

**QUERY
USER MANUAL
Chapter 7**

The Spectrum System
Georgia State University

PeopleSoft Financials
Version 7.5

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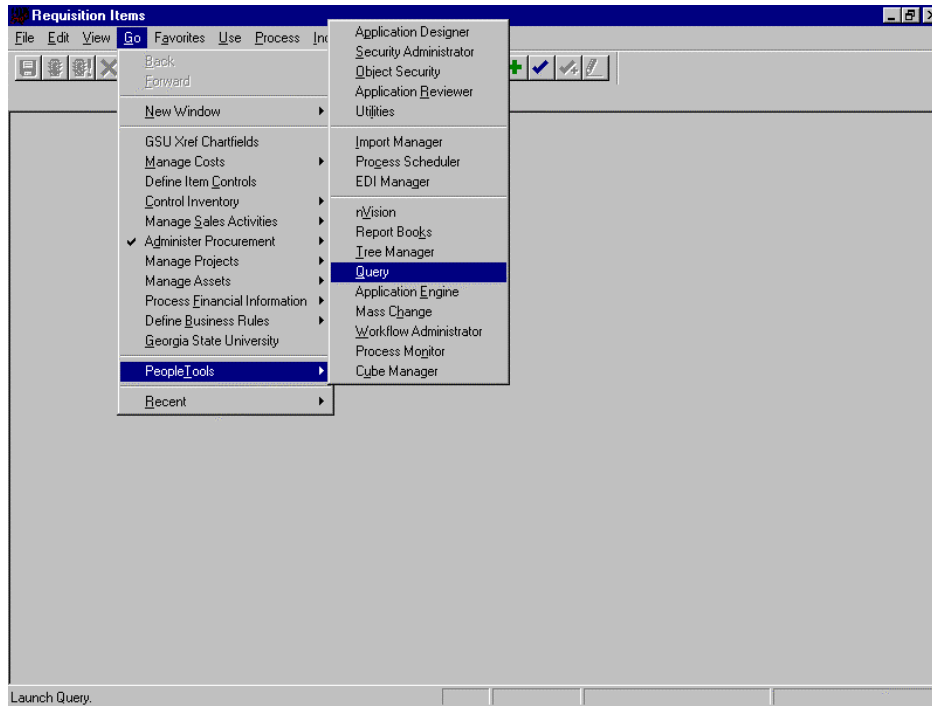
1. Introduction

1.1. Query Tool

One of the advantages of the Spectrum System is enhanced reporting capability. There are many ways to obtain reports within the system. Online reports are available through inquiry panels and can be printed if necessary. Query is another online reporting tool that is available for basic reporting functions. Crystal reporting software enhances the data formats obtained through Query and can be printed if necessary. Query reports are also easily converted to Excel spreadsheets, which allow the user to format and manipulate the data.

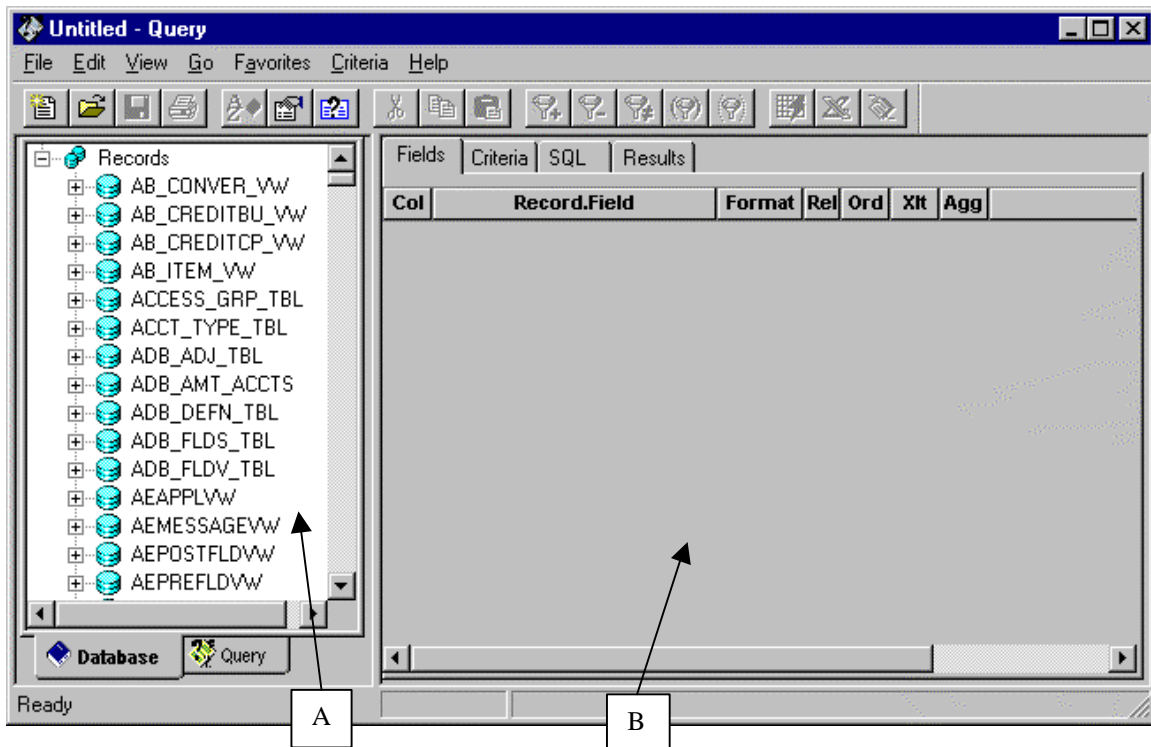
2. Opening the Query Tool

To open PeopleSoft's Query Tool select *GO, People Tools, Query*.



3. The Query Tool Panel

After selecting the Query option this Panel should popup.



There are two major components in this screen that we should be familiarized with; the Component View (A) and the Designer View (B).

3.1. Component View (A)

As soon as the Query panel is accessed, the user will have full access to a list of all the tables that composed the database (Database Tab). Once a table is selected the user will have access to all its components by selecting the Query Tab.

3.2. Designer View (B)

The designer view presents the user with all the information related to the query that is being design such as *Field*, *Criteria*, *SQL* and *Results*. The designer view contains all of the information selected for the current query, including fields chosen criteria for those fields, and any other associated details. There are four tabs on the designer view: Fields, Criteria, SQL, and Results.

3.2.1. Designer View Components

Fields	Criteria	SQL	Results					
Col	Record.Field	Format	Rel	Ord	Xlt	Agg	Heading	

The **Column** field gives you the order in which selected fields will show in query results.

The **Record Field** will show you the selected field name.

Format will tell the user the field type (numeric or characters) and its length (10).

The **Reference** field will show an **X** when the Record field is related to a Prompt Table. It also shows an **X** if you are joining tables and using a value that is not a *Unique Record Field*.

Order shows the order in which fields will be displayed.

Xlt field indicates weather the field will be displayed by a code or complete field description. If it shows an **N** you will only see the transaction code.

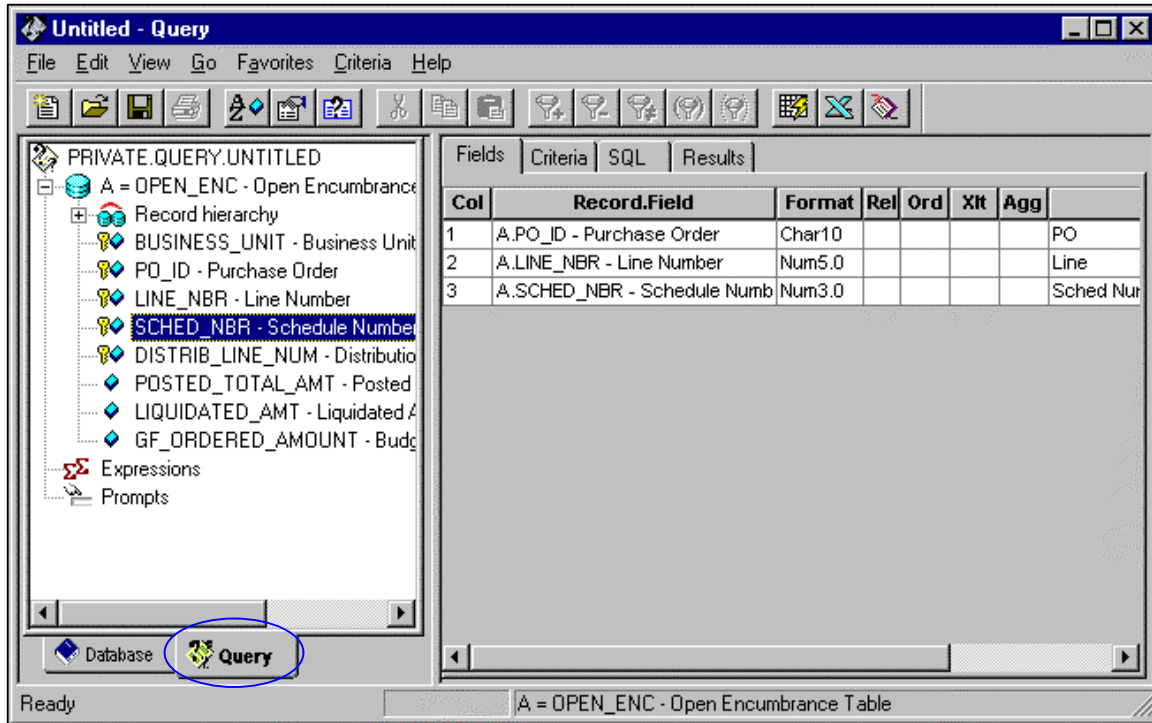
Agg field lets you know if the field is tied to an aggregate function such as Max, Min or Sum.

Heading field shows heading for column in final result.

4. Basic Steps to Creating a Query

4.1. Table Selection

Select table for which you want to do a Query. To select a query, click on the database tab and select a table. After selecting the table the user can proceed with the selection of fields to use on this query.



4.2. Table Components

When a table is selected the system will change automatically to the Query tab (circled) and show all table components.



Record Key



Unique field key



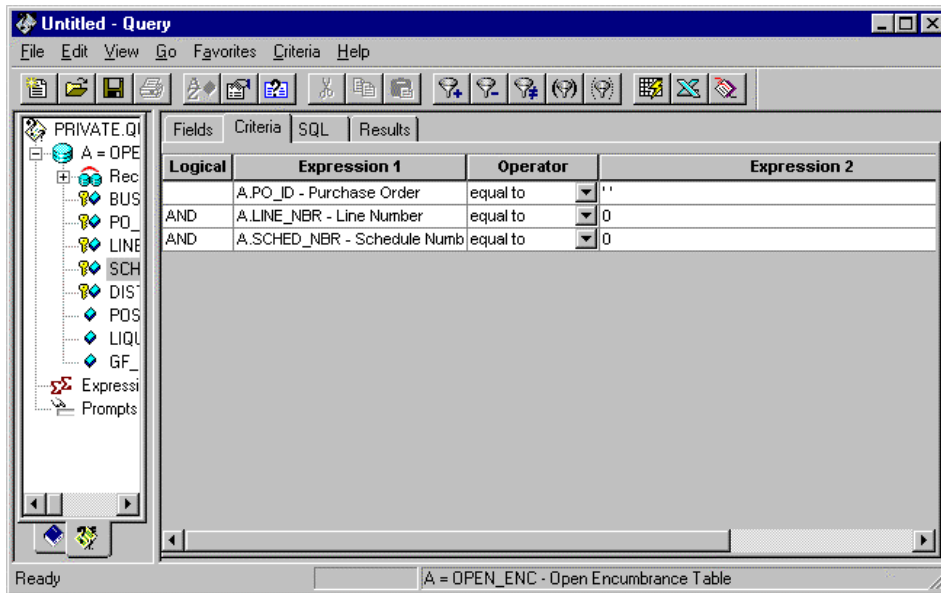
Field Key

*To **select** any of the table field double click it, right click over it and select add or drag the selected field.*

*To **eliminate** a non-desire field, highlight it and right click over. Press the select option and it will be removed from the design view.*

4.3. Criteria for Query

A user must establish criteria for a Query in order to ensure a more accurate result of its search. The system gives you some tools that allows to do just that.



Logical

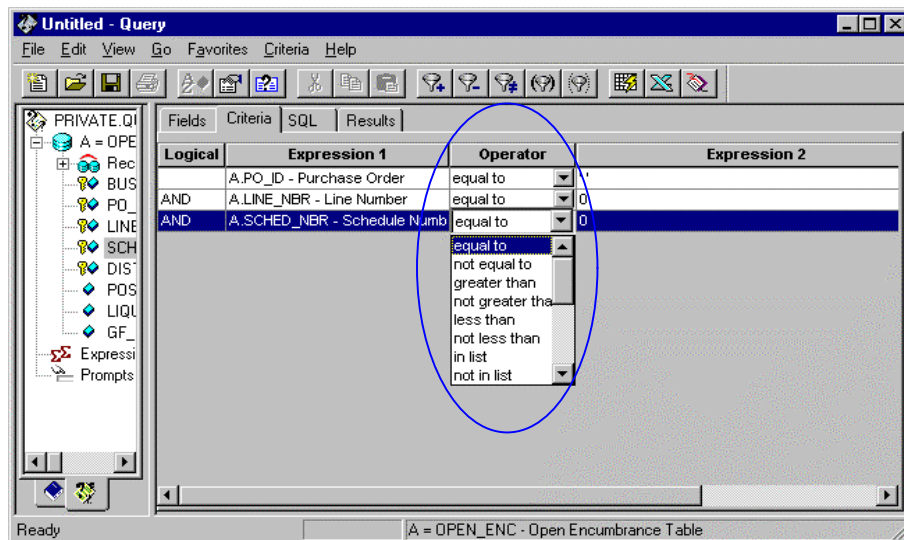
Shows the logical value of the row. It is defaulted to be *and* but can be changed to *or* to meet criteria requirements.

Expression 1

Presents the user with the description of the field being used as part of the criteria.

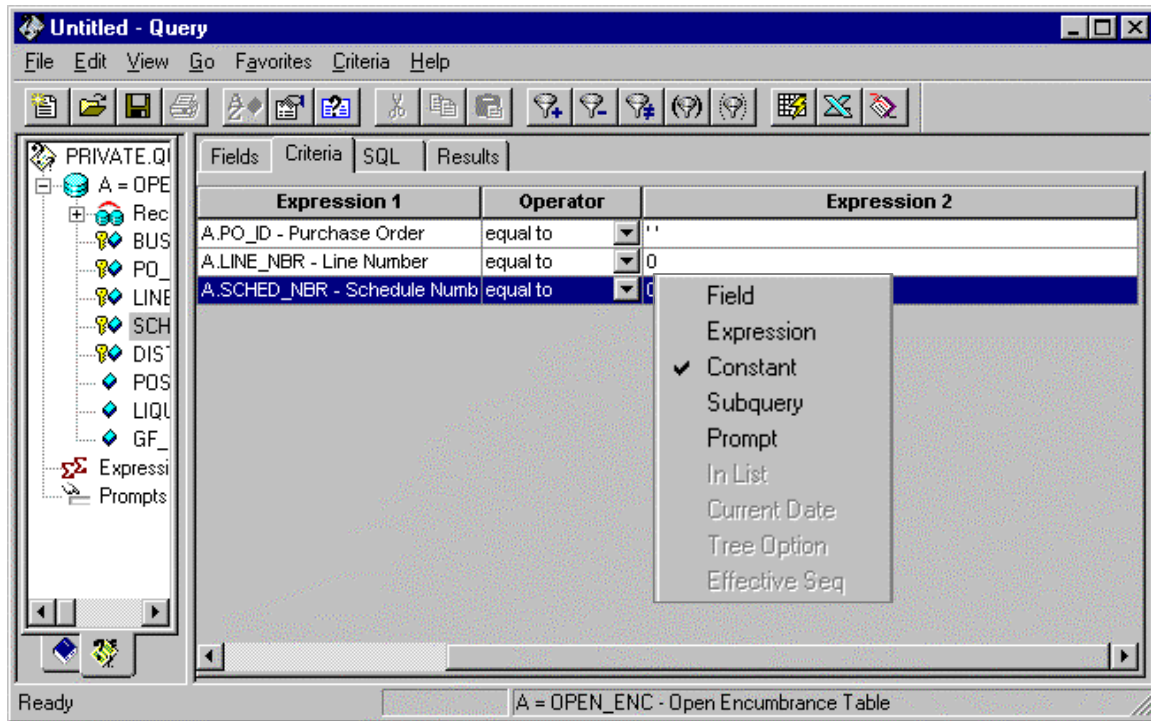
Operator

Is the key to establish a relation between expression 1 (selected field) and expression 2 (search criteria). To select from available options, click the drop down box and select by double clicking or highlighting and pressing enter on your keyboard.



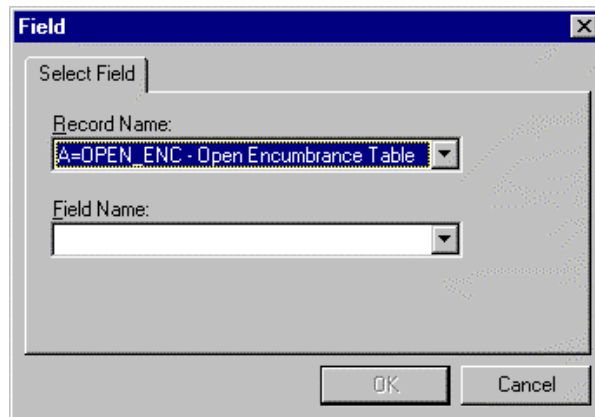
Expression 2

To select the value for expression 2 right click over the field and select from popup window.



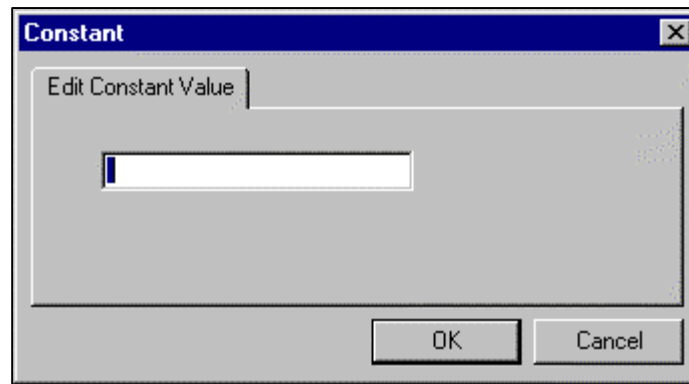
Field

Relates to a value from a different filed. It is usually related to some other table. This option is commonly used when joining tables.



Constant

It searches for a fixed value.



Prompt

This option is used to create a window in which the user will be entering a value before running the query.

4.3.1. Panel Criteria Icons



This icon is used to add new criteria to the query.



This icon is used to eliminate criteria from the query.



This icon is used to hold criteria.



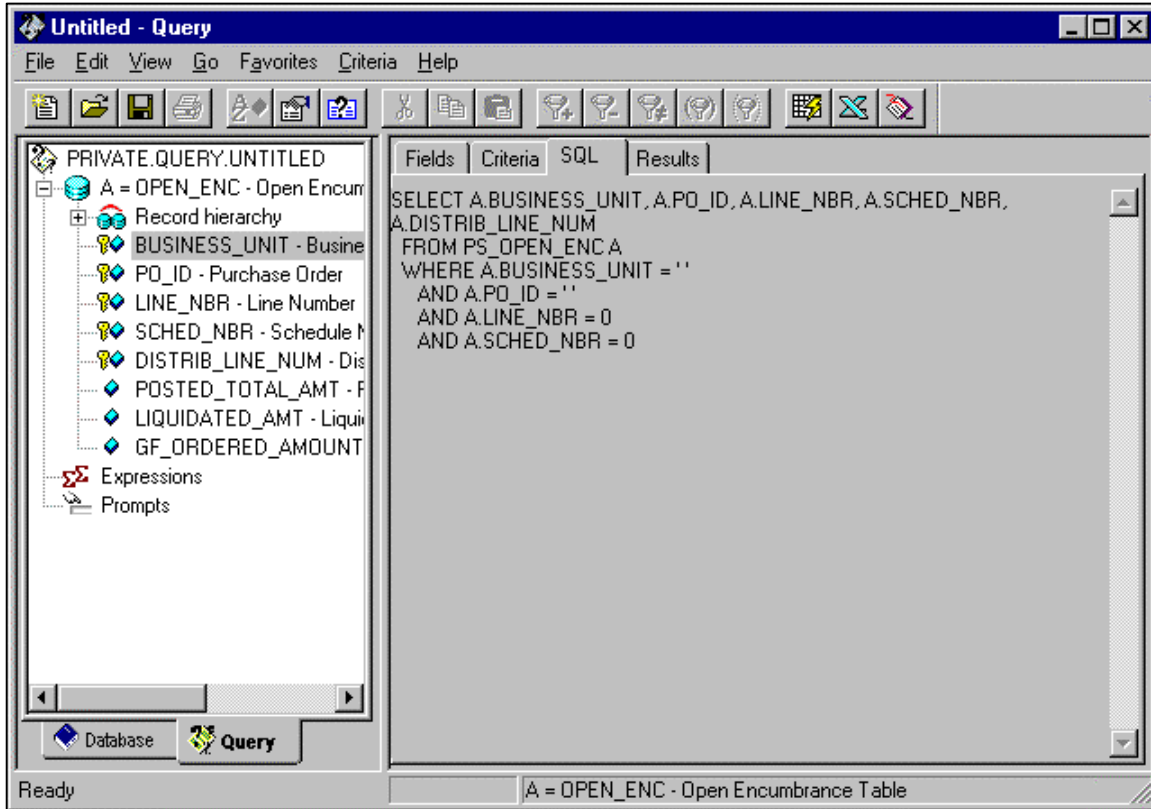
This icon is used to group criteria. When using this option highlight all criteria you want to put together as a group and then press the icon.



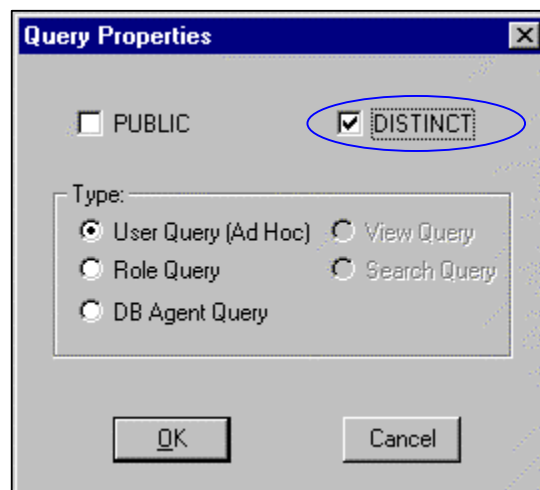
This icon is used to ungroup criteria. When using this option highlight the criteria you want to remove from group and then press the icon

4.4. SQL Panel Tab

This panel tab shows the instructions generated by the system based in the criteria and tables the user has selected. This is the result of the expressions, operators and selected fields being used. This is an SQL statement.



It is recommended that before running a query the users selects the **Distinct Option**. This option will remove any duplicated data before showing the results. To do this select **File, Properties**. A window will popup, select **Distinct** by marking the checkbox. (See below).



4.5. Results Panel Tab

After selecting the criteria the user can proceed with running the query. To execute query select the lightning bolt icon. This will run the SQL statement and will show the results in the Results Panel Tab. The user can analyze obtained data.

After running the query your screen will look like the one below. You will be able to see how many rows were call by your query on the right hand bottom corner of your screen.

The screenshot shows a software window titled "Untitled - Query" with a menu bar (File, Edit, View, Go, Favorites, Criteria, Help) and a toolbar. The toolbar contains several icons, including a lightning bolt icon circled in blue. The main area is divided into tabs: Fields, Criteria, SQL, and Results. The Results tab is active, displaying a table with the following data:

Unit	Req ID	Line	Acct	Amount
GSUFS	0000011000	1	260005	-15640.00
GSUFS	0000011000	1	260005	15640.00
GSUFS	0000011000	1	751300	-15640.00
GSUFS	0000011000	1	751300	15640.00
GSUFS	0000011001	1	260005	-2245.00
GSUFS	0000011001	1	260005	2245.00
GSUFS	0000011001	1	843200	-2245.00
GSUFS	0000011001	1	843200	2245.00
GSUFS	0000011002	1	260005	-3583.00
GSUFS	0000011002	1	260005	3583.00
GSUFS	0000011002	1	714000	-3583.00
GSUFS	0000011002	1	714000	3583.00
GSUFS	0000011003	7	260005	-7507.65
GSUFS	0000011003	7	260005	7507.65
GSUFS	0000011003	7	751100	-7507.65
GSUFS	0000011003	7	751100	7507.65
GSUFS	0000011004	1	260005	-7448.00
GSUFS	0000011004	1	260005	7448.00
GSUFS	0000011004	1	843200	7448.00

The status bar at the bottom right of the window displays "Rows Fetched = 4068", which is circled in blue.



Results can be run into Excel if desire by the end user. This will allow manipulation of obtained data and reporting via a spreadsheet. Select the Excel icon to do this. (See above)

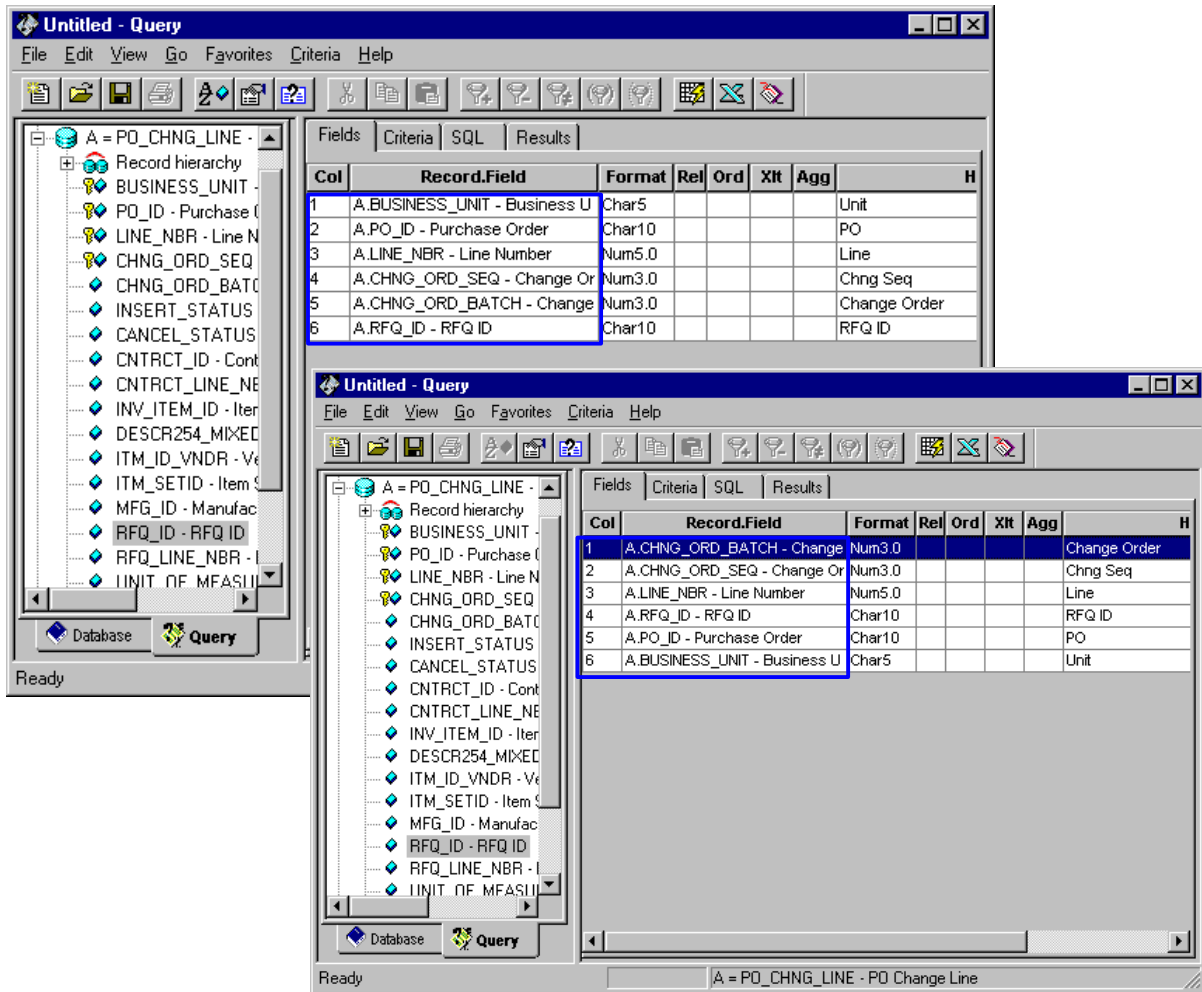


Results can be run into Crystal if desire by the end user. Select the Crystal Reports icon to do this. (See above).

4.5.1. Ordering the Results

A user has the ability to establish order in the query results. This can be done before running a Query. Before starting the analysis the user may want to establish certain order to obtained results. Query order is base on the sequence fields were chosen.

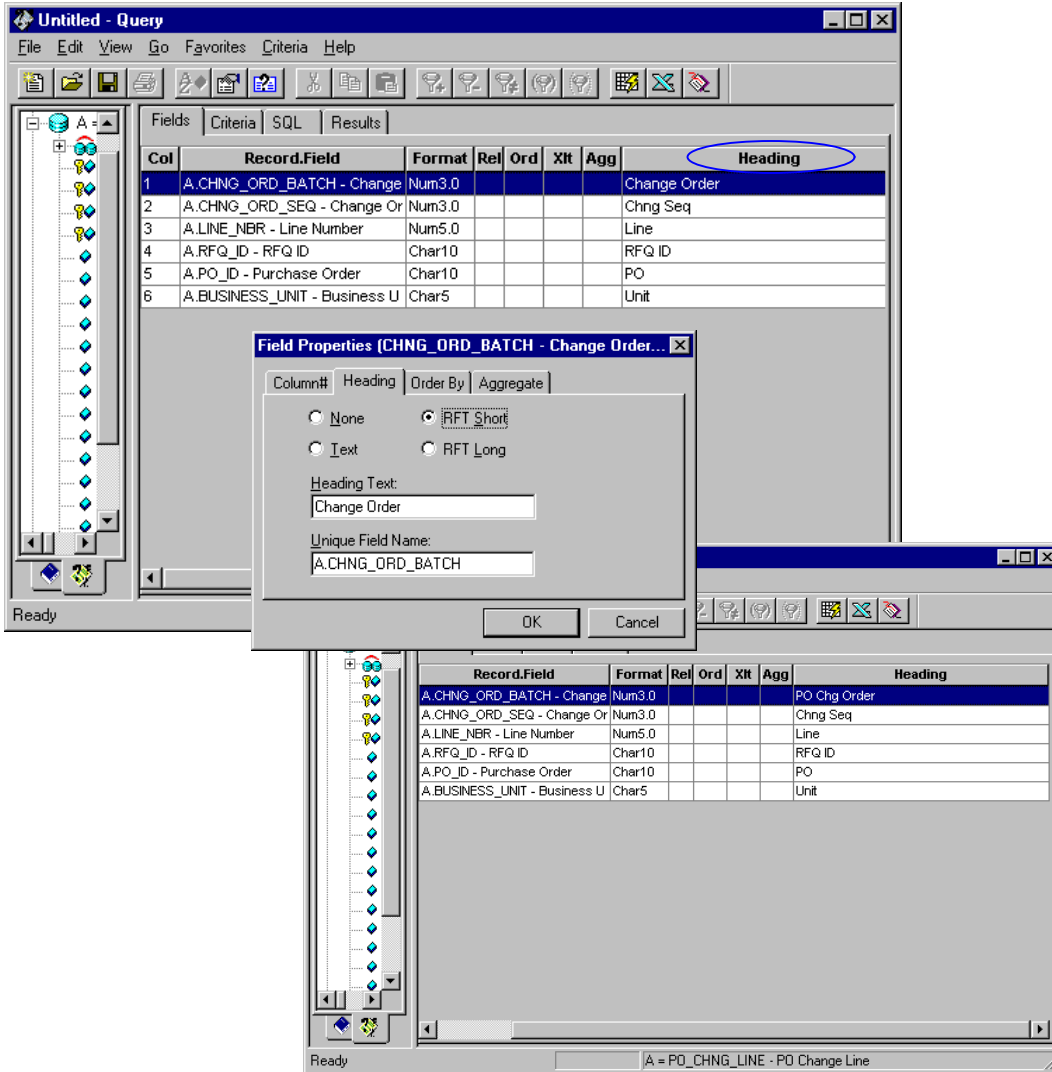
If this order needs to be change it can be done two ways:



- Drag the fields you want re-order to desired locations. The field will be relocated and column numbers will change automatically.
- Highlight column and press the right click button of your mouse. This will display a special menu, select column number and a dialog box will appear on your screen. Change column number to desired one. Click Ok to continue. All columns have been re-ordered.
- Another option to order your results will be to right click in selected row and enter the row number in which you like to see these particular criteria.

4.5.2. Changing the Header Description for Results

On the Fields tab in the designer view, there is a column titled **Heading**. The Heading column refers to the description of the fields that will be displayed in output. When the fields are selected from the component view, the system default description for each will be displayed.



- Highlight the field in the Fields tab, right click, and select **Heading**
- Double-click on the heading text that you wish to change

When the Field Properties dialogue box appears, the default description appears. There are three common options here. The **RFT Short** option is the system's abbreviated description for the field name. The **RFT Long** option is the system's long description for the field name. Most commonly, either the RFT Short or the RFT Long options will be the best choice for the heading description. Click on the radio button to view the descriptions. However, if either option is inappropriate or does not contain enough information, the **Text** option allows the user to enter a free-form description for the field.

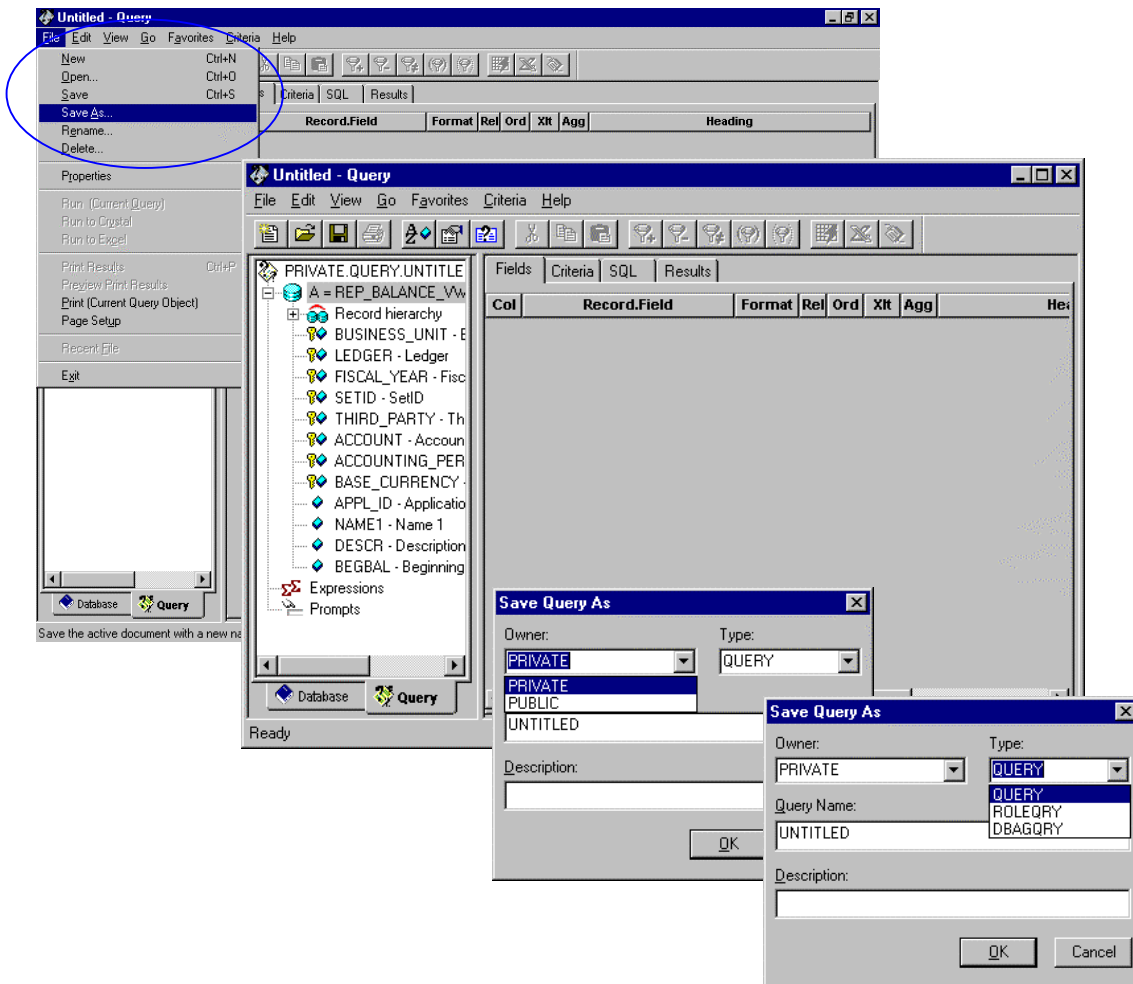
Select the appropriate radio button and, if necessary enter the new heading description and click once on the **OK** button and the new heading will be reflected.

5. Saving the Query

To save a Query, select **File, Save As** or click the diskette icon on the toolbar and enter information in **Owner, Type, Query Name and Description** fields in the popup window. Click **Ok** after completing these fields

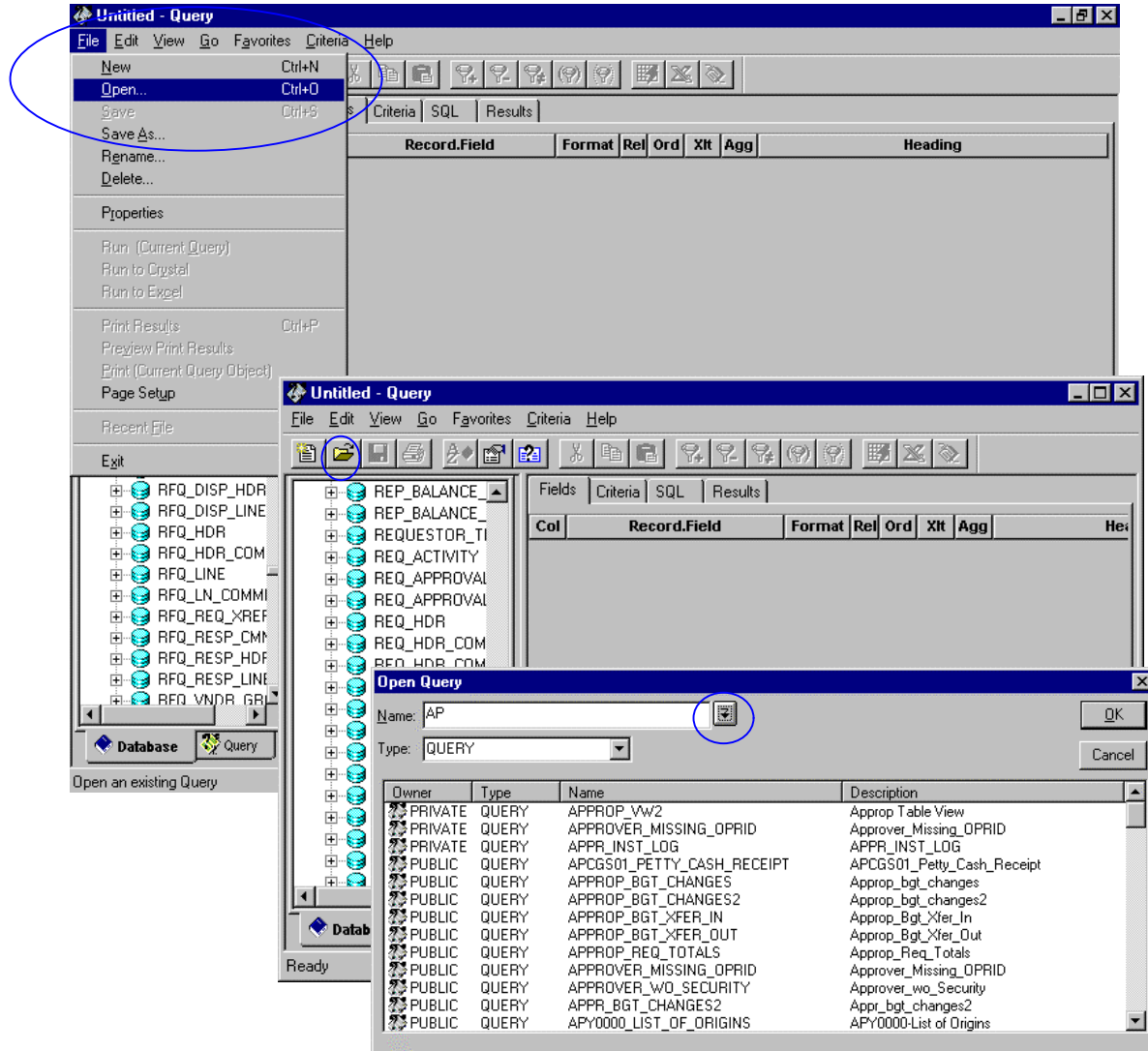
To select query owner, click the drop down button and select between *Public and Private*.

To select query type, click the drop down box and select your option. Select *QUERY* for one that can be used by everybody. Select *ROLEQRY* to specify transactions that need to go into workflow for specific users. Use *DBAGQRY* for special processes in the database.



6. Using an Existing Query

An Existing queries can be one created by the end user and one that is public and available for everybody to use. To use existing queries select **File Open** or select the Open File icon.

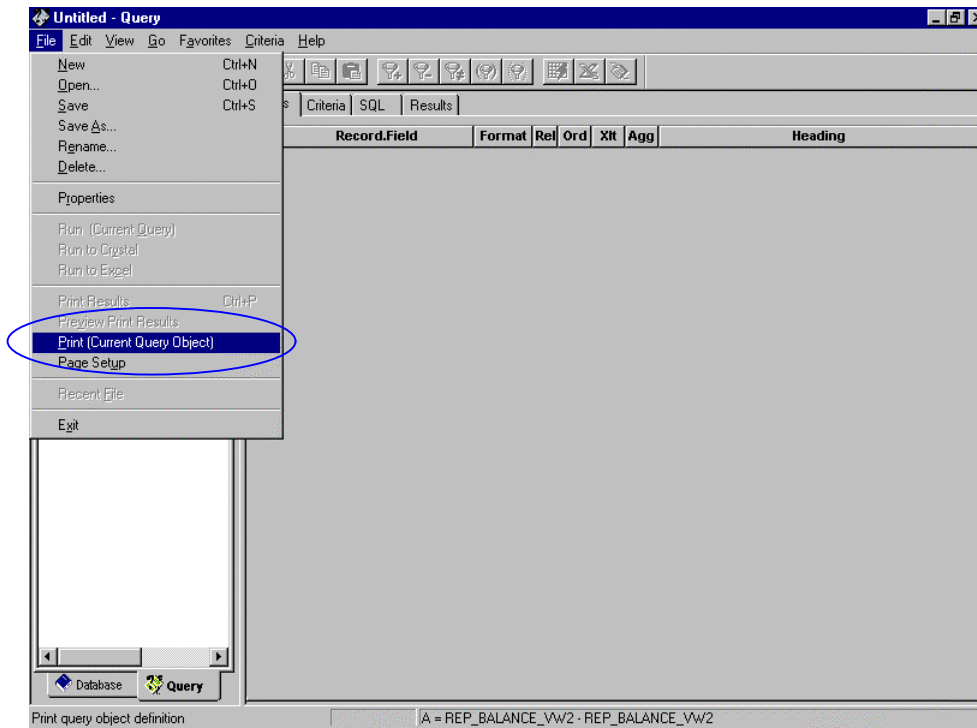


After selecting *Open* a window will popup where the end user can write some search criteria in the name field and then press on the arrow for search results. After getting results select existing query to be used.

If the user knows the exact name of the query it can be written in the name field and then press Ok to continue.

7. Printing a Query

If the user wants a copy of the Query results it can be obtained by selecting File, Print (Current Query Object) at the menu toolbar.



Another option will be running the results to Excel or Crystal and printing at those applications.

8. Eliminating a Query

Follow these steps to eliminate a query. A query file must be open. Select *File, Delete*, and a window will pop up. Enter the name of query to be deleted in the field name. If you need to search for the query enter the first few letters from the name and select the down arrow. This will show all possible options as per established criteria. Select query by highlighting and then click OK to delete.

The screenshot shows the 'Delete Query' dialog box with the following details:

- Name:** PO
- Type:** QUERY
- Table:** A list of queries with columns for Owner, Type, Name, and Description.

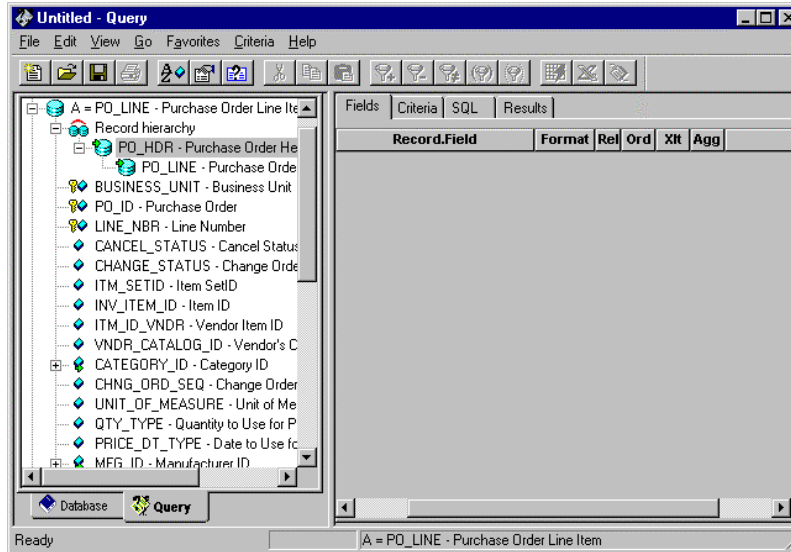
Owner	Type	Name	Description
PRIVATE	QUERY	PO5303	PO5303
PRIVATE	QUERY	PO_HDR	PO_HDR
PRIVATE	QUERY	PO_ITM_STG	
PRIVATE	QUERY	PO_LINE_ACCTG	PO_LINE_ACCTG
PRIVATE	QUERY	PO_LINE_ACCTG1	PO_LINE_ACCTG1
PRIVATE	QUERY	PO_LINE_ACCTG2	PO_LINE_ACCTG2
PRIVATE	QUERY	PO_LINE_ACCTG_SUM	PO_LINE_ACCTG_SUM
PRIVATE	QUERY	PO_LINE_DISTRIB	PO_LINE_DISTRIB
PUBLIC	QUERY	POCG100	POCG100
PUBLIC	QUERY	POCG100_ORI	POCG100-ori
PUBLIC	QUERY	POS_PAY_CONTROL	pos_pay_control
PUBLIC	QUERY	POY1100_REQ_TO_PO_XREF_REPORT	POY1100-Req to PO XREF Report
PUBLIC	QUERY	POY4002A_PO_PRINT	POY4002A-PO Print

9. Joining Tables in a Query

Tables can be joined in a query to extract data from various tables into one single result. There are two basic ways this can be done.

9.1. Hierarchical Record Join

To join table these way, double click the Record Hierarchy key and all related tables will be automatically joined. Select original table and all related will show under.



9.2. Any Record Join

Allows the user to join fields without having to be from related tables. Use the criteria options for this.

