Visual Importer Professional & Enterprise User manual

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1. Introduction

Visual Importer is a business intelligence tool that provides an integrated solution for designing and deploying data warehouses and data marts. It solves complex problem of integration between different data sources and targets. It combines components of both ETL and designs tools into one tool.

2. Requirements

Below is the list of Software that must be installed before installation of Visual Importer:

Software	Version		Notes
Microsoft Windows	98 or higher		
MDAC	2.6 or higher	Part of OS on W2K,	
		XP	
SQL ODBC driver	2000.81.9041.40	Part of OS on W2K,	Only for import data
		XP	into MS Sql Server
Microsoft Jet 4.0	Service pack 5 or		For MS Access
	higher		repository
Oracle Client	7.3.4 or higher	Provided by Oracle	Only for import data
			into Oracle/connect to
			Oracle repository

Working with Oracle:

Oracle client 7.3.4 and MS Ole DB Driver for Oracle to use Oracle repository on Oracle 7 and load data into it

Or

Oracle client 8.1.7 and Oracle Ole DB Driver for Oracle to use Oracle repository on Oracle 7-9 and load data into it

Or

Oracle client 9 and Oracle Ole DB Driver for Oracle to use Oracle repository on Oracle 8-9 and load data into it

Oracle ODBC Driver to load data from Oracle

Note:

Depending on the Requirements you may or may not need to have all components installed

3. Key features

Data import

Data targets:

- Oracle 7-9i database (using OCI API)
- SQL server 7- 2000 (using BCP API)
- ODBC source (using ODBC API)

Data sources:

- Text files
- Any ODBC source

Repository:

- MS Access
- Oracle
- MS Sql Server
- Interbase
- MySQL
- PostgreSQL

This product features: Great performance - hundreds of records per second Comprehensive logging Rejected records file Integrated Expressions builder Filtering Data

Allows the user to perform calculation during the loading process such as splitting fields, concatenations, data formatting, and loading cross/pivot tables.

Oracle

There are two ways of loading available:

- Oracle direct path loading
- Conventional path

MS SQL server

This software uses the same API as Microsoft DTS service.

ODBC

Any ODBC compliant database.

Other features are:

- Easy Repository switching
- Data Preview
- Mapping editor
- Exports
- SQL scripts editor
- Packages editor
- Integrated Scheduler
- Logging
- Lookups
- Email Notifications
- File Operations
- Check Files
- Compare Files
- FTP Downloads/Uploads
- ZIP
- Applications
- PO3 Email Receiver

4. Visual Importer Architecture



5. Demo Data

Text files

Examples provided are using text files in "C:\Program Files\DB Software Laboratory\Demo\Buffer" and "C:\Program Files\DB Software Laboratory\Demo\Text Files" If you want to use another location please amend Directories properties for 'Text files' and "Buffer".

Demo tables

Use SQL Scripts provided to create demo tables for Oracle and MS SQL server. Please adjust connection details before executing these scripts.

Most of the SQL Server Imports use DEMO database. You have to create demo tables within this database first before executing import scripts.

ODBC connections

Setup program creates following ODBC DSN during the installation:

- ODBC_FOXPRO
- ODBC_ACCESS_SOURCE
- ODBC_ACCESS_TARGET
- ODBC_MS
- ODBC_ORACLE
- ODBC_EXCEL

6. Options

To change Visual Importer settings click System menu-> File-> Options. Dialog box will appear.

Options	X
Repository	Execution Interface Email SMTP POP3
*	Repository Connection Name: Default Repository [MS Access] 💌 😭 🕂 🗙
	MS Access
C:\Program Fi	les\DB Software Laboratory\Repository\VImpRepositor
	Reconnect Test Connection
V	Connect to the Repository when VImp starts
	OK Cancel

Repository Connection Options	
Name: Default Benository, IMS Access]	
File:	
C:\Program Files\DB Software Laboratory\Re	pository/VImpF 🔗
User Name:	
Password:	Test Connection
οκ	Cancel

Repository tab defines repository connection. Repository type can be:

- MS Access
- MS SQL Server
- Oracle
- Interbase (Firebird)
- MySql
- PostgreSQL

Note:

Provided Default Repository [MS Access] contains all the SQL scripts required to create Oracle, MS SQL server, Interbase, MySql and PostgreSQL repositories.

Import tab defines settings related to the logging and Packages execution.

Options 🔀
Repository Execution Interface Email SMTP POP3
Log Directory:
Create Rejected records file Write Log
Execute Packages in separate thread
Do not Execute any Package
Execute only Local Packages
OK Cancel

Interface tab defines settings for the log refreshing and records deletion, etc.

Options	×
Repository Execution Interface Email SMTP POP3	
 Open editor once script or package is created Save all scripts and packages on exit Ask Before Delete Refresh log once Package is finished Update Tables List 	
OK Cancel	

Email tab defines settings required to send Emails.

Options 🔀
Repository Execution Interface Email SMTP POP3
_Sender:
Email:
someone@someserver.com
Name:
Visual Importer
Default Recipient:
Name:
Visual Importer Administrator
Send a Test Email
OK Cancel

Ontions
Repository Execution Interface Email SMIT PUP3
Host:
Port Number:
25 1
Server Requires to login
User Name:
Password:
Options X
Options Repository Execution Interface Email SMTP POP3
Options X Repository Execution Interface Email SMTP POP3
Options Repository Execution Interface Email SMTP POP3 Host:
Options Repository Execution Interface Email SMTP POP3 Host:
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Options X Repository Execution Interface Email SMTP POP3 Host:
Options Image: Construction of the second of the secon
Options Image: Construction Interface Email SMTP POP3 Host: Image: Construction Construction Construction Port Number: Image: Construction Construction User Name: Image: Construction Construction Password: Image: Construction Construction
Options Repository Execution Interface Email SMTP POP3 Host:
Options Image: Construction of the second of the secon
Options Image: Construction Interface Email SMTP POP3 Host: Image: Construction Construction Construction Port Number: Image: Construction Construction Illo Image: Construction Construction Password: Image: Construction Construction OK Cancel

7. User Interface

Main window



Objects tree

Visual Importer uses Objects tree to provide the user with an easy access to the main objects.

Below is a list of possible objects with the short descriptions:

-	Directories	Defines path to flat files for loading into the database
r 🔁	SQL Server Connection	Defines connection to load data into
3	ODBC Connection	Defines connection to load data into or from
	Oracle Connection	Defines connection to load data into
2	Import	Defines mapping between Data source and Data target
	Export	Defines format of output server
501	SQL Scripts	Defines SQL statements to perform against target Databases
	Lookups	Provides quick way to edit/view data.
*	Packages	Combines complex Actions together like Ftp downloads File operations, emails, Check files, SQL scripts and Imports/Exports.

8. Connections and Directories

In order to load data from data source into the data target Visual Importer must be able to connect to the both of them.

Possible Data sources are:

- Flat files (Directories)
- ODBC Connections

Data targets:

- Oracle
- MS SQL server
- ODBC Connections

To create a new connection Click System menu-> New-> Connection.



Oracle Connection

Connection	Properties 🛛 🔀
	Name: DEMO Connection [Oracle] Connection Type: Oracle ODBC Administrator Server:
	User Name:
	Password:
	OK Cancel

- In the Name Text Box type in a new name for the connection you are about to create
- Select Oracle from the Connection Type Drop Down List
- Select a TNS Name from the Server Drop Down List
- Fill in Username/Password for the database you wish to connect to
 - a. If you are unsure of these parameters, please contact your Database Administrator for the correct settings.
- Click Test to ensure the details you have provided are correct
- Click OK to close the Connection Properties Window

Microsoft SQL Server Connection

Connection	Properties
	Name: DEMO Connection [Sql Server] Connection Type: MS Sql Server ODBC Administrator Server: [local]
	DEMO Test Connection User Name: sa Password:
	OK Cancel

- In the Name Text Box type in a new name for the connection you are about to create
- Select MS SQL Server from the Connection Type Drop Down List
- Select a Server Name from Server Drop Down List
- Select a Database Name form the Drop Down List
- Fill in Username/Password for the database you wish to connect to
 - a. If you are unsure of these parameters, please contact your Database Administrator for the correct settings.
- Click Test to ensure the details you have provided are correct
- Click OK to close the Connection Properties Window

ODBC Connection

Connection	Properties
	Name: DEMO Connection [ODBC Access Source] Connection Type: ODBC ODBC ODBC Administrator Server:
	User Name: Password:
	OK Cancel

- In the Name Text Box type in a new name for the connection you are about to create
- Select ODBC from the Connection Type Drop Down List
- Select a ODBC DSN Name from Server Drop Down List
- Fill in Username/Password for the database you wish to connect to

a. You may use ODBC admin to create/modify ODBC data sources.

- Click Test to ensure the details you have provided are correct
- Click OK to close the Connection Properties Window

Note:

It is possible to use ODBC connection as a Data Target and Data source.

Directories

Directory Properties	
Name: Text Files	
Directory: C:\Program Files\DB \$	Software Laboratory\Demo\Text Files 📄
Created	Updated
01/01/2001 DB Software Laboratory	01/01/2001 DB Software Laboratory
	OK Cancel

- In the Name Text Box type in a new name for the directory you are about to create
- Fill in Directory path you wish to load data from
- Click OK to close the directory Properties Window

Note:

User may change connection or directory properties at any time by double clicking on it.

9. Import

In order to load data from the data source into the data target user must define data mapping between target table and data source.

Possible data sources are:

- Flat files (delimited and non-delimited).
- ODBC sources.

Import screen is designed to allow user to create, delete, modify, and test data mapping to the target databases.

- To create a new Import click System menu-> New-> Import.
- Fill in Description edit box with the name of an Import you are about to create.
- Select Data Target from the Drop Down List you want to load data into.
- Select Data Source from the Drop Down List you want to load data from.
- Fill in the comment if required.
- Click OK to finish creation of Import.

Import Pr	operties	×
	Name:	
	Orders	
	Data Target:	
	DEMO Connection [ODBC Access Target]: [ODBC_	<u> </u>
	Data Source:	
	Buffer: [C:\Program Files\DB Software Laboratory\[
	Comment:	
Created	Updated	
01/01/200	01/01/2001	
DB Softwa	are Laboratory DB Software Laborat	ory
	ОК	Cancel

Mapping editor screen overview

Double click on any demo Import. Import editor will appear.

Main Tool bar	Target table fields list	Mapping Panel
	/	
VImp Professional		
File New View Tools Help		
		×
Target table: Customers	SQL) 🤣 Rejected Records
No ▼ Field 1 CUSTOMERID 2 COMPANYNAME 3 CONTACTNAME 4 CONTACTNITLE 5 ADDRESS 6 CITY 7 REGION 8 POSTALCODE 9 COUNTRY	Data T VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI VARCI	
😭 🖸 🕂 🗙 ⁄a 🍸 "C:\Pr	ogram Files\DB Software Laboratory\D	emo\Buffer\Customets.ta 🔗
CUSTOMERID CC [CUSTOMERID] [CC 1 1 1 1 15 1 CustomerID Cor 2 ALFI(I Alfr Customers	IMPANYNAME CONTA IMPANYNAME] [CONTA 20 20 8 mpanyName Contact eds Futteritiste Maria A	ACTN/ CONTACT ADDRESS CITY ACTN/ [CONTACT [ADDRESS] [CITY 3 4 5 7 8 Name Contact Title Address City nders Sales Repre Obere Str 57 Berlin
Waiting Connected		
Source tool bar Target Fields	Field Width Source	e fields Source file/Tabl

Main tool bar



- 1. Data Target options
- 2. Loads Import Script From the file
- 3. Saves Import Script to the file
- 4. Saves as
- 5. Saves Import to the Repository
- 6. Refreshes fields list fro the database
- 7. Checks Import for mapping errors
- 8. Data preview
- 9. Allows user to clear field mapping
- 10. Hides mapping panel
- 11. Data Import

Source tool bar



- 1. Data source options
- 2. Refreshes Source data
- 3. Add new column
- 4. Delete last column
- 5. Auto map the source fields to the target fields
- 6. Filter
- 7. Source file name/ table name

Mapping panel

Mapping panel is designed to provide user with all information related to the mapping of one particular field. There are two ways of mapping: direct and through calculations.

Mapping type	Maping Mapped To [NUMBER_F]	— Source Field
Default value	If Error: If Null: Set To Null ■ Reject ■	 Errors Handling
	Maping: Calculated Iif([CHAR_F]=="MM',",[CHAR_F])	Calculation
Date format	If Error: Set To Null Reject	

Alternately you may hide Mapping panel and use grid to perform mapping.

See the picture below:

	🗃 🗠 - 🖬 🗃 📵 🎦 💕 🚰 🔁 🔶													
5	🖅 Target table: Customers 🕙 SQL 🛛 🐉 Template 🔍 Import Log 😵 Rejected Records													
Nc ∇	Field	Data	Туре	Size/Pi	Scale	Pk	Not Null	DB Default	Ma	apping	Mapped To		Calcula	atic
	CUSTOMERID	VARC	CHAR	5	0				Ma	apped To	[CUSTOMER	ID]		
2	2 COMPANYNAME	VARC	CHAR	40	0				Ma	apped To	[COMPANYN	AME]		
	3 CONTACTNAME	VARC	CHAR	- 30	0				Ma	apped To	[CONTACTN	AME]		
4	4 CONTACTTITLE	VARC	CHAR	- 30	0				Ma	apped To	[CONTACTTI	TLE]		
	5 ADDRESS	VARC	CHAR	60	0				Ma	apped To	[ADDRESS]			
6	6 CITY	VARC	CHAR	15	0				Ma	apped To	[CITY]			
	7 REGION	VARC	CHAR	15	0				Ma	apped To	[REGION]			
<														
	-					-			-					_
8	🕄 🕂 🗙 ⁄a 🖻	7 " C	:\Prog	gram File	s\DB S	oftv	vare Labo	oratory\Dem	no/E	Buffer\Custor	mers.ta 🔗			
	CUSTOMERID		СОМ	IPANYN	AME			CONTAC	τN	CONTACT	ADDRESS	CITY		F
	[CUSTOMERID]		[COM	IPANYN	AME]			[CONTAC	TΝ	[CONTACT]	[ADDRESS]	[CITY]	[F
		1					2		3	4	5		6	
	15				20			8		7	8		8	
1	CustomerID		Comp	anyNar	ne			ContactNa	ame	ContactTitle	Address	City		R
2	2 ALFKI Alfreds Futterkiste			Maria And	ers	Sales Repre	Obere Str. 57	Berlin		Γ				

SQL Statements

Visual Importer provides functionality to perform SQL statements before and after data import.

Note:

- In order to Execute several SQL statements user must specify SQL delimiter.
- No select statements allowed.



Template tab

😮 VImp Professional
File New View Tools Help
x
🖀 🗠 - 🖬 🗃 🖨 10 10 🥩 🖻 🏓
🖅 Target table: Customers 🎬 SQL 🤯 Template 🧇 Import Log 🧇 Rejected Records
0049 BatchSize=0
0050 SQL_SEPARATOR=/
0051
0052 Field=CUSTOMERID
0053 Mapping=Mapped To
0054 MappedTo=[CUSTOMERID]
0055 Calculated=
0056 Format=
0057 Default=
0058 IfNull=Ignore
0059 IfError=Set To Null
0060
0061 Field=COMPANYNAME
0062 Mapping=Mapped To
P Orders P Categories P Customers
Waiting Connected

ł	VImp P	rofessional										
Fi	File New View Tools Help											
	×											
	🚰 🗠 - 🖬 🗟 🖨 🖆 🖆 🖆 🍁											
	🖅 Target table: Customers 🅙 SQL 凝 Template 🤏 Import Log 🛞 Rejected Records											
	a 🖪	📑 "C:\Program	m Files\DB Software Lab	oratory/VImp.log''								
	Line No	Туре	Time	Description 🔺								
	1	🖗 Information	25/12/2004 18:00:28	Starting Import								
	2	🥐 Information	25/12/2004 18:00:29	delete from customers								
	3	\mathcal{P}		1								
8	4	🥐 Information	25/12/2004 18:00:29	Source File: C:\Program Files\DB Software Laborato								
	5	👰 Information	25/12/2004 18:00:29	Loaded : 91 Records								
	6	👰 Information	25/12/2004 18:00:29	Records per second : 208.23								
	7	🥐 Information	25/12/2004 18:00:29	Rejected : 0 Records								
	8	🥐 Information	25/12/2004 18:00:29	Filtered : 0 Records								
	9	🥐 Information	25/12/2004 18:00:29	Import is finished								
	10	🥐 Information	25/12/2004 18:00:35	Starting Import								
	11	🥐 Information	25/12/2004 18:00:35	delete from customers								
	12	\mathcal{P}		1								
	13	🥐 Information	25/12/2004 18:00:35	Source File: C:\Program Files\DB Software Laborator								
	P Order:	s [🎦 Categorie	s 💽 Customers									
W	/aiting	Connected										

Log File tab

Rejected Records Tab

👶 VImp Professional	×
File New View Tools Help	
	x
📅 😤 • 🖬 🗃 🕼 🖆 💕 🚰 🔁 🔶	
🗗 Target table: Customers 🖆 SQL 🔯 Template 🧇 Import Log 🥸 Rejected Records	
"C:\Program Files\DB Software Laboratory\Rejected Records.tab"	
0001	
8	
💽 Orders 💽 Categories 💽 Customers	
Waiting Connected	



Note: Records can be also rejected by the Server.

Data Mapping for a Flat File Data Source

To perform data mapping:

• Click Data Target Options button.

18 <u>8</u> - 🖪 27 (1 🗹 🍅 💰 🖸	9 🗐 🏓	
🗗 Target table: 🎦	SQL 🕢 🔬 Template	e 🧇 Import Log) 🥘 Rejected
Nc ⊽ Field	Data Type Size/Pi		apping:

- Dialog box will appear.
- Click Get tables list.
- Select Table you would like to import data into from Drop Down List.
- Click OK.

Data Target Options								
Data Base type:	ODBC 🔽							
Data Source:	ODBC_ACCESS_TARGE	ODBC Administrator						
User Name:								
Password:		Update Tables List						
Table:	Customers	•						
	Show System Tables							
Sql Statements D	elimiter: /	•						
	ОК	Cancel						

The following list of fields should appear:

N	🔐 🗠 • 🖬 🕫 🕼 🖄 📽 🛃 🔶							
C	🖅 Target table: Customers 🎽 SQL 🖓 Template 🧐 🎯 Import Log 🧇 Rejected Rec							
	No 🗸	Field	Data Type	Size/Pi Sca 🔨	-Mapping			
	1	CUSTOMERID	VARCHAR	5	Mapping.			
	2	COMPANYNAME	VARCHAR	40				
	3	CONTACTNAME	VARCHAR	30				
	4	CONTACTTITLE	VARCHAR	30				
	5	ADDRESS	VARCHAR	60				
	6	CITY	VARCHAR	15 📃	-If Error:			
	7	REGION	VARCHAR	15	Set To Null			
	8	POSTALCODE	VARCHAR	10				

Click Data Source Option Button.

😭 🕑 🕂 🗙 🌾

Dialog box will Appear. Set Delimiter and Quota to appropriate values.

Data Source Options	
Text	
Format: C Fixed C Delimited	Delimiter: TAB 💌 Text Qualifier: "
Cource File is a Cross	: Table:
First Field:	
Blocks:	
Block Length:	1 *
Lines to Skip:	
Header:	
Footer:	
	OK Cancel

Click OK.

Click and select the file you want to import.

8 (😭 😰 🕂 🗙 🚈 🍸 ''C:\Program Files\DB Software Laboratory\Demo\Buffer\Customers.ta 🔄							
	[F1]	[F2]	[F3]	[F4]	[F5]	[F6]		
	1	2	3	4	5			
	15	20	8	7	8			
1	CustomerID	CompanyName	ContactName	ContactTitle	Address	City		
2	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Repre	Obere Str. 57	Berlin		
3	ANATR	Ana Trujillo Emparedados y helado	Ana Trujillo	Owner	Avda, de la C	Mexic		
	ANTON	A	A	0	M.C.J 7			

Select First field in the Data Target fields list and drag and drop it above [F1] field.

🗐 Target table	: Customer:	s 🎦 S	SQL 🏄 :	Script	٧	Imp	ort Log
No ⊽ Field			D	ata Typ	pe 🔽	^	-ki
1 CUSTON	IERID		V	ARCHA	١R	1	
2 COMPAN	VYNAME -		V	ARCH4	۱R		INOC
3 CONTAC	TNAME		V	ARCH4	١R		
4 CONTAC	TITLE		V	ARCHA	۱R		
	<u>م</u>		V	ARCH/	\R		
				l			
CUSTOM	ERID						
[F1]	[F2]		[F3]				
	1	2					
10		8	8				
1 CustomerIE) Com	panyNar	ContactNa				
2 ALFKI	Alfre	ds Futter	Maria And				
3 ANATR	Δna	Truiillo E	Ana Truiille				

You may change field mapping by using mapping panel at any time.

Maping		
Mapped to	▼ [F1]	•

Auto mapping

If the Data Source and Data Target have got the same fields' names you may use Auto map feature.

Click 🚈 , Click yes.

Visual Importer Professional & Enterprise User Manual

P	🖸 🕂 🗙 ⁄a 🝸 "C	:\Program Files\DB Software Labo	ratory\Demo\{	Buffer\Custor	mers.ta 🖄			
	CUSTOMERID COMPANYNAME CONTACTN/ CONTACT ADDRESS							
	[CUSTOMERID]	[COMPANYNAME]	[CONTACTN/	[CONTACT]	[ADDRESS]			
	1	2	3	4	5			
	15	20	8	7	8			
1	CustomerID	CompanyName	ContactName	ContactTitle	Address			
2	ALFKI	Alfreds Futterkiste	Maria Anders	Sales Repre	Obere Str. 57			
3	ANATR	Ana Trujillo Emparedados y helado	Ana Trujillo	Owner	Avda, de la C			

Now we are ready to import data. Let's check script first.

Click to check script.

Error	\mathbf{X}
8	Target field: DATE_F must have format assigned
	ОК

We have to correct the error first.

Maping Mapped To [DATE_F]	Date format is missing
MM/DD/CCYY	
Set To Null ▼ If Null:	

Click 💌 to load data into the database

Importing Data
Source: C:\Program Files\DB Software Laboratory\Demo\Buffer\Total_Sales.csv Target: Total_Sales Started: 30/03/2004 19:37:52 Time: 00:00:09 Time Left:00:00:02 Rec/Sec: 280.65 Records: 2600 Errors: 0
79%
Cancel

Once loading is finished you may check Log file or Rejected records file.

Data Mapping for an ODBC Data Source

Data mapping for ODBC is very similar to the flat file mapping.

Click Data Source Option Button.



Dialog box will appear.

Select ODBC DSN from the Drop Down List or alternatively create a new ODBC DSN or modify the old one by using ODBC administrator.

Fill in User name and Password if required.

Click Get Tables List.

Select table name to load data from the Drop Down List. Click OK.

Data Source	Options	
ODBC		
Data Source:	ODBC_ACCESS_SOURCE	-
User Name:		
Password:		ODBC Administrator
	⊂Source is:	
Table:	Orders ▼ Show System Tables	▼ Update Tables List
	OK	Cancel

ODBC Manager

🐠 ODBC Data Source Admini	strator 🛛 💽 🔀
User DSN System DSN File DS	N Drivers Tracing Connection Pooling About
<u>S</u> ystem Data Sources:	
Name ODBC_ACCESS ODBC_FOXPRO ODBC_MS ODBC_ORACLE ODBC_SIEBEL Visual FoxPro Database Visual FoxPro Tables Xtreme Sample Database 2003	Driver Add Microsoft Access Driver (*.mdb) <u>Remove</u> Driver para o Microsoft Visual F <u>Remove</u> SQL Server <u>Configure</u> Oracle in OraHome90 <u>Configure</u> SQL Server <u>Configure</u> Microsoft Visual FoxPro Driver Microsoft Access Driver (*.mdb)
An ODBC System dat the indicated data pro	a source stores information about how to connect to ovider. A System data source is visible to all users
OK	Cancel Apply Help
ODBC Microsoft Access Setur	. ? 🛛

UDBC MICROSOTT ACCESS SETUP	L 🔼
Data Source Name: ODBC_ACCESS	OK
Description:	Cancel
Database: C:\DemoData\test.mdb	<u>H</u> elp
Select Create Repair Compact	<u>A</u> dvanced
System Database	
• None	
C Da <u>t</u> abase:	
System Database	
	<u>O</u> ptions>>

How to clear mapping

Click 🗹.

Click on field you would like to clear.

6 [🖗 🕂	Х	包)	Y "۱	C:\Program Fil	es\	DB Software Labo	ora
							(
	lensi	UMER	(ID]			NAP	<u>4E]</u> 2	Щ
		1	5				20	+
1	Custor	erID	-		CompanyNa	me		С
2	ALFKI				Alfreds Futte	rkis	te	Ν
ß	🖏 🕂	×	* = '	Y "	Source Table:	Ord	lers''	
		L		OF	RDERNO		ORDERDATE	
	[CUST	OMER	RID]	[OF	RDERNO]		[ORDERDATE]	
				1		2		3
		12			12		12	
1	Custor	herID		Orc	lerNo		OrderDate	
2	ALFKI			1			12/01/2000	
3	ALFKI			2			13/01/2000	
4	ALFKI			3			14/01/2000	
5	ALFKI			4			15/01/2000	
Loading data from the Cross tables

Let us say we have table like the following in the database:

No	Field	Data Type
1	CUSTOMERID	CHAR
2	YEAR	DECIMAL
3	MONTH	DECIMAL
4	PRODUCTID	DECIMAL
5	AMOUNT	DECIMAL

And a text file like the one below:

Year CustomerID ProductID Month_1 Qty_1 ... Month_12 Qty_12

51	Target table: [[DEMO].[dbo].[t	:otal_sales]	省 sql 🥻	👌 Template 🛛	🧇 Import Lo)g 🛛 🎯
No 🗸	7 Field			Data Type	Size/F 🔨 📃	Manning:	
	1 CUSTOMER	RID		CHAR	5	Mapping. Mapped Te	
	2 YEAR			DECIMAL	20	Mapped 10	
	3 MONTH			DECIMAL	20		
	4 PRODUCTI	D		DECIMAL	20		
	5 AMOUNT			DECIMAL	16		
					Г	If Error:	
						Set To Null	-
20							
	9						
200 F	en e	ter and line up				17.5	10.1
		A A LC: M	rogram Files	NDB Software	Laboratory\D	emo\Text Files	ASales.c
	YEAR	CUSTOMER	PRODUCT	AMOUNT			
	[YEAR]	[CUSTOMER	[PRODUCT	[MONTH_1]	[QTY_1]	[MONTH_2]	[QTY_2]
	1	2	3	4	5	6	
	8	8	7	8	8	8	7
1	Year	CustomerID	ProductID	Month_1	Qty_1	Month_2	Qty_2
2	2002	ALFKI	1	1	2	3	4
3	2002	ALFKI	2	2123.2	2314.9	800.21	3390.12

Click Data Source Button and check 'Source file is a Cross table' check box and set First Field to 4, Blocks to 12 and Block length to 2

Data Source Options	
Text	
Format: C Fixed	Delimiter:
O Delimited	Text Qualifier:
Source File is a Cross	s Table:
First Field:	4 1
Blocks:	⁶ *
Block Length:	2 1/4
Lines to Skip:	
Header:	
Footer:	
	OK Cancel

Ļ												
	😭 😰 🕂 🗙 🚈 🍸 🗥 C:\Program Files\DB Software Laboratory\Demo\Text Files\Sales.cs 🔗											
	YEAR CUSTOMER PRODUCT AMOUNT											
		[YEAR]	[CUSTOMER	(PRODUCT	[MONTH_1]	[QTY_1]	[MONTH_2]	[QTY_2]	[MO			
		1	2	3	4 {1,1}	5 {1,2}	6 {2,1}	7 {2,2}				
		8	8	7	8	8	8	7				
	1	Year	CustomerID	ProductID	Month_1	Qty_1	Month_2	Qty_2	Mor			
	2	2002	ALFKI	1	1	2	3	4	5			
	3	2002	ALFKI	2	2123.2	2314.9	800.21	3390.12	121			
	4	2002	ALFKI	3	2123.2	2314.9	800.21	3390.12	121			

Finally we are ready to import data

Click 🔹 to load data into the database

Performing Calculations

Visual Importer is capable of performing calculations during the import.

To perform a simple calculation set mapping type to calculation and type constant or formula into calculation edit box.

Calculated 🗨	
Insert()	
DD/MM/CCYY	-



For character type fields' type '12' or "12"

Multiplying fields [INTEGER_F]*[FLOAT_F]

Concatenation "[INTEGER_F]"+ " kilos"

More complicated examples Iif([FLOAT_F]>[INTEGER_F],1,2) Trim('[CHAR_F]')

You may also use Expression Editor

Expression Editor		X							
Expression: GetSystemVariable('BLOCKNUMBER')									
- + * / ** % ! && ^^ < > Description: AddCharLeft (Char, String, Coll	⊨=[!=k=Þ=[() ount):String								
Source Fieds:	Types:	Functions:							
[YEAR] [CUSTOMERID] [PRODUCTID] [MONTH_1] [QTY_1] [MONTH_2] [QTY_2] [MONTH_3] [QTY_3] [MONTH_4] [QTY_4] [MONTH_5] [QTY_5] [MONTH_6] [QTY_6]	String Functions Numeric Functions Date Functions Conversion Functions Miscellaneous Functions	AddCharLeft AddCharRight Delete DeleteSpaces Insert LeftString LowerCase MakeString ProperCase Replace RightString SubString Trim TrimLeft TrimRight							
		OK Cancel							

Filtering Records

•

User may filter records using the following example: RECORDTYPE=1 Customer information RECORDTYPE=2 Invoices

Press $\boxed{}$ and type

Expression Editor			×
Expression: [RECORDTYPE] == 1 - + * / ** % ! && ^^ < >	==li=k=b=[(])		
Description:			
Source Fieds:	Tupor	Eurotione	
Source Fields: [RECORDTYPE] [CUSTOMERID] [COMPANYNAME] [CONTACTNAME] [CONTACTTITLE] [ADDRESS] [CITY] [REGION] [POSTALCODE] [COUNTRY] [PHONE] [FAX] [F12]	String Functions Numeric Functions Date Functions Conversion Functions Miscellaneous Functions	AddCharLeft AddCharRight Delete DeleteSpaces Insert LeftString LowerCase MakeString ProperCase Replace RightString SubString Trim TrimLeft TrimRight	
		OK Cancel	

If you want to use multiple criteria use following example

([RECORDTYPE]==1) || ([RECORDTYPE]==56)

Where || - OR && - AND ! - NOT

How to Update/Delete Records

In order to Update/Delete records you must specify update key.



For the example provided below, Visual Import will execute the following SQL (Update key is CustomerId,OrderNo)

Add New And Update Old Records

Select count(*) from [DEMO].[dbo].[orders] where CustomerId=? And OrderNo=?

If any records found Visual Importer will update them by executing

```
Update [DEMO].[dbo].[orders]
set orderdate=?,
amount=?
where customerid=? And OrderNo=?
```

If no records found Visual Importer will add new records

Update Records

Update [DEMO].[dbo].[orders] set OrderDate=?, Amount=? where CustomerId=? And OrderNo=?

Delete Records

Delete from [DEMO].[dbo].[orders] Where CustomerId=? And OrderNo=?



Using Database Specific functions.

Mapping type SQL function allows using Database specific functions like sequences during import.

Template Import Log Rejected Records ype Size/F ER 20 7 Orderseq.nextval	4	
ype Size/F ▲ ER 20 ER 20 FR 16 ■	Template 🛛 🧇	Import Log 🧇 Rejected Records 📄
	ype Size/F ER 20 F ER 16	Mapping: SQL Function 💌 orderseq.nextval

Note:

This option works only for ODBC connection or Oracle conventional path loading

MS SQL Server specific parameters

🔽 Keep Identity	🔽 Fire Triggers	Batch Size:
Check Constraints	🔲 Keep Nulls	

Check constraints

Ensure that any constraints on the destination table are checked during the bulk copy operation. By default, constraints are ignored.

Keep identity

Specify that there are values in the data file for an identity column.

Keep NULLS

Specify that any columns containing a null value should be retained as null values, even if a default value was specified for that column in the destination table.

Batch size

Specify the number of rows in a batch. The default is the entire data file.

The following values for the **Batch size** property have these effects:

If you set **Batch size** to zero, the data is loaded in a single batch. The first row that fails will cause the entire load to be cancelled, and the step fails.

If you set **Batch size** to one, the data is loaded a row at a time. Each row that fails is counted as one row failure. Previously loaded rows are committed.

If you set **Batch size** to a value greater than one, the data is loaded one batch at a time. Any row that fails in a batch fails that entire batch; loading stops and the step fails. Rows in previously loaded batches are either committed or, if the step has joined the package transaction, provisionally retained in the transaction, subject to later commitment or rollback.

Oracle specific parameters

🔲 Use direct path loading

Checking the box above allows user to specify Conventional and Direct path loading.

10. Export

- To create a new Export Click System menu-> New-> Export.
- Dialog box will appear
- Fill in Name edit box with the name of Export you are about to create
- Select Connection from the Drop Down List you want to export data from.
- Select a Target Directory you want to export data into.
- Fill in comment if required
- Type SQL
- Specify delimiter
- Specify Text Qualifier
- Click OK to finish creation of Export Script.

Export Op	otions								
	Name:								
	Customers								
	Data Target:								
	DEMO Connection [ODBC Access Source]: [ODB 💌								
	Target Directory:								
	Buffer: [C:\Program Files\DB Software Laboratory' 💌								
	Comment:								
Delimite	er: TAB 👻 Text Qualifier: " 💌 🗸 Create Header								
COUL Se	elect * from customers								
Created	Updated								
01/01/200	01/01/2001								
DB Softwa	re Laboratory DB Software Laboratory								
	OK Cancel								

11. SQL Scripts

Once data is loaded into the database user has to perform various tasks like transformations, validations or calculations. User may perform any SQL command allowed by the target database. SQL commands must be separated by a separator. SQL Scripts Screen is designed to provide such functionality for a user.

- To create a new SQL Script Click System menu-> New-> SQL Script
- Dialog box will appear
- Fill in Description edit box with the name of SQL Script you are about to create
- Select Connection from the Drop Down List you want to run the script against.
- Select a Separator from the Drop Down List or fill it in.
- Fill in comment if required
- Click OK to finish creation of SQL Script

Sql Script	Properties		×						
sqL	Name: Create Repository Objects [O	Iracle]							
	Data Target:								
~	•								
	Sql Statements Delimiter:								
	/								
	Comment:								
Created		Updated							
01/01/200	1	01/01/2001							
DB Softwa	re Laboratory	DB Software Laboratory							
		OK Can	cel						

To edit script double click on any previously created SQL Scripts.



SQL Scripts Tool Bar

			9	<u>à</u>	<u>ج</u> د	ß	Pa -	Ð,	鐏	*	₩.,	A B	3	8	٧
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

- 1. Open the SQL script from the disk
- 2. Save the SQL script to the disk
- 3. Save the SQL Script to the repository
- 4. Print the SQL script
- 5. Preview
- 6. Cut
- 7. Copy
- 8. Paste
- 9. Undo
- 10. Search
- 11. Repeat Search
- 12. Find Previous
- 13. Replace
- 14. Execute SQL Script
- 15. Stop execution when any error happens
- 16. Show/hide log

12. Packages

Packages Screen provides functionality to combine different Actions together.

Possible Actions are:

- Imports
- Exports
- SQL Scripts
- Packages
- File Checks
- File operations
- Ftp Downloads/Uploads
- Emails
- Applications
- ZIPs
- POP3 Email Receivers
- To create a new Package Click System menu-> New-> Package.
- Dialog box will appear.
- Fill in Description edit box with the name of the Package you are about to create.
- Fill in comment if required.
- Click OK to finish creation of the Package.

Package Properties	
Name: 2 Data Export from	Access Database
Comment:	
Created	Updated
01/01/2001 DB Software Laboratory	01/01/2001 DB Software Laboratory
	OK Cancel

Package screen overview



Objects Tree Drag and Drop Actions from the left to the right What to do if error happened

What to do next after success



Note:

It is impossible to execute package without starting point (Action in blue box on the picture).

Package Tool bar

	ß	×	٠	₽ ₽	\$	8	à	ß	(→	+	P		⁵⁰¹ () 🛃		1 🔒	j 🔤	<u>8</u>		, 킻	
1	2	3	4	5	6	7	8	9	10	11	12	13 1	14 15	16	17	18	19	20	21	22	23
	1	C		.1 .	n	•,															
	1.	Sav	e to	the .	кер	OS1to	ory														
	2.	Clea	ar al	1	. 1		(`													
	3 .	Del	ete s	elec	tea	Acti	on(s	5)													
	4. 5	Exe	cute		1																
	Э. С	Ali	gn v	ertic	cal	1															
	0. 7	All	gn H	oriz	onta	1															
	/. 0	Prin	ll + Dm																		
	ð. 0	Prin	IL Pro	evie	W																
	9. 10	Sele	sci Succ	2000																	
	10.	On	Succ Erro	r																	
	11. 12		1 Im	nort																	
	12.	Add	i IIIIj i Evi	port																	
	13. 14	Δde	1 CAJ	J sc	rint																
	15	Add	i DQ i Pac	rkao	e na																
	16	Add	l Fild	e ch	eck																
	17.	Add	l File	e co	mna	re															
	18.	Add	1 File	e on	erati	on															
	19.	Add	1 Ap	plic	atior	1															
	20.	Add	l Em	nail		-															
	21.	Add	l Ftp) Do	wnlo	oad															
	22.	Add	l ZII	P op	erati	on															
	23.	Add	l PO	$P3^{r}$	Emai	il Re	eceiv	ver													

Import Action

To create a new Import Action Drag and Drop it from the Object tree. You may change type of an Action at any time.

Action Pr	Properties	
Action Pr	Properties Type: On Success Execute: Import [1] Not Defined Name: On Error Execute: Categories [2] Customers Data Target: [2] Customers DEMO Connection (DDBC Access Target): [0DBC_ACCESS_TARGET] Data Source: [3] Buffer: [C:\Program Files\DB Software Laboratory\Demo\Buffer] Comment: [3] Files are loaded from the path specified within directory properties. File(s) To Load: [C:\Program Files\DB Software Laboratory\Demo\Buffer\Categories.csv Specify mask to load several files.	
	ок (Cancel

Export Action

Action Pr	operties		
	Туре:	On Success Execute:	
	Export 👻	[-1]-Not Defined	•
J	Name:	On Error Execute:	
	Employees	[3]-Orders	▼
	Data Source:		
	DEMO Connection [ODBC Access Source]: [0	DBC_ACCESS_SOURCE]	
	Directory to save data into:		
	Buffer: [C:\Program Files\DB Software Labora	tory\Demo\Buffer]	
	Comment:		
	-		
	File to Export data into:	I.D. ((. I.C	
	C:\Program Files\DB Software Laboratory\D	emo\Burrer\Employees.csv*	
	Files are saved to the path specified within dire	ectory properties.	
			OK Cancel

SQL Script Action

Action Pr	operties	
sqi	Type: On Sql Script 💽 [-1	Success Execute:
	Name: On	Error Execute:
	Create Demo Objects [Sql Server]	-Orders 💌
	Connection:	
	DEMO Connection [Sql Server]: [(local)]	
		OK Cancel

Package Action

Note: Recursion is not allowed

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Action Pr	operties	
	Туре:	On Success Execute:
	Package 🔻	[3]-Failure
J	Name:	On Error Execute:
	3 Receive Data from the mail server	[1]-4 Data Import into Access Database 👻
	Comment:	
		OK Cancel

Check file Action

Checks if a file/files exists on the disk.

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Action Pr	operties	×
? \$2	Type: Check File • Name: Check	On Success Execute: [-1]-Not Defined On Error Execute: [-1]-Not Defined
	Comment:	
	File(s) To Check: [*C:\Program Files\DB Software Laboratory\E Specify mask to check several files.	temo\Buffer\Categories.csv''
		OK Cancel

Application Action

Action Pr	operties			×
	Туре:	On Success Execute:		- -
	Application	[-1]-Not Defined	•	
J	Name:	On Error Execute:		
	Launch Application	[-1]-Not Defined	-	
	Comment:]
	Options: C Do not wait Wait for Application to finish Wait for 1 Min]
	Application to run: ["C:\Program Files\DB Software Laboratory\D	emo\Buffer\copy.bat''	4	7
				_
			ОК	Cancel

File Operation Action

Action Pr	operties	
	Type: File Operation 💌 Name: Clear Directory	On Success Execute: [-1]-Not Defined On Error Execute: [0]-Categories
	Comment:	
	Operation Type	
	 Copy File(s) Move File(s) Rename File Create Directory Delete File(s) 	
	Specify mask to delete several files. File(s) to Delete: C:\Program Files\DB Software Laboratory\De	mo\Buffer*.*
		OK Cancel

Email Action

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Action Pr	operties	
	Туре:	On Success Execute:
<u> </u>	Email 💌	[-1]-Not Defined
J	Name:	On Error Execute:
	Success	[-1]-Not Defined
	Comment:	
	To:	
	someone@someserver.com	Attach Log File
	Subject:	
	Package "1 Demo Package" Succeed	
	Message:	
	Attachments:	
		<u></u>
		OK Cancel

Ftp Action

Ftp Action downloads all files from a specified directory on the ftp server

Action Pr	operties	×
	Type:On Success Execute:Ftp[-1]-Not DefinedName:On Error Execute:Unknown[-1]-Not Defined	
	Comment:	
	Options: Options: Upload	
	Server: ftp.jsomeserver.com Port: 21 User Name: root Password: ****	
	Remote Directory: pub Connect Local Directory: C:\Program Files\DB Software Laboratory\Demo\Buffer C	
	OK Cancel	

Compare files

Action Pro	operties	×
	Type: On Success Execute: Compare Files [-1]-Not Defined Name: On Error Execute: Unknown [-1]-Not Defined	
	Comment:	
	Use Creation Date Execution is successful when files have same MD5 or Creation Date of file 1 is more or equals to file 2 File 1:	
	"C:\Program Files\DB Software Laboratory\Demo\Buffer\Categories.csv" (File 2: "C:\Program Files\DB Software Laboratory\Demo\Buffer\Employees.csv" (C:\Program Files\Demo\Buffer\Employees.csv" (C:\Program Files\Demo\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer\Buffer	
	OK Canc	el

ZIP

Action Pr	operties		×
	Туре:	On Success Execute:	_
92		[-1]-Not Defined	•
J	Name:	On Error Execute:	
	Decompress Attachment	[-1]-Not Defined	-
	Comment: Options: Compress Compress Decompres		
	C:\Program Files\DB Software Laboratory\De	mo\Buffer\Export.zip	<u> </u>
	Target Directory:		
C:\Program Files\DB Software Laboratory\Demo\Buffer			<u> </u>
		ОК	Cancel

POP3 Email Receiver

Action Pro	operties	
	Type: On Success Execute: POP3 Email Receiver [2]-2 Data Export from Access Databas Name: On Error Execute: Receive data we have just sent [1]-Decompress Attachment	
	Comment: Probaly will fail because we have not defined POP3 properties or because server has not received email yet	
	Once Message is downloaded from the server it is deleted Action will fail if attachment already exists on the disk Directory to extract attachments to: C:\Program Files\DB Software Laboratory\Demo\Buffer	
	ОК Са	ancel

13. Scheduler

Once Package is created Scheduler allows user to execute it on a regular basis. Package may be executed once, daily, weekly, or monthly. User may also specify day of the week or month when to execute the Package.



Schedule Options			
Task Schedule			
Run: 2 Data Export from Ac	ccess Database 💌		
Comment:			
I Enabled (Schedul	ed task runs at specified time)		
Created	Updated		
01/01/2001	01/01/2001		
DB Software Laboratory	DB Software Laboratory		
	OK Cancel		

Schedule (Options 🛛 🔀
Task Scł	nedule
Schedule ta	ask: Start time:
Once	✓ 12:35:36
[Schedule]	task once:
D	
Hunion:	
	OK Cancel

Advanced Schedule Options allows you to define execution boundaries.

Advanced Schedule Options	×
Start Date: 26/12/2004 ▼	
End Date: 77	
Repeat Task Every: 1 % Minute Starting At: 00:00:00 Until: 12:33:37	
OK	

Schedule Options
Task Schedule
Cohodulo taok: Start lime:
Daily V 12:35:36 Advanced
Every 1 Day(s)
OK Cancel

User may specify day of the week when to execute the batch. User must specify at least one day of the week.

Sche	dule Options		
Task	Schedule		
Sche Wee TSch	idule task: kly nedule task Wee sry 1 Tuesday Friday	Start time: 12:35:36 kly: Week(s) on Wednesday Saturday	 Advanced Monday Thursday Sunday
			OK Cancel

Schedule Options
Task Schedule
Schedule task: Start time:
Monthly 🚽 12:35:36 🐳 Advanced
Schedule task monthly: Day 1 1 of the month(s) The First Monday
Select Months
OK Cancel

User may specify month when to execute the batch. User must specify at least one month.

Select Months			
Please select the months you would like the task to run			
🔽 January	🔽 July		
🔽 February	🔽 August		
🔽 March	September		
🔽 April	✓ October		
🔽 May	Vovember		
🔽 June	December		
	ОК		

14. Execution Monitor

Once Package is running or complete Execution Monitor screen allows checking status or troubleshooting if any error happens.

Package may have four different statuses:

- Executing
- Submitted
- Failed
- Finished

Log screen consists of two panels. Top panel shows overall status of the Package.



Double click on the top panel to see the Package log.

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👌 Package Log 🔲 🗖 🔀			
<i>4</i>			
Line No	Туре	Time	Description 🔼
1	👰 Information	01/01/2001 13:27:50	Log: C:\Program Files\DB Software Laboratory\Logs\Pac
2	👰 Information	01/01/2001 13:24:38	Preparing to execute 2 Email Data
3	👰 Information	01/01/2001 13:24:38	Package Started
4	👰 Information	01/01/2001 13:24:39	Executing Zip: Zip Files
5	👰 Information	01/01/2001 13:24:39	Zip File : C:\Program Files\DB Software Laboratory\Demo
6	🥐 Information	01/01/2001 13:24:39	Found: 7 File(s) to Compress
7	🥐 Information	01/01/2001 13:24:39	Path: C:\Program Files\DB Software Laboratory\Demo\Bt
8	🥐 Information	01/01/2001 13:24:39	Mask: *.*
9	🥐 Information	01/01/2001 13:24:39	Compressing File: Categories.csv
10	🥐 Information	01/01/2001 13:24:39	Compressing File: Customers.tab
11	🥐 Information	01/01/2001 13:24:39	Compressing File: Employees.csv
10 <	Information	017017000110-04-00	Comprossing File: Orders ou
			ОК

Bottom panel shows status of individual items within the Package. Double click on Bottom panel to check item log.

🕹 Log 📃 🗖 🔀			
Log F	Rejected Record	ts	
<i>a</i> d			
Line No	Туре	Time	Description 🔼
1	👰 Informat	01/01/2001 13:29:52	Log: C:\Program Files\DB Software Laboratory\Logs\Imp_
2	👰 Informat	01/01/2001 13:24:56	Starting Import
3	👰 Informat	01/01/2001 13:24:56	Source File: C:\Program Files\DB Software Laboratory\Dei
4	👰 Informat	01/01/2001 13:24:56	Loaded : 8 Records
5	👰 Informat	01/01/2001 13:24:56	Records per second : 250
6	👰 Informat	01/01/2001 13:24:56	Rejected : 0 Records
7	👰 Informat	01/01/2001 13:24:56	Filtered : 0 Records
Q	 Informat 	0170172001 13:24:56	Import is finished
		1111	
			ОК

Tool bar



- 1. Shows Log dialog
- 2. Refreshes the screen
- 3. Deletes the record
- 4. Find Record
- 5. Prints
- 6. Previews Grid
- 7. Delete all records from the log
- 8. Show/Hides bottom panel
- 9. Stops Execution
- 10. Refresh log every minute

Stopping execution

User can stop execution at any time by pressing \square .

Note for stopping SQL scripts

SQL script stops once execution of current SQL statement is finished. It could take some time to do.

15. SQL

SQL Screen is a tool to run a free hand SQL or SQL scripts against the target databases.



SQL Toolbar

- ا 😒 😰
- 1 2 3
 - 1. Show/hide SQL Statement
 - 2. Show/hide connection panel
 - 3. Show/hide log panel
Side toolbar



- 1. Previous SQL Statement
- 2. Next SQL Statement
- 3. Select SQL Statement to execute

Sql Execution History		×
select * from Categories		
select * from Customers		
select * from Employees		>
	OK Cancel]

16. Import Functions

String Functions

Trim Trim(String):string

Trims leading and trailing spaces from a string.

TrimLeft TrimLeft(String):string

Trims leading spaces from a string.

TrimRight TrimRight(String):string

Trims trailing spaces from a string.

UpperCase UpperCase(String):string

UpperCase returns a string with the same text as the string passed in, but with all letters converted to Uppercase

LowerCase LowerCase(String):string

LowerCase returns a string with the same text as the string passed in, but with all letters converted to LowerCase

Replace Replace(String,OldPattern,NewPattern):string

Replace replaces all occurrences of the OldPattern by NewPattern within the String

SubString

SubString(String,Index,Count):string

SubString returns a substring containing Count characters or elements starting from Index.

RightString RightString(String,Count):string

RightString returns the trailing characters of String up to a length of Count characters

LeftString LeftString(String,Count):string

LeftString returns the leading characters of String up to a length of Count characters

AddCharLeft AddCharLeft(Char,String,Count):string

AddCharLeft returns a string left-padded to Length with characters Char

AddCharRight AddCharRight(Char,String,Count):string

AddCharRight returns a string right-padded to Length with characters Char

MakeString MakeString(Char,Count):string

MakeString returns a string of Count filled with character Char.

DelSpaces DelSpaces(String):string

DelSpaces returns string with all spaces deleted except one. "two spaces"->"two spaces

Delete Delete(String,Index,Count):String

DelSpaces returns string with count characters deleted starting from index.

Insert Insert(Source,S,Index):String

Insert returns string with s string inserted in index.

ProperCase ProperCase(String):string

ProperCase returns string, with the first letter of each word in uppercase and all other letters in lowercase "proper case"->"Proper Case"

Numeric Functions

Abs Abs(Integer):Integer

Abs returns the absolute value of the argument

Round Round(Float,Integer):Float

Use Round to round Value to a specified power of ten.

The following examples illustrate the use of Round:

Expression Value

Round(1234567, 3) 1234000 Round(1.234, -2) 1.23 Round(1.235, -2) 1.24 Round(1.245, -2) 1.24

Sign Sign(Integer):Integer

Use Sign to test the sign of a numeric value. Sign returns 0 if AValue is zero. 1 if AValue is greater than zero. -1 if AValue is less than zero.

Date Functions

Day Day(Date,Format):Integer.

Use Day to get the day part of a date value.

Day('01012003','DDMMYYYY')

Hour Hour(Date,Format):Integer.

Use Hour to get the hour part of a date value.

Hour('01012003','DDMMYYYY')

Minute Minute(Date,Format):Integer.

Use Minute to get the minute part of a date value.

Minute('01012003','DDMMYYYY')

Month Month(Date,Format):Integer.

Use Month to get the month part of a date value.

Month('01012003','DDMMYYYY')

Second Second(Date,Format):Integer.

Use Second to get the second part of a date value.

Second('01012003','DDMMYYYY')

Year Year(Date,Format):Integer.

Use Year to get the year part of a date value.

Year('01012003','DDMMYYYY')

Conversion Functions

IntegerToString IntegerToString(Integer):String

IntegerToString converts integer value to string value.

NumberToString NumberToString(Float):String

NumberToString converts float value to string value.

StringToInteger StringToInteger(String):Integer

StringToInteger converts string value to integer value.

StringToNumber StringToNumber(String):Float

StringToNumber converts string value to float value.

Miscellaneous Functions

Iif Iif(expr1==expr2;expr3;expr4)

If function returns expr3 or expr4 depending on expr1==expr2

GetSystemVariable GetSystemVariable('VARIABLENAME'):string

GetSystemVariable returns value of 'VARIABLENAME'.

Possible values for 'VARIABLENAME' are: COMPUTERNAME, OSUSERNAME, DBUSERNAME, BLOCKNUMBER, LINENUMBER, RECORDNUMBER, SYSTEM_DATE

Pos Pos(Substr,String): Integer

Pos searches for Substr within String and returns an integer value that is the index of the first character of Substr within String. Pos is case-sensitive. If Substr is not found, Pos returns zero.

GetFileHeaderLine

GetFileHeaderLine(LineNumber): String

GetFileHeaderLine function returns header line LineNumber from the source text file

17. Date formats

Date/Time format strings control the conversion of strings into date time type.

Date Time Format Strings are composed from specifiers that describe values to be converted into the date time value.

In the following table, specifiers are given in lower case. Case is ignored in formats, except for the "am/pm" and "a/p" specifiers.

Specifier	Description	
d	Day as a number without a leading zero (1-31).	
dd	Day as a number with a leading zero (01-31).	
m	Month as a number without a leading zero (1-12).	
mm	Month as a number with a leading zero (01-12).	
mmm	Month as an abbreviation (Jan-Dec).	
mmmm	Month as a full name (January-December).	
vv	Year as a two-digit number (00-99).	
уууу	Year as a four-digit number (0000-9999).	
h	Hour without a leading zero (0-23).	
hh	Hour with a leading zero (00-23).	
n	Minute without a leading zero (0-59).	
nn	Minute with a leading zero (00-59).	
S	Second without a leading zero (0-59).	
SS	Second with a leading zero (00-59).	
tt	Uses the 12-hour clock for the preceding h or hh specifier	'ลา

tt Uses the 12-hour clock for the preceding h or hh specifier, 'am' for any hour before noon, and 'pm' for any hour after noon.

18. Execution Agent.

Execution Agent is Windows NT service which allows user to schedule and execute Visual Importer packages.

A Visual Importer Enterprise - Execution Agent			×
File Help			
Scheduler Execution Log			
🖀 🖻 🕂 🗙 🖨 🖸 🔍			
Id Package	How Often	Enabled	^
26 3 Receive Data from the mail server	Daily		
27 5 Data import into Foxpo Tables	Daily		_
28 5 Data import into Foxpo Tables	Daily		
29 6 Data Import into SQL Server	Daily		_ =
			-
			–
Waiting Connected Package Failed		10	U%

🛞 Visual Importer Enterprise - Execution Agent					X		
File Help							
Scheduler Execution Log							
🕫 🖸 🗙 🖪 🎒 🙆 🗹 😫							
Id Package Name	Status	Submite	:d	Started	Finished		[^]
390 6 Data Import into SQL Server	Failed	01.04.2	005 12:59:03	01.04.2005 13:00:33	01.04.2005 1	3:02:18	C
389 5 Data import into Foxpo Tables	Finished	01.04.2	005 12:59:01	01.04.2005 12:59:57	01.04.2005 1	3:00:33	C
388 5 Data import into Foxpo Tables	Finished	01.04.2	005 12:58:59	01.04.2005 12:59:13	01.04.2005 1	2:59:57	C
							×
							>
<u>∾ 19</u> 194 ⊕ L9.							
Id No Type Action Name		Errors	Status	Started	Finished	[Durati
3584 1 🎬 Create Demo Objects [Sql	Server]	2	Finished	01.04.2005 13:00:33	01.04.2005 13:0	01:07 0	00:00:
3585 2 🖹 Orders		0	Failed	01.04.2005 13:01:07	01.04.2005 13:0	02:13 (00:01:
Waiting Connected Package Failed						1	00%

Note:

See 13 how to schedule packages for execution and 14 how to use execution monitor.

To install the Visual Importer Enterprise Execution Agent as a service run following command

VImpAgent.EXE /INSTALL

To uninstall the Visual Importer Enterprise Execution Agent as a Windows NT/2000 service you

must run the Visual Importer Enterprise Execution Agent with the /UNINSTALL switch as follows

VImpAgent.EXE /UNINSTALL

19. Support Procedure

Should you require any support please send the following information to support@dbsoftlab.com

- 1. Version number
- 2. Example of data you are trying to load
- 3. Script to create table
- 4. Database version
- 5. Operation system version
- 6. Repository
- 7. Log files
- 8. Description of the problem

20. License Agreement

Visual Importer by

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