())	date() - iif(CH.OnDate is null, #NullDate\$, CH.OnDate)
CH	Activity Type	CH.SRECTYPE	CH.SRECTYPE
CH	Result Code	Rtrim(CH.RESULTCODE)	CH.RESULTCODE
CH	Activity Code	Rtrim(CH.ACTVCODE)	CH.ACTVCODE
CH	Short Reference	Rtrim(substring(Ltrim(Stuff(CH.REF,Charindex('oc:',CH.REF)+1,200*Charindex('oc:',CH.REF),' '),1,ShortRefLen\$)))	left(iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:)-1),CH.REF),ShortRefLen\$)
CH	Product	Rtrim(ltrim(Stuff(CH.REF,Charindex('oc:',CH.REF)+1,200*Charindex('oc:',CH.REF),' ')))	iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:)-1),CH.REF)
CH	Reference	Rtrim(Ltrim(Stuff(CH.REF,Charindex('oc:',CH.REF)+1,200*Charindex('oc:',CH.REF),' ')))	iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:)-1),CH.REF)
CH	LogUpdate	substring(Ltrim(Stuff(CH.REF,Charindex('oc:',CH.REF),' '),1,11))	left(iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:)-1),CH.REF),instr(CH.REF,')-1)

Source	MM Field Name	SQLExpression	dBase Expression
CH	LogField	substring(CH.REF, 15, Charindex(':',stuff(CH.REF,1,15,"")))	trim(mid(iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:'))-1),CH.REF),instr(CH.REF,':')+3,instr(17,CH.REF,':')-instr(CH.REF,':')-3))
CH	LogChange	Ltrim(substring(Stuff(CH.REF,Charindex(' (oc:',CH.REF)+1,200*Charindex(' (oc:',CH.REF),' '),Charindex(Char(39),CH.REF),25))	trim(mid(iif(CH.REF Like '%(oc:%',left(CH.REF,instr(CH.REF,'(oc:'))-1),CH.REF),instr(17,CH.REF,':')+2))
CH	CH Contact	Replicate(' ',sign(Charindex('oc:',CH.REF)))+Substring(CH.REF,Charindex(' (oc:',CH.REF)+5,50*Charindex(' (oc:',CH.REF))	iif(CH.REF Like '%(oc:%)%' ,'+left(trim(mid(CH.REF,instr(CH.REF,'(oc:')+4)),len(trim(mid(CH.REF,instr(CH.REF,'(oc:')+4)))-1)+'),"
CH	CH or C1Contact	isnull(nullif(rtrim(Replicate(' ',sign(Charindex('oc:',CH.REF)))+Substring(CH.REF,Charindex(' (oc:',CH.REF)+5,50*Charindex(' (oc:',CH.REF))),' '),'+rtrim(C1.Contact)+')'	(('+iif(CH.REF Like '%(oc:%)%' ,left(trim(mid(CH.REF,instr(CH.REF,'(oc:')+4)),len(trim(mid(CH.REF,instr(CH.REF,'(oc:')+4)))-1),trim(C1.Contact)+'))'
CH	Record Type Data	CH.RECTYPE	CH.RECTYPE
CH	Full Activity Type	Rtrim(substring(CH.RECTYPE,1,2))	trim(left(CH.RECTYPE+' ',2))
CH	Success	sign(Coalesce(ascii(substring(CH.RECTYPE,3,1)),1)-50)	(mid(CH.RECTYPE,3,1)<>'U')
CH	HasNotes	Coalesce(substring(CH.STATUS,2,1),0)	iif(CH.status Is Null,' ',mid(CH.STATUS+' ',2))
CH	CHNotes	udfDBO\$.udfMMStripHTML(CH.NOTES)	CH.NOTES
CH	CHNotes2	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),254,253)	mid(CH.NOTES,254)
CH	CHNotes3	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),507,253)	mid(CH.NOTES,507)
CH	CHNotes4	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),760,253)	mid(CH.NOTES,760)
CH	CHNotes5	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),1013,253)	mid(CH.NOTES,1013)
CH	CHNotes6	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),1266,253)	mid(CH.NOTES,1266)
CH	CHNotes7	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),1519,253)	mid(CH.NOTES,1519)
CH	CHNotes8	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),1772,253)	mid(CH.NOTES,1772)
CH	CHNotes9	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),2025,253)	mid(CH.NOTES,2025)
CH	CHNotes10	substring(udfDBO\$.udfMMStripHTML(CH.NOTES),2278,253)	mid(CH.NOTES,2278)
CH	Duration	Rtrim(CH.DURATION)	CH.DURATION
CH	Minutes	Coalesce(Convert(float,NullIf(IsDate(CH.DURATION),1)),Convert(float,NullIf(CharIndex('S',CH.SRECTYPE)-1,-1)),convert(float,Convert(Datetime,CH.DURATION)))*1440	iif(isdate(CH.DURATION),timevalue(CH.DURATION)*1440,0)

Source	MM Field Name	SQLExpression	dBase Expression
CH	Hours	Coalesce(Convert(float,Nullif(IsDate(CH.DURATION),1)),Convert(float,Nullif(CharIndex('S',CH.SRECTYPE)-1,-1)),convert(float,Convert(Datetime,CH.DURATION)))*24	iif(isdate(CH.DURATION),timevalue(CH.DURATION)*24,0)
CH	Amount	Coalesce(nullif(ISNUMERIC(Replace(CH.DURATION, ',', '.'))*-1,-1), nullif(charindex('S',CH.SRECTYPE)*-1,-1), Convert(Money, Replace(CH.DURATION, ',', '.')))	iif(CH.DURATION Like '___:__:__' Or srectype<>'S',0,iif(CH.DURATION Is Null,0,val(CH.DURATION)))
CH	Units	Coalesce(nullif(ISNUMERIC(CH.UNITS)*-1,-1), nullif(charindex('S',CH.SRECTYPE)*-1,-1), Convert(Real, CH.UNITS))	iif(CH.UNITS Is Null,0,val(CH.UNITS))
CH	CreatedOn	Coalesce(CH.CREATEON,'NullDate\$')	iif(CH.CREATEON Is Null,#NullDate\$,CH.CREATEON)
CH	DaysForcst2Sale	DateDiff(day,CH.CREATEON,Coalesce(CH.OnDate,'NullDate\$'))	iif(CH.Ondate is null, #NullDate\$, CH.ondate) - CH.CREATEON
CH	DaysLead2Sale	DateDiff(day,Coalesce(C1.CREATEON,'NullDate\$'),Coalesce(CH.OnDate,'NullDate\$'))	iif(CH.Ondate is null, #NullDate\$, CH.ondate) - iif(C1.CREATEON Is Null,#NullDate\$,C1.CREATEON)
CH	Last User	Rtrim(CH.LASTUSER)	CH.LASTUSER
CH	Last Modified	Coalesce(CH.LASTDATE,'NullDate\$')	iif(CH.lastdate Is Null,#NullDate\$,CH.LASTDATE)
CH	CreatedBy	Rtrim(CH.CREATEBY)	CH.CREATEBY
CH	Linked OpRecID	CH.LOPRECID	CH.LOPRECID
CH	CHRecords	CH.RECID	CH.RECID
CH	CHAccountNo	CH.ACCOUNTNO	CH.ACCOUNTNO
CH	OnWeek	Coalesce(CH.OnDate,'NullDate\$')	iif(CH.Ondate is null, #NullDate\$, CH.ondate)
CS	CSRecordType	Rtrim(CS.RECTYPE)	CS.RECTYPE
CS	Detail Type	Rtrim(CS.CONTACT)	CS.CONTACT
CS	Detail Ref	Rtrim(CS.CONTSUPREF)	CS.CONTSUPREF
CS	CSTitle	Rtrim(CS.TITLE)	CS.TITLE
CS	CSLinkAcct	Rtrim(CS.LINKACCT)	CS.LINKACCT
CS	CSCountry	Rtrim(CS.COUNTRY)	CS.COUNTRY
CS	CSZip	Rtrim(CS.ZIP)	CS.ZIP
CS	eMail Priority	Substring(CS.ZIP,2,1)	Mid(CS.ZIP,2,1)
CS	CSExtension	Rtrim(CS.EXT)	CS.EXT
CS	CSSState	Rtrim(CS.STATE)	CS.STATE
CS	CSAddress1	Rtrim(CS.ADDRESS1)	CS.ADDRESS1
CS	CSAddress2	Rtrim(CS.ADDRESS2)	CS.ADDRESS2
CS	CSAddress3	Rtrim(CS.ADDRESS3)	CS.ADDRESS3
CS	CSDear	Rtrim(CS.DEAR)	CS.DEAR
CS	CSPhone	Rtrim(CS.PHONE)	CS.PHONE
CS	CSFax	Rtrim(CS.FAX)	CS.FAX
CS	CSCreateOn	Convert(datetime,coalesce(nullif(substring(CS.CITY,9,Isdate(Substring(CS.CITY,9,8))*8),0),'NullDate\$'))	datevalue(iif(isdate(format(mid(cs.city,9,8),'###-##-##'),format(mid(CS.CITY,9,8),'###-##-##'),'NullDate\$'))
CS	CSCreateBy	Substring(CS.CITY,1,8)	left(cs.city,8)
CS	EmailMergeCodes	Rtrim(CS.MERGECODES)	CS.MERGECODES
CS	CSLastUser	Rtrim(CS.LASTUSER)	CS.LASTUSER
CS	CSCity	Rtrim(CS.CITY)	CS.CITY

Source	MM Field Name	SQLExpression	dBase Expression
CS	CSLastModified	Coalesce(CS.LastDate,'NullDate\$')	iif(CS.LASTDATE is null, #NullDate\$,CS.LastDate)
CS	CSAccountNo	CS.ACCOUNTNO	CS.ACCOUNTNO
CS	CSRecords	CS.RECID	CS.RECID
CS	CSHasNotes	CS.STATUS	CS.STATUS
CS	CSNotes	udfDBO\$.udfMMStripHTML(CS.NOTES)	CS.NOTES
CS	CSNotes2	substring(udfDBO\$.udfMMStripHTML(CS.NOTES),254,253)	mid(CS.NOTES,254)
CS	CSNotes3	substring(udfDBO\$.udfMMStripHTML(CS.NOTES),507,253)	mid(CS.NOTES,507)
CS	CSNotes4	substring(udfDBO\$.udfMMStripHTML(CS.NOTES),760,253)	mid(CS.NOTES,760)
CS	CSNotes5	substring(udfDBO\$.udfMMStripHTML(CS.NOTES),1013,253)	mid(CS.NOTES,1013)
CX	Contact	rtrim(CX.CONTACT)//rtrim(CS.CONTACT)	CX.CONTACT//CS.CONTACT
CX	Company	Rtrim(CX.COMPANY)	CX.COMPANY
CX	Main or Supp Contact	'Main'/'Supp'	'Main'/'Supp'
CX	Last Name	Rtrim(CX.LASTNAME)	CX.LASTNAME
CX	Dept/Ref	rtrim(CX.DEPARTMENT)//rtrim(CS.CONTSUPREF)	trim(CX.DEPARTMENT)//trim(CS.CONTSUPREF)
CX	Title	rtrim(CX.TITLE)//rtrim(CS.TITLE)	trim(CX.TITLE)//trim(CS.TITLE)
CX	Secr	Rtrim(CX.SECR)	CX.SECR
CX	Email Address	udfDBO\$.udfMMPrimaryEmail(CX.ACCOUNTNO)//udfDBO\$.udfMMSuppContEmail(CS.ReclD)	
CX	Email MergeCodes	udfDBO\$.udfMMPEmailMergecodes(CX.ACCOUNTNO)//udfDBO\$.udfMMSuppEmailMerge(CS.ReclD)	
CX	Phone	rtrim(CX.PHONE1)//rtrim(CS.PHONE)	CX.PHONE1//CS.PHONE
CX	Extension	rtrim(CX.EXT1)//rtrim(CS.EXT)	CX.EXT1//CS.EXT
CX	Merge Codes	rtrim(CX.MERGECODES)//rtrim(substring(CS.MERGECODES,2,20))	CX.MERGECODES//mid(CS.MERGECODES,2,20)
CX	Address	rtrim(CX.ADDRESS1)//rtrim(CS.ADDRESS1)	CX.ADDRESS1//CS.ADDRESS1
CX	Address Filled	rtrim(CX.ADDRESS1)//rtrim(Coalesce(nullif(CS.ADDRESS1,"), CX.ADDRESS1))	CX.Address1//iif(CS.ADDRESS1 is Null, CX.ADDRESS1, CS.ADDRESS1)
CX	Address2	rtrim(CX.ADDRESS2)//rtrim(CS.ADDRESS2)	CX.ADDRESS2//CS.ADDRESS2
CX	Address2 Filled	rtrim(CX.ADDRESS2)//rtrim(coalesce(substring(CS.ADDRESS2,1,datalength(CS.ADDRESS2+CS.ADDRESS1)),space(ascii(CS.ADDRESS1)/ascii(CS.ADDRESS1)),CX.ADDRESS2))	CX.Address2//iif(CS.ADDRESS1 is Null, CX.ADDRESS2, CS.ADDRESS2)
CX	Address3	rtrim(CX.ADDRESS3)//rtrim(CS.ADDRESS3)	CX.ADDRESS3//CS.ADDRESS3
CX	Address3 Filled	rtrim(CX.ADDRESS3)//rtrim(coalesce(substring(CS.ADDRESS3,1,datalength(CS.ADDRESS3+CS.ADDRESS1)),space(ascii(CS.ADDRESS1)/ascii(CS.ADDRESS1)),CX.ADDRESS3))	CX.Address3//iif(CS.ADDRESS1 is Null, CX.ADDRESS3, CS.ADDRESS3)
CX	City	rtrim(CX.CITY)//rtrim(Coalesce(nullif(CS.City,"), CX.City))	CX.CITY//IIF(CS.CITY is null, CX.CITY, CS.CITY)

Source	MM Field Name	SQLExpression	dBase Expression
CX	State	rtrim(CX.STATE)//rtrim(Coalesce(nullif(CS.State,"), CX.State))	CX.STATE//IIF(CS.STATE is null, CX.STATE, CS.STATE)
CX	Zip	rtrim(CX.ZIP)//rtrim(Coalesce(nullif(CS.ZIP,"), CX.ZIP))	CX.ZIP//IIF(CS.ZIP is null, CX.ZIP, CS.ZIP)
CX	Postal Zone	substring(CX.ZIP,1,3)//substring(Coalesce(nullif(rtrim(CS.ZIP,"), rtrim(CX.ZIP)),1,3)	left(CX.ZIP,3)//left(iif(CS.ZIP is null, CX.ZIP, CS.ZIP),3)
CX	Country	rtrim(CX.COUNTRY)//rtrim(Coalesce(nullif(CS.COUNTRY,"), CX.COUNTRY))	CX.COUNTRY//IIF(CS.COUNTRY is null, CX.COUNTRY, CS.COUNTRY)
CX	Fax	rtrim(CX.FAX)//rtrim(CS.FAX)	CX.FAX//CS.FAX
CX	Fax Filled	rtrim(CX.FAX)//rtrim(Coalesce(nullif(CS.FAX,"), CX.FAX))	CX.FAX//IIF(CS.FAX is null, CX.FAX, CS.FAX)
CX	Dear	rtrim(CX.DEAR)//rtrim(CS.DEAR)	CX.DEAR//CS.DEAR
CX	Source	Rtrim(CX.SOURCE)	CX.SOURCE
CX	KEY1	Rtrim(CX.KEY1)	CX.KEY1
CX	KEY2	Rtrim(CX.KEY2)	CX.KEY2
CX	KEY3	Rtrim(CX.KEY3)	CX.KEY3
CX	KEY4	Rtrim(CX.KEY4)	CX.KEY4
CX	KEY5	Rtrim(CX.KEY5)	CX.KEY5
CX	CXNotes	udfDBO\$.udfMMStripHTML(CX.NOTES)	CX.NOTES
CX	CXNotes2	substring(udfDBO\$.udfMMStripHTML(CX.NOTES),254,253)	mid(CX.NOTES,254)
CX	CXNotes3	substring(udfDBO\$.udfMMStripHTML(CX.NOTES),507,253)	mid(CX.NOTES,507)
CX	CXNotes4	substring(udfDBO\$.udfMMStripHTML(CX.NOTES),760,253)	mid(CX.NOTES,760)
CX	CXNotes5	substring(udfDBO\$.udfMMStripHTML(CX.NOTES),1013,253)	mid(CX.NOTES,1013)
CX	CreateBy	Rtrim(CX.CREATEBY)	CX.CREATEBY
CX	CreateOn	coalesce(convert(datetime,char(ascii(CX.accountno)+17*(isdate(substring(CX.accountno,1,6))-1))+substring(cx.accountno,2,5)), 'NullDate\$')	iif(isdate(format(mid(CX.ACCOUNTNO,2,5), '199#/#/#/#')), datevalue(format(mid(CX.ACCOUNTNO,2,5), iif(left(CX.ACCOUNTNO,1)='A', '200#/#/#/#', '199#/#/#/#'))), #NullDate\$#)
CX	Owner	Rtrim(CX.OWNER)	CX.OWNER
CX	Acct Last User	rtrim(CX.LASTUSER)//rtrim(CS.LASTUSER)	CX.LASTUSER//CS.LASTUSER
CX	Acct Last Modified	Coalesce(CX.LASTDATE, 'NullDate\$')//Coalesce(CS.LASTDATE, 'NullDate\$')	iif(CX.LASTDATE Is Null, #NullDate\$, CX.LASTDATE)//iif(CX.LASTDATE Is Null, #NullDate\$, CX.LASTDATE)
CX	C1AccountNo	CX.ACCOUNTNO//CX.ACCOUNTNO	CX.ACCOUNTNO//CX.ACCOUNTNO
CX	CXRecords	CX.RECID//CS.RECID	CX.RECID//CS.RECID

Source	MM Field Name	SQLExpression	dBase Expression																				
<table border="1"> <tr> <td colspan="2">Opportunity Manager Sub-Tables:</td> </tr> <tr> <td>OM</td> <td>Opportunities (Main table)</td> </tr> <tr> <td>OD</td> <td>Details</td> </tr> <tr> <td>OK</td> <td>Tasks</td> </tr> <tr> <td>OT</td> <td>Team Members</td> </tr> <tr> <td>OP</td> <td>Competitors</td> </tr> <tr> <td>OI</td> <td>Issues</td> </tr> <tr> <td>OC</td> <td>Influencers</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				Opportunity Manager Sub-Tables:		OM	Opportunities (Main table)	OD	Details	OK	Tasks	OT	Team Members	OP	Competitors	OI	Issues	OC	Influencers				
Opportunity Manager Sub-Tables:																							
OM	Opportunities (Main table)																						
OD	Details																						
OK	Tasks																						
OT	Team Members																						
OP	Competitors																						
OI	Issues																						
OC	Influencers																						
OM	Opp Record Type	Rtrim(OM.RECTYPE)	OM.RECTYPE																				
OM	Stage	Rtrim(OM.STAGE)	OM.STAGE																				
OM	Manager	Rtrim(OM.USERID)	OM.USERID																				
OM	Opp Flags	Rtrim(OM.FLAGS)	OM.FLAGS																				
OM	Opp Company	Rtrim(OM.COMPANY)	OM.COMPANY																				
OM	Opp Contact	LEFT(rtrim(OM.CONTACT), abs(charindex('OZ', OM.RECTYPE)- 1)*len(rtrim(OM.CONTACT)))	iif(left(OM.RECTYPE,2)<>'OZ', OM.CONTACT, ")																				
OM	Reason Win-Loss	left(rtrim(OM.CONTACT), charindex('OZ', OM.RECTYPE)*len(rtrim(OM.CONTACT)))	iif(left(OM.RECTYPE,2)='OZ', OM.CONTACT, ")																				
OM	Oppportunity	Rtrim(OM.NAME)	OM.NAME																				
OM	Opp Status	Rtrim(OM.STATUS)	OM.STATUS																				
OM	Opp Code	Rtrim(OM.CYCLE)	OM.CYCLE																				
OM	Opp Source	Rtrim(OM.SOURCE)	OM.SOURCE																				
OM	F1	Rtrim(OM.F1)	OM.F1																				
OM	F2	Rtrim(OM.F2)	OM.F2																				
OM	F3	Rtrim(OM.F3)	OM.F3																				
OM	Opp StartDate	Coalesce(OM.StartDate,'NullDate\$')	iif(OM.StartDate is null, #NullDate\$#, OM.StartDate)																				
OM	Opp CloseDate	Coalesce(OM.ClosedDate,'NullDate\$')	iif(OM.ClosedDate is null, #NullDate\$#, OM.ClosedDate)																				
OM	Opp CloseBy	Coalesce(OM.CloseBy,'NullDate\$')	iif(OM.CloseBy is null, #NullDate\$#, OM.CloseBy)																				
OM	Age	Datediff(day,Coalesce(OM.StartDate,'Null IDate\$'), getdate())	date() - iif(OM.StartDate is null, #NullDate\$#, OM.StartDate)																				
OM	StartDateTo Actual Close	Datediff(day,Coalesce(OM.StartDate,'Null IDate\$'), Coalesce(OM.ClosedDate,'NullDate\$'))	iif(OM.ClosedDate is null, #NullDate\$#, OM.ClosedDate) - iif(OM.StartDate is null, #NullDate\$#, OM.StartDate)																				
OM	StartDateTo Projected Close	Datediff(day,Coalesce(OM.StartDate,'Null IDate\$'), Coalesce(OM.CloseBy,'NullDate\$'))	iif(OM.CloseBy is null, #NullDate\$#, OM.CloseBy) - iif(OM.StartDate is null, #NullDate\$#, OM.StartDate)																				
OM	Opp Forecast	Coalesce(Convert(Real, OM.ForAmt),0)	iif(OM.ForAmt Is Null,0,val(OM.ForAmt))																				
OM	Opp Units	Coalesce(Convert(Real, OM.F3),0)	iif(OM.F3 Is Null,0,val(OM.F3))																				
OM	Opp Probability	Coalesce(Convert(Real, OM.ForProb),0)	iif(OM.ForProb Is Null,0,val(OM.ForProb))																				

Source	MM Field Name	SQLExpression	dBase Expression
OM	Opp ProbableAmount	Coalesce(Convert(Real, OM.ForAmt),0)*Coalesce(Convert(Real, OM.ForProb),0)/100	iif(OM.ForAmt Is Null,0,val(OM.ForAmt))* iif(OM.ForProb Is Null,0,val(OM.ForProb))/100
OM	Opp CloseAmount	Coalesce(Convert(Real, OM.CloseAmt),0)	iif(OM.CloseAmt Is Null,0,val(OM.CloseAmt))
OM	Opp Notes	udfDBO\$.udfMMStripHTML(OM.NOTES)	OM.NOTES
OM	Opp Notes2	substring(udfDBO\$.udfMMStripHTML(OM.NOTES),254,253)	mid(OM.NOTES,254)
OM	Opp Notes3	substring(udfDBO\$.udfMMStripHTML(OM.NOTES),507,253)	mid(OM.NOTES,507)
OM	Opp Notes4	substring(udfDBO\$.udfMMStripHTML(OM.NOTES),760,253)	mid(OM.NOTES,760)
OM	Opp Notes5	substring(udfDBO\$.udfMMStripHTML(OM.NOTES),1013,253)	mid(OM.NOTES,1013)
OM	Opp ID	OM.OPID	OM.OPID
OM	OMAccountNo	OM.ACCOUNTNO	OM.ACCOUNTNO
OM	OppRecords	OM.RECID	OM.RECID
OK	OKRecType	Rtrim(OK.RECTYPE)	OK.RECTYPE
OK	Task User	Rtrim(OK.USERID)	OK.USERID
OK	Task Reference	Rtrim(OK.COMPANY)	OK.COMPANY
OK	Task Status	Rtrim(OK.STATUS)	OK.STATUS
OK	Task Priority	Rtrim(OK.STAGE)	OK.STAGE
OK	Task Begin Date	OK.STARTDATE	OK.STARTDATE
OK	Task End Date	OK.CLOSEBY	OK.CLOSEBY
OK	Task PctDone	OK.CLOSEAMT	OK.CLOSEAMT
OK	OKAccountNo	OK.ACCOUNTNO	OK.ACCOUNTNO
OK	TaskRecords	OK.RECID	OK.RECID
OD	ODRectype	OD.RECTYPE	OD.RECTYPE
OD	Item	Rtrim(OD.FNAME)	OD.FNAME
OD	Reference	Rtrim(OD.FVALUE)	OD.FVALUE
OD	Sync	substring(OD.LINKEDDOC,8,1)	mid(OD.LINKEDDOC,8,1)
OD	Detail CreatedOn	convert(datetime,substring(OD.LINKEDDOC,23,8))	iif(isdate(format(mid(OD.LINKEDDOC,23,8),'###/###/##')),datevalue(format(mid(OD.LINKEDDOC,23,8),'###/###/##')),#NullDate\$#)
OD	Linked Doc	substring(OD.LINKEDDOC,47,30)	mid(OD.LINKEDDOC,47)
OD	Whole Link	OD.LINKEDDOC	OD.LINKEDDOC
OD	DetailRecords	OD.RECID	OD.RECID
OD	Detail Notes	udfDBO\$.udfMMStripHTML(OD.NOTES)	OD.NOTES
OD	Detail Notes2	substring(udfDBO\$.udfMMStripHTML(OD.NOTES),254,253)	mid(OD.NOTES,254)
OD	Detail Notes3	substring(udfDBO\$.udfMMStripHTML(OD.NOTES),507,253)	mid(OD.NOTES,507)
OD	Detail Notes4	substring(udfDBO\$.udfMMStripHTML(OD.NOTES),760,253)	mid(OD.NOTES,760)
OD	Detail Notes5	substring(udfDBO\$.udfMMStripHTML(OD.NOTES),1013,253)	mid(OD.NOTES,1013)
OT	OTRectype	OT.RECTYPE	OT.RECTYPE
OT	Team Member	Rtrim(OT.CONTACT)	OT.CONTACT
OT	MemberDepartment	Rtrim(OT.COMPANY)	OT.COMPANY
OT	MemberTitle	Rtrim(OT.NAME)	OT.NAME
OT	MemberRole	Rtrim(OT.STATUS)	OT.STATUS
OT	OTAccountNo	OT.ACCOUNTNO	OT.ACCOUNTNO

Source	MM Field Name	SQLExpression	dBase Expression
OT	TeamRecords	OT.RECID	OT.RECID
OP	OPRectype	OP.RECTYPE	OP.RECTYPE
OP	Competitor	Rtrim(OP.COMPANY)	OP.COMPANY
OP	Product	Rtrim(OP.NAME)	OP.NAME
OP	Strengths	Rtrim(OP.STATUS)	OP.STATUS
OP	Weaknesses	Rtrim(OP.CYCLE)	OP.CYCLE
OP	Rating	Rtrim(OP.SOURCE)	OP.SOURCE
OP	Status	Rtrim(OP.STAGE)	OP.STAGE
OP	CompContact	Rtrim(OP.CONTACT)	OP.CONTACT
OP	Linked	substring('No Yes',3*datalength(OP.ACCOUNTNO)/20 +1,3)	iif(OP.ACCOUNTNO is null, 'Yes', 'No')
OP	Comp Notes	udfDBO\$.udfMMStripHTML(OP.NOTES)	OP.NOTES
OP	Comp Notes2	substring(udfDBO\$.udfMMStripHTML(O P.NOTES),254,253)	mid(OP.NOTES,254)
OP	Comp Notes3	substring(udfDBO\$.udfMMStripHTML(O P.NOTES),507,253)	mid(OP.NOTES,507)
OP	Comp Notes4	substring(udfDBO\$.udfMMStripHTML(O P.NOTES),760,253)	mid(OP.NOTES,760)
OP	Comp Notes5	substring(udfDBO\$.udfMMStripHTML(O P.NOTES),1013,253)	mid(OP.NOTES,1013)
OP	OPAccountNo	OP.ACCOUNTNO	OP.ACCOUNTNO
OP	CompetitorRecords	OP.RECID	OP.RECID
OI	OIRectype	OI.RECTYPE	OI.RECTYPE
OI	Issue	Rtrim(OI.COMPANY)	OI.COMPANY
OI	Issue Priority	Rtrim(OI.STAGE)	OI.STAGE
OI	Issue Status	Rtrim(OI.STATUS)	OI.STATUS
OI	Issue Start	OI.STARTDATE	OI.STARTDATE
OI	Issue User	Rtrim(OI.USERID)	OI.USERID
OI	Issue Notes	OI.NOTES	OI.NOTES
OI	Issue Notes	udfDBO\$.udfMMStripHTML(OI.NOTES)	OI.NOTES
OI	Issue Notes2	substring(udfDBO\$.udfMMStripHTML(OI .NOTES),254,253)	mid(OI.NOTES,254)
OI	Issue Notes3	substring(udfDBO\$.udfMMStripHTML(OI .NOTES),507,253)	mid(OI.NOTES,507)
OI	Issue Notes4	substring(udfDBO\$.udfMMStripHTML(OI .NOTES),760,253)	mid(OI.NOTES,760)
OI	Issue Notes5	substring(udfDBO\$.udfMMStripHTML(OI .NOTES),1013,253)	mid(OI.NOTES,1013)
OI	OIAccountNo	OI.ACCOUNTNO	OI.ACCOUNTNO
OI	IssueRecords	OI.RECID	OI.RECID
OC	OCRectype	OC.RECTYPE	OC.RECTYPE
OC	InfluencerCompany	Rtrim(OC.COMPANY)	OC.COMPANY
OC	InfluencerContact	Rtrim(OC.CONTACT)	OC.CONTACT
OC	Title	Rtrim(OC.CYCLE)	OC.CYCLE
OC	Role	Rtrim(OC.STATUS)	OC.STATUS
OC	OCAccountNo	OC.ACCOUNTNO	OC.ACCOUNTNO
OC	InfluencerRecords	OC.RECID	OC.RECID

Source	MM Field Name	SQLExpression	dBase Expression																				
<table border="1"> <tr> <td colspan="2">Project Manager Sub-Tables:</td> </tr> <tr> <td>PJ</td> <td>Projects</td> </tr> <tr> <td>PK</td> <td>Tasks</td> </tr> <tr> <td>PD</td> <td>Details</td> </tr> <tr> <td>PF</td> <td>Contacts</td> </tr> <tr> <td>PT</td> <td>Team</td> </tr> <tr> <td>PI</td> <td>Issues</td> </tr> <tr> <td>PC</td> <td>Influencers</td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </table>				Project Manager Sub-Tables:		PJ	Projects	PK	Tasks	PD	Details	PF	Contacts	PT	Team	PI	Issues	PC	Influencers				
Project Manager Sub-Tables:																							
PJ	Projects																						
PK	Tasks																						
PD	Details																						
PF	Contacts																						
PT	Team																						
PI	Issues																						
PC	Influencers																						
PJ	Project Record Type	PJ.RECTYPE	PJ.RECTYPE																				
PJ	Project	Rtrim(PJ.NAME)	PJ.NAME																				
PJ	Proj Company	Rtrim(PJ.COMPANY)	PJ.COMPANY																				
PJ	Proj Contact	Rtrim(PJ.CONTACT)	PJ.CONTACT																				
PJ	Manager	Rtrim(PJ.USERID)	PJ.USERID																				
PJ	Proj Code	Rtrim(PJ.CYCLE)	PJ.CYCLE																				
PJ	Proj Status	Rtrim(PJ.STATUS)	PJ.STATUS																				
PJ	Proj Stage	Rtrim(PJ.STAGE)	PJ.STAGE																				
PJ	Proj Source	Rtrim(PJ.SOURCE)	PJ.SOURCE																				
PJ	Start Date	coalesce(PJ.STARTDATE, 'NullDate\$')	PJ.STARTDATE																				
PJ	End Date	coalesce(PJ.CLOSEBY, 'NullDate\$')	PJ.CLOSEBY																				
PJ	Actual End	coalesce(PJ.CLOSEDDATE, 'NullDate\$')	PJ.CLOSEDDATE																				
PJ	Age	datediff(day, Coalesce(PJ.STARTDATE, getdate()), getdate())	date() - PJ.STARTDATE																				
PJ	DaysFromStartToActualEnd	datediff(day, PJ.STARTDATE, coalesce(PJ.Closeddate, getdate()))	PJ.CLOSEDDATE - PJ.STARTDATE																				
PJ	DaysFromTodayUntilEndDate	datediff(day, getdate(), Coalesce(PJ.CLOSEBY, getdate()))	PJ.Closeby - date()																				
PJ	Proj Notes	udfDBO\$.udfMMStripHTML(PJ.NOTES)	PJ.NOTES																				
PJ	Proj Notes2	substring(udfDBO\$.udfMMStripHTML(PJ.NOTES),254,253)	mid(PJ.NOTES,254)																				
PJ	Proj Notes3	substring(udfDBO\$.udfMMStripHTML(PJ.NOTES),507,253)	mid(PJ.NOTES,507)																				
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PJ	Proj Notes5	substring(udfDBO\$.udfMMStripHTML(PJ.NOTES),1013,253)	mid(PJ.NOTES,1013)																				
PJ	F1	Rtrim(PJ.F1)	PJ.F1																				
PJ	F2	Rtrim(PJ.F2)	PJ.F2																				
PJ	F3	Rtrim(PJ.F3)	PJ.F3																				
PJ	ProjectFlags	Rtrim(PJ.FLAGS)	PJ.FLAGS																				
PJ	ProjectID	PJ.OPID	PJ.OPID																				
PJ	PJAccountNo	PJ.ACCOUNTNO	PJ.ACCOUNTNO																				
PJ	ProjectRecords	PJ.RECID	PJ.RECID																				
PK	PKRecType	Rtrim(PK.RECTYPE)	PK.RECTYPE																				
PK	Task User	Rtrim(PK.USERID)	PK.USERID																				
PK	Task Reference	Rtrim(PK.COMPANY)	PK.COMPANY																				
PK	Task Status	Rtrim(PK.STATUS)	PK.STATUS																				
PK	Task Priority	Rtrim(PK.STAGE)	PK.STAGE																				

Source	MM Field Name	SQLExpression	dBase Expression
PK	Task Begin Date	PK.STARTDATE	PK.STARTDATE
PK	Task End Date	PK.CLOSEBY	PK.CLOSEBY
PK	Task PctDone	PK.CLOSEAMT	PK.CLOSEAMT
PK	Task Notes	udfDBO\$.udfMMStripHTML(PK.NOTES)	PK.NOTES
PK	Task Notes2	substring(udfDBO\$.udfMMStripHTML(PK.NOTES),254,253)	mid(PK.NOTES,254)
PK	Task Notes3	substring(udfDBO\$.udfMMStripHTML(PK.NOTES),507,253)	mid(PK.NOTES,507)
PK	Task Notes4	substring(udfDBO\$.udfMMStripHTML(PK.NOTES),760,253)	mid(PK.NOTES,760)
PK	Task Notes5	substring(udfDBO\$.udfMMStripHTML(PK.NOTES),1013,253)	mid(PK.NOTES,1013)
PK	PKAccountNo	PK.ACCOUNTNO	PK.ACCOUNTNO
PK	TaskRecords	PK.RECID	PK.RECID
PF	PFRectype	Rtrim(PF.RECTYPE)	PF.RECTYPE
PF	Detail Item	Rtrim(PF.FNAME)	PF.FNAME
PF	Detail Reference	Rtrim(PF.FVALUE)	PF.FVALUE
PF	Detail Notes	udfDBO\$.udfMMStripHTML(PF.NOTES)	PF.NOTES
PF	Detail Notes2	substring(udfDBO\$.udfMMStripHTML(PF.NOTES),254,253)	mid(PF.NOTES,254)
PF	Detail Notes3	substring(udfDBO\$.udfMMStripHTML(PF.NOTES),507,253)	mid(PF.NOTES,507)
PF	Detail Notes4	substring(udfDBO\$.udfMMStripHTML(PF.NOTES),760,253)	mid(PF.NOTES,760)
PF	Detail Notes5	substring(udfDBO\$.udfMMStripHTML(PF.NOTES),1013,253)	mid(PF.NOTES,1013)
PF	Sync	substring(PF.LINKEDDOC,8,1)	mid(PF.LINKEDDOC,8,1)
PF	Detail CreatedOn	convert(datetime,substring(PF.LINKEDDOC,23,8))	iif(isdate(format(mid(PF.LINKEDDOC,23,8),'###/###/##')),datevalue(format(mid(PF.LINKEDDOC,23,8),'###/###/##')),#NullDate\$#)
PF	Linked Doc	substring(PF.LINKEDDOC,47,30)	mid(PF.LINKEDDOC,47)
PF	Whole Link	PF.LINKEDDOC	PF.LINKEDDOC
PF	DetailRecords	PF.RECID	PF.RECID
PT	PTRectype	Rtrim(PT.RECTYPE)	PT.RECTYPE
PT	Team Member	Rtrim(PT.CONTACT)	PT.CONTACT
PT	Department	Rtrim(PT.COMPANY)	PT.COMPANY
PT	Title	Rtrim(PT.NAME)	PT.NAME
PT	Role	Rtrim(PT.STATUS)	PT.STATUS
PT	PTAccountNo	PT.ACCOUNTNO	PT.ACCOUNTNO
PT	TeamRecords	PT.RECID	PT.RECID
PI	PIRectype	Rtrim(PI.RECTYPE)	PI.RECTYPE
PI	Issue	Rtrim(PI.COMPANY)	PI.COMPANY
PI	Issue Priority	Rtrim(PI.STAGE)	PI.STAGE
PI	Issue Status	Rtrim(PI.STATUS)	PI.STATUS
PI	Issue Start	PI.STARTDATE	PI.STARTDATE
PI	Issue User	Rtrim(PI.USERID)	PI.USERID
PI	Issue Notes	udfDBO\$.udfMMStripHTML(PI.NOTES)	PI.NOTES
PI	Issue Notes2	substring(udfDBO\$.udfMMStripHTML(PI.NOTES),254,253)	mid(PI.NOTES,254)
PI	Issue Notes3	substring(udfDBO\$.udfMMStripHTML(PI.NOTES),507,253)	mid(PI.NOTES,507)

Source	MM Field Name	SQLExpression	dBase Expression
PI	Issue Notes4	substring(udfDBO\$.udfMMStripHTML(PI.NOTES),760,253)	mid(PI.NOTES,760)
PI	Issue Notes5	substring(udfDBO\$.udfMMStripHTML(PI.NOTES),1013,253)	mid(PI.NOTES,1013)
PI	PIAccountNo	PI.ACCOUNTNO	PI.ACCOUNTNO
PI	IssueRecords	PI.RECID	PI.RECID
PC	PCRectype	Rtrim(PC.RECTYPE)	PC.RECTYPE
PC	ContactCompany	Rtrim(PC.COMPANY)	PC.COMPANY
PC	ContactName	Rtrim(PC.CONTACT)	PC.CONTACT
PC	ContactTitle	Rtrim(PC.CYCLE)	PC.CYCLE
PC	ContactRole	Rtrim(PC.STATUS)	PC.STATUS
PC	PCAccountNo	PC.ACCOUNTNO	PC.ACCOUNTNO
PC	ContactRecords	PC.RECID	PC.RECID

Appendix E: A Note on Notes

Notes fields in GoldMine are of unlimited length, which poses a challenge to users who want to work with them in reporting or analysis. In order to make them manageable, MasterMine extracts Notes fields from your data in sequentially numbered segments, each 253 bytes (characters) long. These segments, with names like “CS.Notes”, “CSNotes2”, “CSNotes3”, etc. must remain contiguous in the MasterMine query in order for MasterMine to handle them properly, as described below.

The user must decide how many of these segments to use for the job at hand. Although notes can be theoretically of unlimited length, consider what the maximum length of one of your notes might be in practice or, alternatively, how much of the longer notes you are willing to ignore for your report. A typical user might decide that everything they need is probably contained in the first 253 characters of the notes, and therefore would include only CS.Notes (not CS.Notes2, etc.) in their query.

If you need more than the first 253 characters, check on additional segments as necessary. Be sure to start at the first notes field and check on additional segments sequentially. Checking too many notes fields will make your report querying very inefficient and may overflow machine memory in extreme cases.

In your pivot table, these segments behave the same as any other field except as follows:

1. If you display a notes field in your pivot table Row Area, the “Optimize Columns” button on the MasterMine toolbar sets the width of that column to 50 characters and wraps its content into multi-line cells for easier viewing.
2. In the Row area, non-printable characters in the field such as carriage returns and line-feeds appear as square boxes (□) and do not cause an actual carriage return.
3. When you drill down, all note segments are re-joined into a single column and re-formatted for easy reading.

Inexperienced users often don't realize that seeing notes is very easy to do by drilling through a MasterMine report to “pop” the relevant GoldMine record. If possible, include notes only if you know you will need to see them in your report.

HTML code in Notes fields

GoldMine includes HTML formatting codes in notes fields in its default setup. SQL versions of MasterMine since 5.1 have automatically included an “HTML filter” to prevent these codes from appearing in reports. This filter is a user-defined SQL function of the form, `udfDBO$.udfMMStripHTML(CS.NOTES)`.

For users of dBase-based GoldMine (Standard edition), no such filter is possible. However, we recommend turning off the HTML feature in GoldMine for any notes field you intend to use in reports. Remember, there are notes fields in several different tables: Contact1, ContHist, Cal, and ContSupp.

To turn off HTML coding (and thereby leave only text in your notes fields), add the following lines, as appropriate, to your GM.INI file in the [GoldMine] section:

```
HTML_CAL_Notes=0  
HTML_CONTHIST_Notes=0  
HTML_CONTACT1_Notes=0  
HTML_CONTSUPP_Notes=0
```

This will disable HTML notes for whichever tables you include in the list (you need not do all four). Remember, this will affect only newly saved notes, entered after you make this change.

When finished editing GM.INI, log into GoldMine again. All future notes you create will be without HTML.

Appendix F: Special Fields

In addition to fields loaded without any formatting, a number of important “expression” fields are included for more penetrating analyses. Fields of detail level ‘4’ are included only if pre-defined as part of a report or if you expressly select them on the tab “Fields Used” in expert mode. They can all be added manually, if necessary, after a report exists, by going to MSQuery and adding them to the query.

Contact1 (main table containing basic contact information)

Field Name	Contains	Useful For	Featured in these toolkit reports:
Linked To Contact	Yes or No if Pending or History record is linked to a contact in the currently open GoldMine contact set	Distinguishing records that are not tied to the currently selected GoldMine contact set	All reports including CA and CH linked to Contact1
Postal Zone	First 3 digits of zip code	Sorting by Sectional Center Facility for mailing, sometimes for territory splitting	All Contact1 reports
PrimaryEmail	(SQL only) Returns the e-mail of the contact if “Primary” is designated or if only one exists for the contact.	E-mail lists, exporting GoldMine data to outside vendors, etc.	All reports using Contact1

Contact2 (supplementary table to basic contact information)

Field Name	Contains	Useful For	Featured in these toolkit reports:
Linked To Contact	Yes or No if Pending or History record is linked to a contact in the current GoldMine contact set	Distinguishing records that are not tied to the currently selected GoldMine contact set	All reports including CA and CH linked to Contact2
CUSTOM FIELDS	User customized fields, non-standard in GoldMine	Including all kinds of customized data	

Cal (table of pending activities)

Field Name	Contains	Useful For	Featured in these toolkit reports:
OnDay	Weekday name on which pending activity is scheduled to occur	Building Calendar-type tables	Calendar
OnHour	First 2 characters of OnTime	Summarizing by hour within OnDate	Calendar
DaysTill	Days between today and OnDate	Prioritizing, calculating average days until activities are due, etc.	New Client Pending Sales
Short Reference	First N characters of “Reference” field, where N is a default stored in the MasterMine ini file (MMINI.xls)	Summarizing on Reference field without including 60 characters per record in the query (saves RAM)	All tables with CAL data
HasNotes	Yes or No, if pending record contains data in the notes field	Tracking level of activity/data entry by creator of pending records	All tables with CAL data
Potential Amount	Numeric dollar value of pending sales	Summing pending sale volume	Sales Pending, Referral Sales Pending, New Client Sales Pending, etc.
Potential Units	Numeric value of pending unit sales	Summing pending unit sales	“
Probable Amount	Dollar value of pending sales times probability	Weighted Sales projections	“
Probable Units	Pending unit sales times probability	Weighted sales projections	“

Special Fields (cont'd)

ContHist (table of completed activities)

Field Name	Contains	Useful For	Featured in these toolkit reports:
OnDay	Day of the week on which activity took place.	Building calendar-type tables	History Calendar
DaysSince	Number of days since event occurred.	Ageing, prioritizing activities	
LogUpdate	Designates how many fields were updated at once and recorded in a history "LOG" record	History Log reporting works best if all LOG records are "1"s. Use this field to multiple-update LOG records	History Log
LogField	Field whose updating is recorded in a "LOG" record in history	Tracking sales progress and general contact updates.	History Log
LogChange	Change that was made to LogField and recorded in "LOG" record.	Tracking sales progress and general contact updates.	History Log
CH Contact	Person actually contacted. Blank if none given in history record.	Seeing who was actually contacted	
CH or C1Contact	Person actually contacted. Contains "Contact" field from Contact1 if there is none given in the ContHist record.	Tracking actual contact instead of merely the "lead" contact from Contact1.	
HasNotes	Yes or No, if there are notes in the Contact record.	Tracking level of activity/data entry by creator of history record	All tables with ContHist data
Minutes	Duration field converted to a decimal number of minutes.	Tracking time on phone, time doing various activities, timesheets, billing records, etc.	Calls Completed, Call Value
Hours	Duration field converted to decimal number of hours.	Tracking time on phone, time doing various activities, timesheets, billing records, etc.	Timesheet
Days2Sale	Days difference between the date of sale (OnDate) and date the sale record was created as a pending record (CreateOn).	Calculating sales cycle, tracking followup by sales reps.	Sales Cycle

Appendix G: Other Field Contents and Conventions

- OnDate is pre-grouped into Year, Month, Day and Week groups and appropriately renamed. Other Date fields can be similarly grouped by the end user.
- Dates appear as 1/1/1989 if they are null. This enables grouping by month, year, etc. Records appearing under this date are good candidates for “data integrity checking”.
- **Special fields:** Reports involving an “outer join” (where all records from Cal or ContHist file are included and ONLY those in Contact1 or Contact2 where there is an ACCOUNTNO match) have a field called “Linked to Contact”. A “Yes” in this field indicates that the target record is linked to the selected contact set. By default, this field is set to “Yes” in templates, if there are any linked records at all. Report results can be misleading if the user fails to pay attention to this field’s setting.
- RECTYPE (in Cal and ContHist) is parsed into three fields for easier interpreting:
 - The first character (or SRECTYPE if present) denotes the general Record Type. The left two characters denote a more detailed categorization, so the button is called “Record Type (Detail)”. The third character of RECTYPE (“U” if unsuccessful) is interpreted in the “Success” Field button. See the GoldMine Reference Manual for database structures and internal logic.
- MasterMine provides a “Short Reference” field consisting of the first “n” characters of the “REF” field in Cal and ContHist, where “n” is a preference set in the MMINI.xls. This assists efficient loading, since the REF fields in these files are 80 and 65 characters long, respectively. If you need the entire REF field, select it specifically on the “Fields” tab in “Expert Mode” when creating a report.
- The REF field in History is stripped of the “(oc:” contact reference. This reference appears separately in the “CH Contact” field.
- Sales projection reports include “calculated fields” for probable sales. That is, projected sales counts and dollar amounts are multiplied by the “probability”, taken from the NUMBER1 field in Cal.
- The “Company” field in the CAL database contains either contact or company information, according to settings in GoldMine. It’s best to rely on a report that joins Cal and Contact1, and use C1.Company for true Company information.
- Field buttons are re-named as described in the table in References called “GoldMine Data Sources”
- The DURATION field (in Cal and ContHist) is interpreted according to context:
 - __:__:__ format is converted to a decimal number of minutes for easier summary
 - If the first character is a number, the value of numeric characters up to the first non-numeric character is returned.
 - If first character is a string, 0 is returned.
 - If the field data is null, 0 is returned.

The corresponding field button is named “Minutes” or “Sales” as appropriate, or “Minutes|Sales\$” if both types of record are possible.

- RECID is included in most tables as the most reliable “count” field, labelled “XXRecords” where XX represents the source file. Since count fields in the data area increment only if data are present in the field, and RECID is the most likely to include some data, we prefer to use this field for counts in the data area. **Be careful:** if you use another field as a “count of” data field, only records with non-null values in the target field get counted. It’s easy to trick yourself into believing false results.

Appendix H: Pivot Table Limitations

There are certain limits to what can be displayed in a Pivot Table. The limits are a direct consequence of the extraordinary flexibility and agility that Pivot Tables offer you in displaying your data, because Excel keeps all your data in live memory. As Excel has evolved over the years, these limitations have made each major release of Excel, and therefore MasterMine, even MORE useful.

Here's a summary of the specifications and limitations for the succession of Excel releases. Read below for a full explanation of what these limitations actually mean in practice:

Limited Feature	Excel 2000	Excel XP	Excel 2003	Excel 2007
Max. Unique Items per Field (for display)	8,000	32,768	32,768	1 Million
Rows Allowed in Pivot Table	64,000	64,000	64,000	1 Million
Columns Allowed in Pivot Table	255	255	255	16,000
Maximum Number of Records	No maximum.	No maximum.	No maximum.	No maximum.
Maximum Query Size	100MB	Available RAM	Available RAM	Available RAM
Column Field "Intersections"	32,768 possible intersections	32,768 <u>Actual</u> intersections	32,768 <u>Actual</u> intersections	1 Million <u>Actual</u> intersections
Row Field "Intersections"	2.1Billion possible intersections	2.1Billion <u>Actual</u> intersections	2.1Billion <u>Actual</u> intersections	Limited by available memory

Pivot Tables are best suited to display up to a few screens full of data at a time. If they are wisely used, they can almost always display what you need to see when you need to see it. However, they (and, by extension, MasterMine) are of limited use as a "data dumping" device as opposed to an analytical/summary reporting or simple line-listing device.

Maximum Number of Records

There is no fixed maximum number of records you can use when you create a Pivot Table.

In practice, creating a Pivot Table from an external database that contains a very large number of records can strain the performance of the workstation on which Excel is running, and can take a very long time to complete, if your query is so large that it uses up all available RAM

Maximum Query Size

With Office 2000 or lower, you will receive an “Out of Memory” error if you try to query more than 100MB of data. For Office XP and later, there is no fixed maximum size to Pivot Table cache memory. The maximum size is usually limited only by the amount of available memory on your computer.

Data Intersections: Column Fields and Row Fields

For Office 2003 and below, your Pivot Table limits the number of fields you can put simultaneously in the Row and/or Column areas of your report. There is NOT a fixed limit on the number of fields, however. The limit is set by the product of all unique items in each of the fields in the row or column area. This limitation is much less significant for later versions of Office.

As long as the data are in the page area, the limitation is primarily a function of RAM. However, once they are brought down into the Pivot Table Row or Column Area, the data start running into these pre-defined limits.

The key issue is the number of data “intersections” that are set up. Suppose, for example, you add three fields to the Row area of your report, and each of these fields has 100 possible values (“unique items”) within it. There are, then, 100 cubed (100^3) possible combinations, or 1,000,000 “intersections”.

With Office 97 or Office 2000, Excel creates a memory location for each possible combination of these values, because any given record might have any combination of these items in it. In the Row area, your pivot table is limited to 2.1 billion intersections. In the column area, the limit is 32,768 intersections.

With Office XP and later, Excel holds these intersections in memory ONLY if there is actual data that would occupy them. That is, an intersection is “used” only if your query actually contains at least one row whose fields contain the item in each of the three fields represented by that intersection. In practice, your data probably will not have a representative of each of these combinations in it, so beginning with Office XP, your pivot table can accommodate vastly more fields in the row or column area without hitting the limit.

Example: Assume you create a Pivot Table that contains five column fields. The fields contain 10, 5, 2, 40 and 3 items, respectively. The product of these values is $10 \times 5 \times 2 \times 40 \times 3$, or 12,000 possible “intersections”.

If you try to add one more field that contains three items, the product would be 12,000 x 3, or 36,000. Because this number exceeds the maximum product of the items, you receive the following error message:

Not enough memory to completely display Pivot Table.

Note that worksheets in Microsoft Excel are limited to 256 columns. Because of this, even if you successfully create a Pivot Table that contains a large number of column fields, you may not be able to display the entire expanded Pivot Table.

Managing Row Fields:

The product of the number of items in all row fields in a Pivot Table cannot exceed 2^{31} (2 raised to the 31st power), or approximately 2.1 billion items. The same logic that applies to column fields also applies to row fields.

Assuming you wanted to build a report whose first several columns consisted of personal data, such as names and phone numbers, and that each name and number was unique in the report, you could include the following before running into the 2.1 billion limit:

- 3 columns of 1,285 unique items each (1,285 to the 3rd power is less than 2.1 Billion)
- 4 columns of 215 unique items each (215 to the 4th power < 2.1 Billion)
- 5 columns of 73 unique items each (73 to the 5th power < 2.1 Billion)
- 6 columns of 35 unique items each, etc. (35 to the 6th power < 2.1 Billion)

Items per Field

This is the most significant pivot table limit as far as reporting is concerned.

A field in the Page, Row, or Column areas of your pivot table may not contain more unique items than the limits shown in the table above. If you attempt to pull in a field containing more items than the limit, you will be shown an error message.

This limitation is the best reason to upgrade to a later version of Office if you have a large database, that is, one containing more than, say, 20,000 account records or, if you wish to report on details of completed activities, more than 30,000 history records.

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