

Control Contro



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Data Import for SQL Server User's Manual

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Data Import for SQL Server User's Manual

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This manual documents EMS Data Import for SQL Server

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1 Welcome to EMS Data Import utility!

EMS Data Import for SQL Server is a powerful program to import your data quickly from MS Excel, MS Word, MS Access, DBF, TXT, CSV, Open Document, HTML files to SQL Server tables. It provides adjustable import parameters, including source data formats for all the fields and destination data formats for the selected fields, commit options, number of records to skip, etc. Data Import for SQL Server includes a wizard which allows you to set all the import options for different files visually, and a command-line utility to execute import in one-touch.

Visit our web-site: <u>https://www.sqlmanager.net/</u> for details.

Key features

6

- Import from most popular formats: MS Excel, MS Access, XML, DBF, TXT, CSV, MS Word, Open Document Format and HTML
- Importing data to one or several tables or views from different databases
- Automatically creates table structure
- Special batch insert commands allow to import data at the maximum possible speed
- A number of import modes Insert All, Insert New, Insert or Update, and others
- UNICODE support
- Adjustable import parameters for each source file
- Saving all import parameters set on current wizard session
- Command-line utility to import data using the configuration file
- Powerful visual options module
- User-friendly localizable wizard interface

Product information

Homepage:	https://www.sqlmanager.net/products/mssql/dataimport
Support Ticket	https://www.sqlmanager.net/support
System:	
Register online at:	https://www.sqlmanager.net/products/mssql/dataimport/buy

1.1 What's new

Version Data Import for SQL Server 4.1.0 Release date

July 12, 2023

What's new in EMS Data Import?

- Support for Windows 11 ARM implemented.
- Restart of the Wizard is now available at the last step.
- Check for column name length added on creating a new table.
- Default values for separator and quotes are available for CSV now.
- The password is now saved correctly to the template file.
- XML files without header are now processed with no issues.
- Implemented localization in the command-line version.
- Exit codes are corrected for working in the console version.
- Other improvements and fixes.

1.2 System requirements

System requirements for Data Import for SQL Server

- Microsoft® Windows XP, Microsoft® Windows 2003 Server, Windows® 2008 Server, Microsoft® Windows Vista, Microsoft® Windows 7, Microsoft® Windows 8, Microsoft® Windows 2012 R2 Server, Microsoft® Windows 2012 Server, Microsoft® Windows 8.1, Microsoft® Windows 10, Microsoft® Windows 2016 Server, Microsoft® Windows 2019 Server, Microsoft® Windows 11, Microsoft® Windows 11 ARM
- 512 MB RAM or more
- 50MB of available HD space for program installation
- Microsoft Data Access Components (MDAC) or SQL Server Native Client
- Possibility to connect to any local or remote SQL Server[™]
- Supported MS SQL Server versions: from 2000 up to 2022

1.3 Installation

If you are installing Data Import for SQL Server for the first time on your PC:

- download the Data Import for SQL Server distribution package from the <u>download page</u> available at our site;
- unzip the downloaded file to any local directory, e.g. C:\unzipped;
- run *MsImportSetup.exe* from the local directory and follow the instructions of the installation wizard;
- after the installation process is completed, find the Data Import shortcut in the corresponding group of Windows Start menu.

Installation FAQs

If you want to **upgrade an installed copy of Data Import for SQL Server** to the latest version:

- download the Data Import for SQL Server distribution package from the <u>download</u> page available at our site;
- unzip the downloaded file to any local directory, e.g. C:\unzipped;
- close Data Import application if it is running;
- run *MsImportSetup.exe* from the local directory and follow the instructions of the installation wizard.

See also:

System requirements

1.4 How to buy Data Import

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All purchases are provided by **PayPro Global** registration service. The **PayPro Global** order process is protected via a secure connection and makes on-line ordering by credit/ debit card quick and safe.

PayPro Global is a global e-commerce provider for software and shareware sales via the Internet. It accepts payments in US Dollars, Euros, Pounds Sterling, Japanese Yen, Australian Dollars, Canadian Dollars or Swiss Franks by Credit Card (Visa, MasterCard/EuroCard, American Express, Diners Club), Bank/Wire Transfer.

If you want to review your order information, or you have questions about ordering or payments please visit our <u>PayPro Global Shopper Support</u>, provided by **PayPro Global**.

Please note that all of our products are delivered via ESD (Electronic Software Delivery) only. After purchase you will be able to immediately download the registration keys. Also you will receive a copy of registration keys by email. Please make sure to enter a valid email address in your order. If you have not received the keys within 2 hours, please, contact us at sales@sqlmanager.net.

To obtain **MORE INFORMATION** on this product, visit us at <u>https://www.sqlmanager.net/</u> products/mssql/dataimport

Product distribution	PayPro Global
EMS Data Import for SQL Server (Business license) + 1-Year Maintenance*	
EMS Data Import for SQL Server (Business license) + 2-Year Maintenance*	
EMS Data Import for SQL Server (Business license) + 3-Year Maintenance*	
EMS Data Import for SQL Server (Non-commercial license) + 1-Year Maintenance*	Buy Now!
EMS Data Import for SQL Server (Non-commercial license) + 2-Year Maintenance*	
EMS Data Import for SQL Server (Non-commercial license) + 3-Year Maintenance*	
EMS Data Import for SQL Server (Trial version)	<u>Download</u> <u>Now!</u>

*EMS Maintenance Program provides the following benefits:

- Free software bug fixes, enhancements, updates and upgrades during the maintenance period
- Free unlimited communications with technical staff for the purpose of reporting Software failures
- Free reasonable number of communications for the purpose of consultation on operational aspects of the software
- Access to personalized sqlmanager.net account
- online, speed-through maintenance renewal
- Advanced and exclusive notification of software promotions
- "Maintenance Owner ONLY" product promotions

After your maintenance expires, you will not be able to update your software or get

technical support. To protect your investments and have your software up-to-date, you need to renew your maintenance.

You can easily reinitiate/renew your maintenance with our online, speed-through Maintenance Reinstatement/Renewal Interface. After reinitiating/renewal you will receive a confirmation e-mail with all the necessary information.

See also: How to register Data Import

1.5 How to register Data Import

To **register** your newly purchased copy of EMS Data Import for SQL Server, perform the following:

- receive the notification letter from **PayPro Global** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter;
- make sure that the registration process has been completed successfully check the registration information at the <u>startup page</u> 24.

Register Data Import for SQL Server	×
Please enter the registration information you received when purchasing Data Import for SQL Server.	
Registration <u>N</u> ame	
Pagintation Kau	
<u>H</u> egister <u>L</u> ater <u>H</u> elp	

See also: How to buy Data Import

1.6 EMS Data Import FAQ

Please read this page attentively if you have questions about Data Import for SQL Server.

Table of contents

- What is EMS Data Import for SQL Server? [13]
- What do I need to start working with EMS Data Import for SQL Server? [13]
- What is the difference between the Import feature of SQL Manager for SQL Server and the Data Import for SQL Server utility?
- Are there any limitations implied in the trial version as compared with the full one? [14]
- What is the easiest way to configure the template files for the Data Import console application?
- I work behind a firewall (router). Can EMS Data Import connect to a remote SQL Server server?
- How to connect to a named instance of SQL Server in EMS Data Import for SQL Server?
- When connecting to SQL Server I get an error "SQL Server does not exist or access denied". What is wrong? [14]
- I can access my server via an alternative port. I have searched for a setting in EMS Data Import for SQL Server to alter the connection port, but have not yet been able to locate this. How would I go about altering this port?

Question/answer list

- Q: What is EMS Data Import for SQL Server?
- A: EMS Data Import for SQL Server is a powerful tool to import your data quickly from MS Access, MS Excel, DBF, TXT, CSV, XML, MS Excel 2007, MS Word 2007, HTML, ODF files to SQL Server tables. It provides adjustable import parameters, including source data formats for all the fields and destination data formats for the selected fields, commit options, number of records to skip, etc. Data Import includes a wizard which allows you to set all the import options for different files visually, and a command-line utility to execute import in one-touch.
- Q: What do I need to start working with EMS Data Import for SQL Server?
- A: First of all, you must have a possibility to connect to some local or remote SQL Server to work with Data Import. You can download SQL Server from https://www.microsoft.com/downloads/. Besides, you need your workstation to satisfy the system requirements system for Data Import for SQL Server.
- Q: What is the difference between the Import feature of SQL Manager for SQL Server and the Data Import for SQL Server utility?
- A: First of all, Data Import for SQL Server works faster as it is a considerably lighter application. Besides, it provides additional features for query building, namely:
 - import data to several tables simultaneously;
 - import data to tables selected from different databases;
 - the command-line version of the utility to import data using the configuration (template) file with all import settings;
- automatically creates table structure.

- Q: Are there any limitations implied in the trial version as compared with the full one?
- A: Actually the trial version of the utility only allows you to import 20% of records into each table. With this limitation, you can test all the features implemented in Data Import for SQL Server within the 30-day trial period.

Note: There is a 100 records (instead of 20%) limitation when importing from CSV, TXT or MS Access files.

- Q: What is the easiest way to configure the template files for the Data Import console application?
- A: You can configure the template files for each table visually using the Data Import Wizard application. Set the required options and select the Tools | Save Template menu item. All the options will be saved to the template file which can be used by the console application.
- Q: I work behind a firewall (router). Can EMS Data Import connect to a remote SQL Server server?
- A: Yes, but to do this, you should open the port where SQL Server works (1433 by default) on your firewall and on the firewall of the remote network.

Q:How to connect to a named instance of SQL Server in EMS Data Import for SQL Server?

A:To connect to a named instance of SQL Server 2005 just enter instance name in after host name and back slash symbol in 'Host name' field at the Setting Connection Properties step. (For example: my_server\my_instance.)

To connect to a named instance of SQL Server 2000 you need:

- Run SQL Server Client Network Utility (WINDOWS\\SYSTEM32\\cliconfig.exe) on client computer where Data Import for SQL Server runs.

- Go to the second (Alias) tab of the Utility.
- Add a new server alias with Server Name in form <server_name>\\<instanse_name> and TCP/IP as Network library.
- Use the server alias name as host name in Data Import.
- Q: When connecting to SQL Server I get an error "SQL Server does not exist or access denied". What is wrong?
- A: Probably, your SQL Server is installed as a named instance (See Q. "<u>How to connect to</u> <u>a named instance of SQL Server in EMS SQL Manager for SQL Server?</u> [14]").

Besides, the following factors can be the reasons for connection problems: - You are trying to connect to SQL Server beyond your local network, through firewall (See Q. "<u>I work behind a firewall (router)</u>. Can Data Import connect to a remote SQL <u>Server</u>? [14]"

- Wrong login/password. Either you use SQL Server Authentication, but this authentication type is forbidden on the server, or you use Windows Authentication to connect to the server, but the login that corresponds to your domain name is absent on SQL Server.

- MDAC works incorrectly. Try to reinstall Microsoft Data Access Components.

- SQL Server works on a non-standard (other than 1433) port (See Q. "<u>I can access</u> my server via an alternative port. I have searched for a setting in the program to alter the connection port, but have not yet been able to locate this. How would I go about altering this port? 15".

- There are no enabled client connection protocols. Or all enabled client connection protocols are disabled on server side. Use SQL Server Client Network Utility (WINDOWS\\SYSTEM32\\cliconfig.exe) for connection to SQL Server 2000 or lower or SQL Server Configuration Manager to enable appropriate protocols.

Q: I can access my server via an alternative port. I have searched for a setting in EMS Data Import for SQL Server to alter the connection port, but have not yet been able to locate this. How would I go about altering this port?

A: To connect to SQL Server 2005 on alternative port do the following:

- Run SQL Server Configuration Manager on client computer where Data Import runs.
- Expand the SQL Native Client Configuration section.
- Select the Aliases section.

- Add a new server alias and set server name, port number and TCP/IP as Network library.

- Use the server alias name as host name in Data Import utility.

To connect to SQL Server 2000 on alternative port do the following:

- Run SQL Server Client Network Utility (WINDOWS\\SYSTEM32\\cliconfg.exe) on client computer where Data Import runs utility.

- Go to the second (Alias) tab of the Utility.

- Add a new server alias and set server name, port number and TCP/IP as Network library.

- Use the server alias name as host name in Data Import utility.

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If you still have any questions, contact us at <u>Support Center</u>.

1.7 Other EMS Products

Quick navigation



MySQL

SQL Management Studio for MySQL

EMS SQL Management Studio for MySQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



SQL Manager for MySQL

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for MySQL

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.



Data Import for MySQL

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

Data Pump for MySQL

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to MySQL.



Data Generator for MySQL

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



DB Comparer for MySQL

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.

DB Extract for MySQL

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



SQL Query for MySQL

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



Data Comparer for MySQL

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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Microsoft SQL Server

SQL Management Studio for SQL Server

EMS SQL Management Studio for SQL Server is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



EMS SOL Backup for SOL Server

Perform backup and restore, log shipping and many other regular maintenance tasks on the whole set of SQL Servers in your company.



SQL Administrator for SQL Server

Perform administrative tasks in the fastest, easiest and most efficient way. Manage maintenance tasks, monitor their performance schedule, frequency and the last execution result.



SQL Manager for SQL Server

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for SQL Server

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more



Data Import for SQL Server

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



Data Pump for SQL Server

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, DB2, InterBase/Firebird, etc.) to Microsoft® SQL Server™.



Data Generator for SQL Server

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



DB Comparer for SQL Server

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



DB Extract for SQL Server

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



SQL Query for SQL Server

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



Data Comparer for SOL Server

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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PostgreSQL

SQL Management Studio for PostgreSQL

EMS SQL Management Studio for PostgreSQL is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



EMS SQL Backup for PostgreSQL

Creates backups for multiple PostgreSQL servers from a single console. You can use automatic backup tasks with advanced schedules and store them in local or remote folders or cloud storages



SQL Manager for PostgreSQL

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for PostgreSOL

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more



Data Import for PostgreSOL

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



Data Pump for PostgreSOL

Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, InterBase/Firebird, etc.) to PostgreSQL.



Data Generator for PostgreSOL

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



DB Comparer for PostgreSOL

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



DB Extract for PostgreSOL

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.

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SQL Query for PostgreSQL

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

Data Comparer for PostgreSOL

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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InterBase / Firebird

SQL Management Studio for InterBase/Firebird

EMS SOL Management Studio for InterBase and Firebird is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!

SQL Manager for InterBase/Firebird

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for InterBase/Firebird

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more

Data Import for InterBase/Firebird

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



Data Pump for InterBase/Firebird

Migrate from most popular databases (MySQL, SQL Server, Oracle, DB2, PostgreSQL, etc.) to InterBase/Firebird.



Data Generator for InterBase/Firebird

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



DB Extract for InterBase/Firebird

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



SQL Query for InterBase/Firebird

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



Data Comparer for InterBase/Firebird

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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Oracle



SQL Management Studio for Oracle

EMS SQL Management Studio for Oracle is a complete solution for database administration and development. SQL Studio unites the must-have tools in one powerful and easy-to-use environment that will make you more productive than ever before!



SQL Manager for Oracle

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for Oracle

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.

Data Import for Oracle

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.

<u>Data Pump for Oracle</u>

Migrate from most popular databases (MySQL, PostgreSQL, MySQL, DB2, InterBase/Firebird, etc.) to Oracle

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Data Generator for Oracle

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



DB Comparer for Oracle

Compare and synchronize the structure of your databases. Move changes on your development database to production with ease.



DB Extract for Oracle

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



SQL Query for Oracle

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.



Data Comparer for Oracle

Compare and synchronize the contents of your databases. Automate your data migrations from development to production database.

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IBM DB2

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SQL Manager for DB2

Simplify and automate your database development process, design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.



Data Export for DB2

Export your data to any of 20 most popular data formats, including MS Access, MS Excel, MS Word, PDF, HTML and more.



Data Import for DB2

Import your data from MS Access, MS Excel and other popular formats to database tables via user-friendly wizard interface.



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Data Pump for DB2

Migrate from most popular databases (MySQL, PostgreSQL, Oracle, MySQL, InterBase/Firebird, etc.) to DB2

Data Generator for DB2

Generate test data for database testing purposes in a simple and direct way. Wide range of data generation parameters.



DB Extract for DB2

Create database backups in the form of SQL scripts, save your database structure and table data as a whole or partially.



SQL Query for DB2

Analyze and retrieve your data, build your queries visually, work with query plans, build charts based on retrieved data quickly and more.

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Tools & components



Advanced Data Export for RAD Studio VCL

Advanced Data Export for RAD Studio VCL allows you to save your data in the most popular office programs formats.



Advanced Data Export .NET

Advanced Data Export .NET is a component for Microsoft Visual Studio .NET that will allow you to save your data in the most popular data formats for the future viewing, modification, printing or web publication. You can export data into MS Access, MS Excel, MS Word (RTF), PDF, TXT, DBF, CSV and more! There will be no need to waste your time on tiresome data conversion - Advanced Data Export will do the task quickly and will give the result in the desired format.



Advanced Data Import for RAD Studio VCL

Advanced Data Import for RAD Studio VCL will allow you to import your data to the database from files in the most popular data formats.



Advanced PDF Generator for RAD Studio

Advanced PDF Generator for RAD Studio gives you an opportunity to create PDF documents with your applications written on Delphi or C++ Builder.



Advanced Query Builder for RAD Studio VCL

Advanced Query Builder for RAD Studio VCL is a powerful component for Delphi and C++ Builder intended for visual building SQL statements for the SELECT, INSERT, UPDATE and DELETE clauses.



Advanced Excel Report for RAD Studio

Advanced Excel Report for RAD Studio is a powerful band-oriented generator of template-based reports in MS Excel.



Advanced Localizer for RAD Studio VCL

Advanced Localizer for RAD Studio VCL is an indispensable component for Delphi for adding multilingual support to your applications.

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2 Wizard application

Data Import for SQL Server wizard application provides easy-to-use wizard interface to set all data import parameters visually.

🐺 Da	ata Import for SQL Server	·	- • •
W	elcome to Data Import	for SQL Server!	
		This Wizard helps you to import data from XLS, XLSx, MDB, DBF, TXT, CSV, XML, DOCx, HTML, ODS and ODT files to SQL Server database tables.	
	Dete	Click 'Next' to start working with the wizard.	
	Import	Product Information:	
	for	Developers: Alex Paclin, Dmitry Schastlivtsev, Paul Leonov	
	SQL Server	Homepage: http://www.sqlmanager.net/products/mssql/datamport Support Tiglet Sustem: http://www.sqlmanager.net/products/mssql/datamport	
		Version: 3.8.0 (build 46782)	
		Registered to : EMS (Business license)	
		Enter Registration Code	
	Help Tools		Close

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See also:

Console Application 76

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2.1 Working with wizard application

Follow the steps of the wizard to import data to SQL Server tables for your needs.

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Step 10 - Defining scripts to execute before and after import 64
Step 11 - Start of data import process

See also:

Using data import configuration files661Setting program preferences681

2.1.1 Getting started

This is how Data Import for SQL Server wizard application looks when you first start it.

This page allows you to view registration information. If you have not registered Data Import for SQL Server yet, you can do it by pressing the **Register** button and <u>entering</u> your registration information 12.

瑇 Data Import for SQL Server		- • •
Welcome to Data Import for S	QL Server!	
Data Import for SOL Server	This Wizard helps you to import data from XLS, XLSx, MDB, DBF, TXT, CSV, XML, DOCx, HTML, ODS and ODT files to SQL Server database tables. Click 'Next' to start working with the wizard. Product Information: Developers: Alex Paclin, Dmitry Schastlivtsev, Paul Leonov Homepage: http://www.sqlmanager.net/products/mssql/dataimport Support Ticket System: http://www.sqlmanager.net/support Version: 38.0 (build 46782) Registered to : EMS (Business license) Enter Registration Code	
Help Tools 🗸	<< Back Next >>	Close

Press the **Next** button to proceed to <u>Setting connection properties</u> 25.

See also:

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2.1.2 Step 1 - Setting connection properties

At this step you should specify necessary settings to establish **connection** to the target SQL Server database.

🐺 Data Import for SQL Serv	er					-	-		×
Step 1 of 11									
Set SQL Server server c	onnection options						_		_
			Connection	n Properties					
	Host	tester2\sql2017	~	Login	tester				
	Authentication	SQL Server	~	Password	•••••				
Data Import for SQL Server									
Help Tools	•				<< Back	Next >>		Close	2

Connection settings

For connection you should enter SQL Server host name in the **Host** field or select the needed host from the drop-down list. This list is formed using *SQL-DMO* components function - "ListAvailableSQLServers". If *SQL-DMO* components are not installed the "NetServerEnum" function from *netapi32.dll* is used. If neither SQL-DMO components, nor netapi32.dll are installed, the **Host** drop-down list will be empty when the program is launched for the first time, and filled with host names already registered in the program, during further launches.

Please note that if Microsoft® SQL Server[™] is installed as a named instance, you should specify 'Remote' as the connection type and enter the name, or IP address of your machine and the instance name in the 'Host' field in the following format: computer_name\sqlserver_instance_name or ip_address\sqlserver_instance_name (e.g. "MYCOMPUTER\SQLEXPRESS", "127.0.0.1\SQLEXPRESS").

Authentication Type

Specify the type of SQL Server authentication to be used for the connection: *SQL Server* or *Windows* authentication. It is strongly recommended to avoid using SQL Server authentication with "sa" as the login.

If SQL Server has been selected as the *authentication type*, you should also provide *authorization* settings: **Login** and **Password**.

For your convenience the **Connection timeout** option is implemented: set this option to optimize the performance of the utility upon connection to your instance of SQL Server. Use the **Command timeout** option to set time available for command execution.

If you are using the EMS SQL Management Studio for SQL Server version of Data Import for SQL Server then the **Select registered database** button is available. Click this button to pick a database already registered in the EMS SQL Management Studio in the <u>Select Host or Database</u> [27] dialog.

Please note that you need to have sufficient privileges to be able to write to the destination database on SQL Server.

If you get any difficulties connecting to the database, it can be useful to look through \underline{FAQs} [13].

NOTE: The **Tools** button gets access to saving/loading import templates or adjusting program <u>Preferences</u> [68].

When you are done, press the **Next** button to proceed to the <u>next step</u> 27 h.

2.1.2.1 Selecting registered database

Use this dialog to select a database for importing data. This dialog is available only in EMS SQL Management Studio version of Data Import for SQL Server.



All databases registered in EMS SQL Management Studio for SQL Server are displayed in the list.

Select the necessary database and click the **OK** button.

Database registration information will be filled on the <u>first step</u> 25° automatically.

2.1.3 Step 2 - Selecting files to import

At this step you should **select source file(s) to be imported**.

Click the **add File** button to select the source file name using the **Open file...** dialog. Repeat this operation to add more source files (if necessary).

You can choose among the following types of the source data file:

- MS Excel
- MS Excel 2007
- MS Word 2007
- MS Access
- DBF
- *TXT*
- CSV
- HTML
- XML Data Packet
- XML MS Access
- XML Doc
- ODS
- ODT

The open file dialog allows you to set a filter on the source file format.

If you have selected the file of a format that is not supported the **Select Import Type** dialog appears.

Select Import Type	×
File name:	
C:\EMS\Data files\public_a	ll_types2.dbt
Import Type	
MS Excel 97-2003	O MS Excel
O MS Access	O MS Word
ODBF	
O TXT ○	○ XML Document
⊖ CSV	ODS
⊖ XML	
Associate Extension	
	OK Cancel

Here you can select which import type for supported file formats should be applied to import the selected file.

To delete a file from the list, select it and click the **kernove File** button.

You can also change the order of the source files in the list using the **Up** and the **Down** buttons.

	Si	Selected Files							
	🛃 Add file 🛛 🙀 Remove file								
File		Table							
2	C:\EMS\docs\COUNTRY.xls	DEMODB.HumanResources.COUNTRY							
2	C:\EMS\docs\CUSTOMER.mdb	DEMODB.HumanResources.CUSTOMER							
	C:\EMS\docs\DEPARTMENT.ods	DEMODB.HumanResources.DEPARTMENT							
È	C:\EMS\docs\DISCOUNTS.odt	DEMODB.HumanResources.DISCOUNTS							
2	C:\EMS\docs\EMPLOYEE.xlsx	DEMODB.HumanResources.EMPLOYEE							
3	C:\EMS\docs\JOB.csv	DEMODB.HumanResources.JOB							
2	C:\EMS\docs\PAYMENT.xml	DEMODB.HumanResources.PAYMENT							
W)	C:\EMS\docs\PRODUCT.docx	DEMODB.HumanResources.PRODUCT							
e	C:\EMS\docs\PROJECT.dbf	DEMODB.HumanResources.PROJECT							

Note: For the spreadsheet files: if you need to import data from different sheets into different tables you are to include that multi-sheet spreadsheet file into the list several times (equal to the number of sheets to be imported to different tables).

When a file is selected the **Select Table** dialog appears:

🐺 Select Table		×									
C:\EMS\Data files\customer.mdb											
Database: AdventureWorksDW											
Scheme: dbo											
O Insert into exis	ting table	Refresh									
DimDate DimDate2 DimDepartu DimEmploy DimGeogra DimOrgani DimOrgani	mentGroup vee phy zation t	^									
 DimProductCategory DimProductSubcategory DimPromotion DimReseller Create new table 											
customer											
	ОК	Cancel									

File name

Displays the name of the imported file and full path.

Database field allows you to specify the target database.

Insert into existing table

Select this option to import data to the existing table. The active area contains the list of tables in the selected database. You can refresh the list by clicking the **Refresh** button.

Oreate new table

Use this option to create import destination table.

Schema

Use the drop-down list to select the schema in which the table should be created.

To change the target SQL Server table that has been already assigned to a source data file, select the table in the list and press the ellipsis is button to call the **Select Table** dialog again.

When you are done, press the **Next** button to proceed to the <u>next step</u> 31.

2.1.4 Step 3 - Setting XML file type

This step appears if you have selected *.xml file for importing data from.

Files IHR_DEPARTMENTmdt HR_EMPLOYEE.xml	XML file type	⊘ XML MS Access
	XML Data Packet	© XML Doc File
Database: DemoDB Tables: "HR"."EMPLOYEE"		

XML file type

Select the type of *.xml file from which you are importing data:

 Auto Detect - file type will be detected automatically whether it is XML MS Access or XML data packet file;

 XML MS Access - select this option if your *.xml file has the same structure as files exported from MS Access;

 XML Data Packet - select this option if your *.xml file has data representation format used by Embarcadero;

XML Doc File - select this option to map fields of a <u>Generic XML document</u> [41] manually.

When you are done, press the **Next** button to proceed to the <u>next step</u> 31.

2.1.5 Step 4 - Mapping fields

This step of the wizard allows you **to set correspondence** between columns of the source file and fields of the target SQL Server table, according to the source data format.

- MS Excel 97-2003 32
- MS Excel mapping 33
- MS Word mapping [36]
- MS Access mapping 37
- DBF mapping 38
- XML mapping 40
- XML Document mapping [41]

- TXT mapping 43
- <u>CSV mapping</u> 44
- HTML Document 46
- ODS mapping 47
- ODT mapping 49

To get more information about the file formats, see the <u>Supported file formats</u> and page.

When you are done, press the **Next** button to proceed to the <u>next step</u> 50° .

2.1.5.1 MS Excel 97-2003

Table

Select the sheet for importing data from.

Select the needed source file from the list. Then specify ranges in the grid for the target and source fields:

- select a field of the target SQL Server table in the Fields list;
- proceed to the sheet grid: click a column caption to select the whole column or click the row number to select the whole row;
- the selected column/row of the source file gets green highlight, and a new range indicating the source and target fields correspondence appears in the **Range** list;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the Auto Fill by Captions mode

to set the correspondence based on name's identity. You can also use the **Auto fill Rows** to set the correspondence between destination table fields and source file rows.

If new table creation was selected at the <u>previous step</u> 27, then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

P	New column
	Edit column
X	Drop column(s)

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

If necessary, you can choose to skip a defined number of the source file columns and/or rows using the **Skip Col(s)** and **Skip Row(s)** spin-edits.

Files SALES.html FILM.xlsx DEPARTMENT.o FIMPLOYEE.docs PAYMENT.dbf COUNTRY.xls ACTOR.txt SALARY.csv	ods x	> <	2	Fields country_id [SMALLINT] country [VARCHAR] last_update [TIMESTAMP] Table Sheet 1						
CITY.odt	~		s	Skip row(s) 1 🛋 Skip col(s) 0						
CUSTOMER.md	lb				A	B	C			^
				2	1	Afghanistan	15.02.2006 ·			T
				3	2	Algeria	15.02.2006 4			
				4	3	American Sa	15.02.2006 4			
				5	4	Angola	15.02.2006 4			
				6	5	Anguilla	15.02.2006 -			
				7	6	Argentina	15.02.2006 -			
				8	7	Armenia	15.02.2006 •			
Database: sa	akila			9	8	Australia	15.02.2006 -			
Tables: co	ountry			10	9	Austria	15.02.2006			~

If your spreadsheet file contains several sheets, you are able to set different mapping for each sheet.

To clear ranges for a field, select the field in the Fields list and press the button.	🛀 Clear
To clear all ranges specified for the target table fields, press the Clea	r All button

To <u>set a range of data</u> [86] to be imported from the file, use the **Add range** button.

	То	remove	а	range,	use	the		Delete	range	button.
--	----	--------	---	--------	-----	-----	--	--------	-------	---------

Using the **Move Up** and the **Move Down** buttons you can change the order of ranges applied to data.

Click the **Next** button to proceed to the <u>Setting base data formats</u> [50] step of the wizard.

2.1.5.2 MS Excel

Table

Select the sheet for importing data from.

Select the needed source file from the list. Then specify ranges in the grid for the target and source fields:

- select a field of the target SQL Server table in the Fields list;
- proceed to the sheet grid: click a column to assign the column to the selected target

table field;

- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

Note: The number of the column for which correspondence was set is displayed at the **Col.** control. You can use it for setting the fields correspondence as well.

If new table creation was selected at the previous step 27, then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

📭 New column	
Edit column	
Drop column(s)	

If necessary, you can choose to **skip** a defined number of the source file rows or columns using the **Skip lines** or **Skip cols** spin-edit.

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Files			\$	-	×	×.]	+	-	+ +			
SALES.html			F										-
FILM.xlsx	 ✓ 		Field	s				Kan	ige				
DEPARTMENT.	ods												
EMPLOYEE.doo	cx .		t	itle [VARCH	AR]								
PAYMENT.dbf	~		d	escription [[TEXT]								
CUSTOMER.md	db 🗸			elease_year	[YEAR]								
COUNTRY.xls	~		Ianguage_id [TINYINT] Table										
ACTOR.txt	· · · ·	3	0	riginal_lang	uage_id [TII	NYINT]		ch	eet1				~
SALARY.csv			I	ental_durati	on [TINYIN	T]	× .	211					×
CITV odt	1								 T				
	×.		5	skip row(s)		Skip ci	ol(s) 0		-				
NEW REALING	*			Α	В	с	D		E	F	G	н	~
			1	film id	title	description	release	yea	language id	original lang	rental durat	rental r	1
			2	1	ACADEMY C	A Epic Dram	2006	-	1	null	6	0,99	-
			3	2	ACE GOLDF	A Astoundin	2006		1	null	3	4,99	-
			4	3	ADAPTATIO	A Astoundin	2006		1	null	7	2,99	-
			5	4	AFFAIR PRE	A Fanciful D	2006		1	null	5	2,99	-
			6	5	AFRICAN EG	A Fast-Pace	2006		1	null	6	2,99	-
			7	6	AGENT TRU	A Intrepid Ρε	2006		1	null	3	2,99	
			8	7	AIRPLANE S	A Touching :	2006		1	null	6	4,99	`
Databasa	akila		<									>	
Database: S	akiid		To se	lect the colu	mn click its l	header. To se	elect the	row	click its nun	nber. To sele	ct several ce	lls at on	ce
Tables:	ilm		click	the right cel	l and the last	cell holding	y the "Shi	ift" b	utton.				

× To remove a correspondence, select the field in the **Fields** list and press the Clear Field Ranges button.

To remove all correspondences, press the **Clear All Ranges** button.

If your spreadsheet file contains several sheets, you are able to set different mapping for each sheet.

× To clear ranges for a field, select the field in the **Fields** list and press the **Clear** button.

To clear all ranges specified for the target table fields, press the Clear All button.

To <u>set a range of data</u> [86] to be imported from the file, use the **Add range** button.

To remove a range, use the **Delete range** button.

Using the **Move Up** and the **Move Down** buttons you can change the order of ranges applied to data.

Click the **Next** button to proceed to the Setting base data formats [50] step of the wizard.

2.1.5.3 MS Word

36

Specify ranges in the grid for the target and source fields:

- select a field of the target SQL Server table in the New fields list;
- proceed to the sheet grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

Table

In case the file contains several tables select the require one from the dropdown menu.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

If new table creation was selected at the <u>previous step</u> 27^{h} , then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.



If necessary, you can choose to **skip** a defined number of the source file rows using the **Skip lines** spin-edit.

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .
Files			* -	×	×						
🕘 SALES.html			New fields			Ma ^	Table				
	ods		EMP_NC) [INTEGER]	1	: Table: 1				\sim
EMPLOYEE.do	сх		FIRST_N	AME (VAR	CHAR]	2					
PAYMENT.dbf				EXT [INTE	GER]	4					
COUNTRY,xls	db		HIRE_D	ATE [VARCI	HAR]	5					
ACTOR.txt				O [INTEGER] AR1						
SALARY.csv			100_00	DE [VARCH							
CITY.odt BENITAL vml			Skip lin	e(s) 1	▲ ▼						
			1	2	3	4	5	6	7	8	۸ ۶
			EMP_NO	FIRST_NAMI	LAST_NAME	PHONE_EXT	HIRE_DATE	DEPT_NO	JOB_CODE	JOB_GRADE	J
		1	2	Robert	Nelson	250	12/28/1988	600	VP	2	L
			4	Bruce	Young	233	12/28/1988	621	Eng	2	U
			5	Kim	Lambert	22	2/6/1989 12:	130	Eng	2	L I
			9	Phil	Forest	229	4/17/1989 12	622	Mnor	3	^u
			11	к. J.	Weston	34	1/17/1990 1	130	SRep	4	ŭ
			12	Terri	Lee	256	5/1/1990 12	000	Admin	4	U
Databasa			14	Stewart	Hall	227	6/4/1990 12	900	Finan	3	u 🗸
New table:	employee		<							3	>

To remove a correspondence, select the field in the **New fields** list and press the **Clear** button.

To remove all correspondences, press the **Clear All** button.

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.5.4 MS Access

Switch between existing **Access table** and custom **Access SQL query** to retrieve data from.

Set correspondence between the source MS Access fields and the target SQL Server table fields:

- select a field of the target SQL Server table in the **Table fields** list;
- proceed to the sheet grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If new table creation was selected at the <u>previous step</u> 27, then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

Ŗ	New column
	Edit column
	Drop column(s)

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

If you choose a query as the data source, you also can load a SQL query from a *.sql file or save the current query text to a file using the **Load from File...** and the **Save to File...** buttons correspondingly.

Use the **Auto Fill Columns** button to set correspondence between the source and target fields automatically on the basis of their order.

Files SALES.html FILM.xlsx DEPARTMENT.ods EMPLOYEE.docx PAYMENT.dbf COUNTRY.xls ACTOR b.4	* * *	New fields CUST_N CUSTON CONTAG CONTAG PHONE	X IO [INTEGE MER [VARC CT_FIRST [V CT_LAST [V _NO [VARC	K] HAR] /ARCHAR] ARCHAR] HAR]	Ma ^ CUST CUST CONT CONT PHON		ccess table DRT_TABLE ccess SQL que	ry 📑		~
SALARY.csv	~	ADDRE	SS_LINE1 [\ SS_LINE2 [\	/ARCHAR] /ARCHAR]	ADDR ADDR V					~
RENTAL.xml	~	CUST_NO	CUSTOMER	CONTACT_F	CONTACT_L	PHONE_	NO ADDRESS	L ADDRESS_L	CITY	\$ ^
CUSTOMER.mdb		1001	Signature De	Dale J.	Little	(619) 53	0-2, 15500 Pac		San Diego	-
		1002	Dallas Techr	Gien	Brown	(214) 96	J-2, P. U. BOX 4	0.00	Dallas	÷
		1003	Buttle, Griffit	James	Buttle	(617) 48	8-1; 2300 New	Suite 101	Boston	<u>•</u>
		1004	Central Banł	Elizabeth	Brocket	61 211 9	9 81 66 Lloyd S	in	Manchester	+
		1005	DT Systems	Tai	Wu	(852) 85	0 4: 400 Conna	u <u>i</u>	Central Hong	4
		1006	DataServe Ir	Tomas	Bright	(613) 22	9 31 2000 Carlir	g Suite 150	Ottawa	C
		1007	Mrs. Beauva		Mrs. Beauva		P.O. Box 2	27	Pebble Beac	C
		1008	Anini Vacati	Leilani	Briggs	(808) 83	5-7(3320 Lawa	ii	Lihue	H
		1009	Max	Max		22 01 23	1 Emerald	24	Turtle Island	
		1010	MPM Corpor	Miwako	Miyamoto	3 880 77	19 2-64-7 Sas	а	Tokyo	
Databaser sakil:	•	1011	Dynamic Inte	Victor	Granges	01 221 1	6 51 Florhofgas	S	Zurich	- v
New table: custo	omers	<	•	1	1		1		· :	>

To remove a correspondence, select the field in the Fields list and press the **Clear** button.

To remove all correspondences, press the **Clear All** button.

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.5.5 DBF

Set correspondence between the source DBF columns and the target SQL Server table fields:

• select a field of the target SQL Server table in the Table Fields list;

- proceed to the grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If new table creation was selected at the <u>previous step</u> 27^{1} , then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.



Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Use the **Auto Fill Columns** button to set correspondence between the source and target fields automatically on the basis of their order.

Charset

Use this field to specify the source file character set.

Skip deleted rows

Use the option to exclude records marked as deleted in source DBF file.

Files			* -	×	×					
SALES.html		.	Fields		Maj	oped \land	Charset			
FILM.xIsx				id ISMALL	INTI PAY		None			
DEPARTMENT.	ods			r id ISMALI	INTI CUS	TOMER	inone			Ť
EMPLOYEE.doc	х	_	staff id		STA	FF ID	🗹 Skip d	eleted rows		
PAYMENT.dbf				UNTECEDI	DEN					
CUSTOMER.md	lb 🔹		rental_id							
COUNTRY.xls		∕ .	amount		AM					
ACTOR.txt		∕∥		_date [DAI	ETIMEJ PAY	MENI_I				
a, SALARY.csv			last_upd	ate [TIMEST	AMP] LAS	T_UPDA ⊻				
CITY.odt		/ 8	PAYMENT_ID	CUSTOMER_	STAFF_ID	RENTAL_ID	AMOUNT	PAYMENT_C	LAST_UPDAT	^
RENTAL.xml		/	1	1	1	76	2.9900	25.05.2005	15.02.2006	
			2	1	1	573	0.9900	28.05.2005	15.02.2006	
		1	3	1	1	1185	5.9900	15.06.2005	15.02.2006	
		1	4	1	2	1422	0.9900	15.06.2005	15.02.2006	
			5	1	2	1476	9.9900	15.06.2005	15.02.2006	
			6	1	1	1725	4.9900	16.06.2005	15.02.2006	
			7	1	1	2308	4.9900	18.06.2005	15.02.2006	
			8	1	2	2363	0.9900	18.06.2005	15.02.2006	
			9	1	1	3284	3.9900	21.06.2005	15.02.2006	
			10	1	2	4526	5.9900	08.07.2005	15.02.2006	
Database: s	akila		11	1	1	4611	5.9900	08.07.2005	15.02.2006	
Tables: p	avment		12	1	1	5244	4.9900	09.07.2005	15.02.2006	×

To remove a correspondence, select the field in the Fields list and press the **Clear** button.

To remove all correspondences, press the **Clear All** button.

Click the **Next** button to proceed to the <u>Setting base data formats</u> [50] step of the wizard.

2.1.5.6 XML

Set correspondence between the source XML columns and the target SQL Server table fields:

- select a field of the target SQL Server table in the Table Fields list;
- proceed to the grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If new table creation was selected at the <u>previous step</u> [27], then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

New column	
Edit column	
Drop column(s)	

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Use the **Auto Fill Columns** button to set correspondence between the source and target fields automatically on the basis of their order.

Encoding

Use this field to select the file encoding.

Files		* -	X %						
SALES.html		Fields		N		ncoding			
FILM.xlsx	✓			IV					_
DEPARTMENT.ods				те 1		Inicode (UTF-8)			\sim
EMPLOYEE.docx		rental_o		j re	ental				
PAYMENT.dbf	~	invento	ory_id [MEDIUM	INI] in	ven				
COUNTRY.xls	~	custom	er_id [SMALLIN	[] a	istoi				
ACTOR.txt	~	return_c	late [DATETIME]						
SALARY.csv	3	staff_id	[TINYINT]						
CITY.odt	- 🗸 🗄	last_upc	ate [TIMESTAMF	<u>[]</u>	<u> </u>				
RENTAL.xml	~	rental_id	rental_date	inventory_id	customer_id	return_date	staff_id	last_update	^
CUSTOMER.mdb	3	1	24.05.2005 0:00	367	130	26.05.2005 0:00	1	15.02.2006 0:00	
	3	2	24.05.2005 22:54	1 525	459	28.05.2005 19:40	1	15.02.2006 21:30	
		3	24.05.2005 23:03	1 711	408	01.06.2005 22:12	1	15.02.2006 21:30	
		4	24.05.2005 23:04	2 452	333	03.06.2005 1:43	2	15.02.2006 21:30	
		5	24.05.2005 23:05	2 079	222	02.06.2005 4:33	1	15.02.2006 21:30	
		6	24.05.2005 23:08	2 792	549	27.05.2005 1:32	1	15.02.2006 21:30	
		7	24.05.2005 23:11	3 995	269	29.05.2005 20:34	2	15.02.2006 21:30	
		8	24.05.2005 23:31	2 346	239	27.05.2005 23:33	2	15.02.2006 21:30	
		9	25.05.2005 0:00	2 580	126	28.05.2005 0:22	1	15.02.2006 21:30	
		10	25.05.2005 0:02	1 824	399	31.05.2005 22:44	2	15.02.2006 21:30	
Database: sakila	3	11	25.05.2005 0:09	4 443	142	02.06.2005 20:56	2	15.02.2006 21:30	¥
Tables: renta	d	<						3	>

To remove a correspondence, select the field in the Fields list and press the $\ensuremath{\textbf{Clear}}$ button.

To remove all correspondences, press the **Clear All** button.

Click the **Next** button to proceed to the <u>Setting base data formats</u> [50] step of the wizard.

2.1.5.7 XML Document

In order to set mapping of a Generic XML document, you should first select the desired XML Document in the **Files** list. The tree-like structure of source document is displayed in the area located to the right from the **New fields** list. Select a node in the tree to get its relative path or type the path manually in the editor below (the path must be specified in the XPath format). Upon pressing the **Fill grid** button the grid gets filled with *Sub Nodes Text* or *Attributes* values of the selected node.

Note: if the source XML document contains huge amount of data, building the tree may take a long time.

Set correspondence between the source XML file columns and the target SQL Server table fields:

- select a field of the target SQL Server table in the Fields list;
- proceed to the source grid viewer area: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

You can use the **Auto Fill Columns** button to set correspondence between the source and target fields automatically according to their order (mapping is started from the first attribute value in this case).

When you import data to a newly created table, the **Analyze** button appears. Use this button for automatic field creation.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

If necessary, you can choose to **skip** a defined number of the source file lines using the **Skip Lines** spin-edit.

Files COUNTRY.xls CUSTOMER.r DEPARTMEN DISCOUNTS. SMPLOYEE.xl JOB.csv PAYMENT.xm PROJECT.dbf SALES brod	ndb 🖌 T.ods 🖌 odt Isx 🖌	New fields city_ic city [v countr loc countr loc countr	X I [DOUBLE] VARCHAR(21 ry_id [DOUB pdate [VARC)] LE] CHAR(15)]	Grid Col 3 4 5 6	<pre>//dataroot</pre>	©xsi:noNames ITTY city_id city country_id last_updat III /CITY	paceSchemaLocation /	
STORES.txt	•	Skip line(s)				Sub Node	s Text	Fill grid Analyze	j
		Node name CITY CITY CITY CITY CITY CITY CITY	 Text 1,000000A (2,000000Ab 3,000000Ab 4,000000Ac 5,000000Ad 6,000000Ad 7,000000Ad 	city_id 1,000000 2,000000 3,000000 4,000000 5,000000 6,000000 7,000000	city A Corua (La Abha Abu Dhabi Acua Adana Addis Abeba Aden	county_id 87,000000 82,000000 101,000000 60,000000 97,000000 31,000000 107,000000	last_update 15.02.2006 ! 15.02.2006 ! 15.02.2006 ! 15.02.2006 ! 15.02.2006 ! 15.02.2006 ! 15.02.2006 !	(<
Database: New table:	DIOMED TESTER.CITY	CITY CITY	8,000000Ad 9,000000Ah	8,000000 9,000000	Adoni Ahmadnagai	44,000000 44,000000	15.02.2006 ! 15.02.2006 !		Ŧ

To remove all correspondences, press the **Clear All** button.

If you choose to import data to the newly created table, at this step you need to create necessary fields. Use the corresponded context menu item to manage fields [84].

Ŗ	New column
	Edit column
X	Drop column(s)

Note: If table was properly created or already exists, it will be marked with a tick 🛩. If

an error occurs during table creation, this table will be marked with a cross X.

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.5.8 TXT

Set correspondence between the source text file columns and the target SQL Server table fields:

- select a field of the target SQL Server table in the Fields list;
- double-click in the text viewer area to add vertical separators delimiting the source column bounds;
- click the area between the separators to assign the column to the selected target table field the selected source column gets black highlight;
- repeat the operation for all the fields you need to be included in the import process.

The **Fields** list also allows you to view the following values:

Pos represents the starting point of your selection;

Length displays the width of the selected area.

You can change these parameters manually or by moving the slider in the grid.

If necessary, you can choose to **skip** a defined number of the source file lines using the **Skip lines** spin-edit.

If the source text file and the destination SQL Server table have the same order of

columns, you can use the **Auto Fill Columns** button to set correspondence between them automatically.

The source file character set can be defined at the **Encoding** field.

🗹 Auto scroll

This option scrolls the document automatically when you switch to the next field for mapping.

When you import data to a newly created table, the **Analyze** button appears. Use this button for automatic field creation.

Files SALES.html FILM.xlsx DEPARTMENT.ods EMPLOYEE.docx PAYMENT.dbf COUNTRY.xls ACTOR.txt SALARY.csv	× × ×	Fields actor_id [SMALLINT] first_name [VARCHAR] last_name [VARCHAR] last_update [TIMESTAMP]	Pos 0 9 21 34	Leng 9 12 13 15	Auto scroll Encoding Unicode (UTF-8) ~
CITY.odt	~					
CUSTOMER.mdb	`	Skip line(s) 0				
		actor_id first_name la l PENELOPE GU	st_name	ll. 1as 15.	update 02.2006 4:34	l^
		2 NICK WA	HLBERG	15.	02.2006 4:34	
		4 JENNIFER DA	VIS	15.	02.2006 4:34	
		5 JOHNNY LO 6 BETTE NI	LLOBRIG CHOLSON	IDA 15.	02.2006 4:34	
		7 GRACE MO 8 MATTHEW JO	STEL HANSSON	15. 15.	02.2006 4:34 02.2006 4:34	
Database: sakila		<u></u>		<u> ,,,, ,</u>		·····
Tables: actor		Double-click in the text viewer a	rea to ad	d (remove	e) vertical separat	or

To remove all correspondences, press the

Clear All button.

If you choose to import data to the newly created table, at this step you need to create necessary fields. Use the corresponded context menu item to manage fields [84].

New column	
Edit column	
📑 Drop column(s)	

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.5.9 CSV

Set correspondence between the target table fields and the source CSV file columns:

- select the **Delimiter** and **Quote** characters for CSV files using the corresponding drop-down lists of the **CSV Parameters** group;
- select a field of the target SQL Server table in the Fields list;
- proceed to the source grid viewer area: click a caption to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

The source file character set can be defined at the **Encoding** field.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

When you import data to a newly created table, the **Analyze** button appears. Use this button for automatic field creation.

If necessary, you can choose to **skip** a defined number of the source file rows using the **Skip lines** spin-edit.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

Files SALES.html FILM.xlsx DEPARTMENT.ods EMPLOYEE.docx PAYMENT.dbf COUNTRY.xls ACTOR.txt	< < < <	New fields New fields CHANG UPDAT OLD_S/ PERCEN NEW S/	C [INTEGER E_DATE [D/ ER_ID [VAR ALARY [VAR IT_CHANGE ALARY [VAR	X ATETIME] CHAR] (FLOAT] (FLOAT] CHAR]	Ma 1 2 3 4	Delimiter Quote Encoding Unicode	r 9 (UTF-8)	; 	> >
a) SALARY.csv a) CITY.odt c) RENTAL.xml CUSTOMER.mdb	~	Skip lin	e(s) 1	•				Analyze	
		1 EMP_NO 28 2	2 CHANGE_D/ 15.12.1992 (15.12.1992 (3 UPDATER_ID admin2 admin2	4 OLD_SALAF 20 000,00 98 000,00	5 PERCENT_C 10,00 8,06	6 NEW_SALA 22 000,00 105 899,98		
		4 5 11 12	15.12.1992 (15.12.1992 (15.12.1992 (15.12.1992 (15.12.1992 (admin2 admin2 admin2 admin2	90 000,00 95 000,00 70 000,00 48 000,00	8,33 8,16 7,50 7,50	97 499,97 102 749,91 75 250,00 51 600,00		
Database: sakila New table: salary		14 15 20	15.12.1992 (15.12.1992 (15.12.1992 (admin2 admin2 admin2	62 000,00 60 000,00 80 000,00	7,50 7,50 7,50	66 650,00 64 500,00 86 000,00		~

To remove all correspondences, press the **Clear All** button.

If you choose to import data to the newly created table, at this step you need to create necessary fields. Use the corresponded context menu item to manage fields [84].

Ŗ	New column
	Edit column
X	Drop column(s)

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Click the **Next** button to proceed to the <u>Setting base data formats</u> [50] step of the wizard.

2.1.5.10 HTML

Set correspondence between the target table fields and the source HTML file columns:

- select a field of the target SQL Server table in the New fields list;
- proceed to the source grid viewer area: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns, you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

If new table creation was selected at the <u>previous step</u> 27, then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

Rew column
Edit column
Drop column(s)

Table number

Select the number of the table for retrieving data from the dropdown menu. Can be used if the HTML file consists more than one table.

If necessary, you can choose to **skip** a defined number of the source file rows using the **Skip lines** spin-edit.

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Files		* -	×	×						
 SALES.html FILM.xlsx DEPARTMENT.ods EMPLOYEE.docx PAYMENT.dbf CUSTOMER.mdb COUNTRY.xls ACTOR.txt SALARY.csv CITY.odt 	<pre></pre>	New fields PO_NUM CUST_N SALES_F ORDER_ ORDER_ SHIP_DA DATE_N Skip line(s)	MBER [VAR IO [FLOAT] REP [INTEG STATUS [V DATE [VAR ATE [VARCI IEEDED [VA	ER] /ARCHAR] /ARCHAR] HAR] HAR] RCHAR]	Ma ^ 1 2 3 4 5 6 7	Table number				
RENTAL.xml	 Contraction 	1 PO_NUMBEF V91E0210 V92E0340 V92J1003 V93J2004 V93J3100 V92F3004 V93F3088	2 CUST_NO 1,004 1,010 1,010 1,010 1,012 1,012	3 SALES_REP 11 11 61 118 118 118 11 134	4 ORDER_STA shipped shipped shipped shipped shipped shipped shipped	5 ORDER_DA1 3/4/1991 12: 10/15/1992 1: 10/30/1993 1: 8/20/1993 1: 10/15/1992 1 8/27/1993 1:	6 SHIP_DATE 3/5/1991 12: 10/16/1992 12: 12/2/1993 1: 8/20/1993 1: 1/16/1993 1: 9/8/1993 12:	7 DATE_NEED null 10/17/1992 12 11/15/1993 1 11/15/1993 12 null null	8 PAID y y y y y y y y y y n	C 1 7 1 3 1 3 1 3 1
Database: sakila New table: sales		V93F2030	1,012	134	open	12/12/1993	null	null	У	1 ×

To remove all correspondences, press the **Clear All** button.

Click the **Next** button to proceed to the <u>Setting base data formats</u> [50] step of the wizard.

2.1.5.11 ODS

The **OpenDocument** format is used by Mobile Office, as well as other well-known desktop applications, such as OpenOffice, StarOffice and KOffice. **ODS** stands for **OpenDocument Spreadsheet** (*.ods).

Specify ranges in the grid for the target and source fields:

- select a field of the target SQL Server table in the New fields list;
- proceed to the sheet grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

If new table creation was selected at the <u>previous step</u> 27° , then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

📭 New column
Edit column
Drop column(s)

Table

Select the sheet for importing data from.

If necessary, you can choose to skip a defined number of the source file rows using the **Skip line(s)** spin-edit.

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Files Files.html FILM.xlsx DEPARTMENT	✓ Γ.ods		New fields			Ma ^ A	Table			~
EMPLOYEE.dc PAYMENT.db/ CUSTOMER.m COUNTRY.xls ACTOR.txt SALARY.csv CITY.odt RENTAL ympl	ocx f v idb v v		BUDGET BUDGET COCATIN PHONE	NENT (VA DEPT (INTEGE NO [INTEGER] ON [VARCH NO [VARCH e(s) 1	AR] HAR]	C v				
RENTAEXTII	*		A	В	С	D	E	F	G	^
			DEPT_NO	DEPARTMEN	HEAD_DEPT	MNGR_NO	BUDGET	LOCATION	PHONE_NO	
		2	000	Corporate H	null	105	1000000	Monterey	(408) 555-12	
			100	Sales and M	000	85	2000000	San Francis	(415) 555-1;	
			600	Engineering	000	2	1100000	Monterey	(408) 555-1;	
			900	Finance	000	46	400000	Monterey	(408) 555-1;	
			180	Marketing	100	null	1500000	San Francis	(415) 555-1;	
			620	Software Pr	600	null	1200000	Monterey	(408) 555-1;	
			621	Software De	620	null	400000	Monterey	(408) 555-1:	
Database:	sakila		622	Quality Assu	620	9	300000	Monterey	(408) 555-1:	
New table:	department		623	Customer St	620	15	650000	Monterey	(408) 555-1:	~

To remove a correspondence, select the field in the **New fields** list and press the **Clear** button.

To remove all correspondences, press the

🛛 🗮 Clear All button.

×

If your OpenDocument Spreadsheet file contains several sheets, you are able to set

different mapping for each sheet.

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.5.12 ODT

The **OpenDocument** format is used by Mobile Office, as well as other well known desktop applications such as OpenOffice, StarOffice and KOffice. **ODT** stands for **OpenDocument Text** (*.odt*).

Table

Select the sheet for importing data from.

Specify ranges in the grid for the target and source fields:

- select a field of the target SQL Server table in the New fields list;
- proceed to the Table grid: click a column to assign the column to the selected target table field;
- the selected column of the source file gets gray highlight;
- repeat the operation for all the fields you need to be included in the import process.

If the source file and the destination SQL Server table have the same order of columns,

you can use the **Auto Fill Columns** mode (default) to set correspondence between them automatically. If source file and destination SQL Server table have different

order of columns but identical names you can use the **Auto Fill by Captions** mode to set the correspondence based on name's identity.

Table

In case the file contains several tables select the require one from the dropdown menu.

The number of the column which correspondence is set for are displayed at the **Grid Column** column. You can use it for setting the fields correspondence as well.

If new table creation was selected at the <u>previous step</u> 27, then fields needed for the import procedure will be created automatically.

You can <u>manage destination table fields</u> [84] if needed. Use the corresponded context menu item to **New/Edit/Drop** field.

₽	New column
	Edit column
	Drop column(s)

If necessary, you can choose to skip a defined number of the source file rows using the **Skip line(s)** spin-edit.

Note: If table was properly created or already exists, it will be marked with a tick \checkmark . If an error occurs during table creation, this table will be marked with a cross \varkappa .

Files		* -	X	**			
SALES.html		Fields			Ma	7	Table
FILM.xlsx	~	rielus			1		
DEPARTMENT.ods				I	2		Table1 ~
EMPLOYEE.docx				INTI	2		
PAYMENT.dbf	~		_IQ [SIVIALL	TAMDI	3		
COUNTRY.xls	~		ate [TIMES	TAMF	4		
ACTOR.txt	~						
a) SALARY.csv		8					
CITY.odt	~				••••••		
RENTAL.xml	~	Skip lin	e(s) 1	•			
CUSTOMER.mdb							
		1	2	3	4		^
		city_id	city	country_id	last_update		_
		€ 1	A Corua (La	87	15.02.2006	1:45 4:45	
		2	Abu Dhahi	02	15.02.2006	4:43 (-45	
		4		60	15.02.2000	1.40	
		5	Adana	97	15.02.2006	4-45	
		6	Addis Abeba	31	15.02.2006	4:45	
		7	Aden	107	15.02.2006	4:45	j
Databasan askila		8	Adoni	44	15.02.2006	4:45	
Tablase: sakila		9	Ahmadnaga	44	15.02.2006	4:45	· · · · · · · · · · · · · · · · · · ·
Tables: city							

To remove a correspondence, select the field in the **Fields** list and press the **Clear** button.

To remove all correspondences, press the **Clear All** button.

If your OpenDocument Text file contains several tables, you are able to set different mapping for each table.

Click the **Next** button to proceed to the <u>Setting base data formats</u> of the wizard.

2.1.6 Step 5 - Setting base data formats

This step of the wizard provides a number of options for setting **base formats** for each source data file. The specified format should match the source data representation.

Files COUNTRY.xls CUSTOMER.mdt DEPARTMENT.c DISCOUNTS.odt EMPLOYEE.xlsx JOB.csv PAYMENT.xml PAYMENT.xml	b ods t	Separators Decimal , Thousand #10 Date . Time :	50	Constants Boolean true Boolean false Null values	True False Null
SALES.html		Date/Time form Date Time	hats dd.MM.yyyy h:mm		• •
Database: D Table T	IOMED ESTER.COUNTR [\]	Skip this step			

Separators

These options set the separator for the source file to ensure correct import. Make sure that they strongly correspond to the source file data.

Decimal

Set a character to delimit the decimal parts of the imported numbers.

Thousand

Set a character to separate the digit groups in the imported numbers.

Date

Set a character to separate the year, month and day parts of date values.

Time

Set a character to separate the hour, minute and second parts of time values.

Constants

Set the values as they are represented in the source file for correct recognition. **Boolean True**

Set one or more variants of TRUE value representation in the imported table, e.g. 'Yes' or '+'. Use a new line for each additional option.

Boolean False

Set one or more variants of FALSE value representation in the imported table, e.g. 'No' or '-'. Use a new line for each additional option.

Null Values

Set one or more variants of NULL value representation in the imported table, e.g. 'Null'.

Use a new line for each additional option.

Date/Time formats

Use these fields to set date and time formats so that they strongly correspond to the source file format for correct processing of data. For more information refer to the Format specifiers [52] page.

NOTE: Date and Time formats only reflect data format view, not separators. Separators must be set in the **Separators** group above.

Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the <u>next step</u> [55].

2.1.6.1 Format specifiers

The following format specifiers are supported in the format string:

Float/Integer format

0

Digit place holder. If the value being formatted has a digit in the position where the '0' appears in the format string, then that digit is copied to the output string. Otherwise, a '0' is stored in that position in the output string.

#

Digit placeholder. If the value being formatted has a digit in the position where the '#' appears in the format string, then that digit is copied to the output string. Otherwise, nothing is stored in that position in the output string.

•

Decimal point. The first '.' character in the format string determines the location of the decimal separator in the formatted value; any additional '.' characters are ignored.

/

Thousand separator. If the format string contains one or more ',' characters, the output will have thousand separators inserted between each group of three digits to the left of the decimal point. The placement and number of ',' characters in the format string does not affect the output, except to indicate that thousand separators are wanted.

E+

Scientific notation. If any of the strings 'E+', 'E-', 'e+', or 'e-' are contained in the format string, the number is formatted using scientific notation. A group of up to four '0' characters can immediately follow the 'E+', 'E-', 'e+', or 'e-' to determine the minimum number of digits in the exponent. The 'E+' and 'e+' formats cause a plus sign to be output for positive exponents and a minus sign to be output for negative exponents. The 'E-' and 'e-' formats output a sign character only for negative exponents.

Date/Time format

С

Displays the date using the format using the Short Date Format, followed by the time using the Long Time Format. The time is not displayed if the date-time value indicates midnight precisely.

d

Displays the day as a number without a leading zero (1-31).

dd

Displays the day as a number with a leading zero (01-31).

ddd

Displays the day as an abbreviation (Sun-Sat) using the strings of the Short Day Names.

dddd

Displays the day as a full name (Sunday-Saturday) using the strings of the Long Day Names.

ddddd

Displays the date using the Short Date Format.

ddddd

Displays the date using the Long Date Format.

е

Displays the year in the current period/era as a number without a leading zero (Japanese, Korean and Taiwanese locales only).

ee

Displays the year in the current period/era as a number with a leading zero (Japanese, Korean and Taiwanese locales only).

g

Displays the period/era as an abbreviation (Japanese and Taiwanese locales only).

gg

Displays the period/era as a full name. (Japanese and Taiwanese locales only).

m

Displays the month as a number without a leading zero (1-12). If the m specifier immediately follows an h or hh specifier, the minute rather than the month is displayed.

mm

Displays the month as a number with a leading zero (01-12). If the mm specifier immediately follows an h or hh specifier, the minute rather than the month is displayed.

mmm

Displays the month as an abbreviation (Jan-Dec) using the strings given of the Short Month Names.

mmmm

Displays the month as a full name (January-December) using the strings of the Long Month Names.

уу

Displays the year as a two-digit number (00-99).

уууу

Displays the year as a four-digit number (0000-9999).

h

Displays the hour without a leading zero (0-23).

hh

Displays the hour with a leading zero (00-23).

n

Displays the minute without a leading zero (0-59).

nn

Displays the minute with a leading zero (00-59).

S

Displays the second without a leading zero (0-59).

SS

Displays the second with a leading zero (00-59).

Z

Displays the millisecond without a leading zero (0-999).

zzz

Displays the millisecond with a leading zero (000-999).

t

Displays the time using the Short Time Format.

tt

Displays the time using the Long Time Format.

am/pm

Uses the 12-hour clock for the preceding h or hh specifier, and displays 'am' for any hour before noon, and 'pm' for any hour after noon. The am/pm specifier can use lower, upper, or mixed case, and the result is displayed accordingly.

a/p

Uses the 12-hour clock for the preceding h or hh specifier, and displays 'a' for any hour before noon, and 'p' for any hour after noon. The a/p specifier can use lower, upper, or mixed case, and the result is displayed accordingly.

ampm

Uses the 12-hour clock for the preceding h or hh specifier, and displays the contents of the TimeAMString global variable for any hour before noon, and the contents of the TimePMString global variable for any hour after noon.

/ Displays the date separator character using the Date Separator.

:

Displays the time separator character using the Time Separator.

'xx'/"xx"

Characters enclosed in single or double quotes are displayed as-is, and do not affect formatting.

2.1.7 Step 6 - Settings data formats for each field

This step of the wizard allows you to set **formats** for each imported field separately, in case additional formatting is required.

Select a field in the list and use the **Field Customization** group to adjust format options that will be applied to this field only: generator value, generator step, constant value, NULL value, default value, function, script, left/right quotation, quotation action, character case, character set.

Generator value

Use this field to set the initial value of the autoincrement field.

Generator step

Set the step of the autoincrement field. If it is 0 or if the field is of *Identity* one, then the value of the generator will be ignored.

Constant value

Use this field to set a constant value for the field.

Null value

Set the value which will be considered as NULL to set the default value.

Default value

Set the default value of the NULL field.



Function

Use the drop-down list to select one of the function return values that can be set in the field: Date, Time, Date&Time, Long File Name, Short File Name.

Script

Press the in button to add/edit the script in the **Script Editor**.

🐺 s	cript Editor				_		×
Fiel	ld Value For Test	ing					
% c i	urrency_id%	Piotr Tchaikovsky					
5	//to the	value of the	last variab	le.			~
6	//The exa	mple shows ho	w you can g	et			
7	//field v	alue, convert	it to a num	mber			_
8	//increme	nted by the n	umber value	of			
9	//the cur	rent month.					
10	//To run	the example i	nput " Fiel	d Value For Testi	.ng " in		
11	//text ed	itor and unco	mment the f	ollowing three li	.nes.		
12	//R = %cu	rrency_id%;					
13	//var D =	new Date();					
14	//k = par	seInt(R) + D.	getMonth()	+ 1;			
15	var re_pa	ttern = /(\w+	·)\s(\w+)/;				
16	var input	_string = %cv	<pre>irrency_id%;</pre>				
17	result =	input_string.	replace(re_	pattern, "\$2, \$1");		
							~
<						>	
	53: 17	Modified	Insert	Highlighting	Unicode (UC	CS-2)	
	Test Run			Ok		Cancel	

Use the **Script Editor** window to enter the script for the field processing. Here you can use all features of the MS JScript.

The picture above shows the example of the Jscript use for the field *Name* processing. The entered code converts the 'XXXX YYYY' string to the 'YYYY, XXXX' one, for example 'Piotr Tchaikovsky' -> 'Tchaikovsky, Piotr'.

If you want to test your code and see the result of its execution then enter the test field value in the **Field Value For Testing** box and click the **Test Run** button.

If the execution fails you see the message box with the description of an occurred mistake.

If the execution succeeds you see the message box with the result as it is shown on the picture below.

Informati	on 💌
1	Test run succeeded (Result - Tchaikovsky, Piotr)
	OK

Quotation

Left quotation

Set a character or a number of characters to denote quoting in the imported string.

Right quotation

Set a character or a number of characters to denote unquoting in the imported string.

Quotation action

You can select the *Add* item to add quotation marks to the imported string, the *Remove* item to remove all the quotation marks from the imported string, or the *None* item to save the original quotation marks.

String conversion

Char case

Set the case of the imported string. As Is keeps the original string unchanged, Upper sets the whole string to the upper case, Lower sets the whole string to the lower case, UpperFirst sets the first character of the string to the upper case, UpperFirstWord sets the first character of each word to the upper case.

Char set

Set the char set of the imported string to ANSI or OEM. As Is saves the original character set of the string.

The Replacements area allows you to set the text you need to be replaced during data

import into the selected field. Press the **Add Replacement...** button to specify a new replacement options using the **Add Replacement** dialog.

Define the text to replace and the value to replace with in the appeared dialog window. Check the **Ignore Case** option to make replacement case-insensitive.

Replacement	—
Text to find	
liman	
Replace with	
Ignore Case	
	OK Cancel

To remove a replacement, select it in the list and click the **Delete Replacement...** button.

Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the <u>next step</u> [59].

2.1.8 Step 7 - Specifying import mode

This step of the wizard allows you to define **the records processing mode** as *Insert All, Insert New, Update, Update or Insert, Delete, Delete or Insert* mode.

Import Mode

- **Insert all**: all records from the source file are inserted into the tables irrespective of whether any records exist in the destination table or not
- **Insert new**: already existing records are skipped, and new records are inserted into the destination table
- Update: all existing records are updated from the source file
- **Update or insert**: already existing records are updated and new records are inserted into the destination table
- Delete: already existing records are deleted
- **Delete or insert**: existing records are deleted and new records are inserted into the destination table

Here is an **example** of some import modes offered by Data Import utility:

	DB Ta	able		Source file				
:	ID 💌	DATA 🔻		4	А		В	
₽	1	а	1		1	с		
	2	b	2		2	d		
	4	f	3		3	e		

All import modes (except for the **Insert All** mode) are based on primary key values information. In order to perform import operations with these modes used you need to have matches between the source file primary key column(s) and the destination table primary key column(s).

Insert mode	Insert all	Insert new	Update
Result	ID △ ■ DATA ■ 1 c 1 a 2 b 2 d 3 e 4 f	ID ▼ DATA ▼ 1 a 2 b 3 e 4 f	ID ▼ DATA ▼ 1 c 2 d 4 f

60	Data Im	port for SQL	Server -	User's	Manual

Insert mode	Update or insert	Delete	Delete or insert
Result	ID ▼ DATA ▼ 1 c 2 d 3 e 4 f	∃ ID ▼ DATA ▼	ID ▼ DATA ▼ 3 e 4 f

It is applied to all other import modes, except for the **Insert all** mode. For all these modes (except for the **Insert all** mode) it is obligatory to select the primary key fields. This field (or fields) is used as key field to identify specific data in the target database.

The key columns for these operations are defined at the <u>Selecting key columns</u> of the wizard.

🐺 Data Import for SQL Serve	er				— C	x t
Step 7 of 11						- 1
Select import mode						
	Files		Import mode			
	customer.md	b	 Insert all 	⊖ Update	⊖ Delete	
			◯ Insert new	○ Update or insert	○ Delete or insert	
			Native mode kind			
Data Import			Single commands	🔾 Bulk i	nsert	
for SQL Server			✓ Keep nulls			
			Fire triggers			
			Bulk insert file name	C:\Program Files (x86)\EMS	\Data Import for SQL Server\t	te 🔒
			Bulk insert field terminator			
		3				
	Database:	AdventureWork				
	Tables:	DimCustomer	Skip this step			
Help Tools	•			<< Bac	k Next >>	Close

If the *Update* value is selected for Import Mode, then you need to specify the Primary Key field(s) that will serve for data identification of your source file with the data of the target table. The source file must contain the column(s) that will correspond to the Primary Key field of the target table. If the target table contains a record in which the value of the primary key field coincides with the value of the corresponding column of the source table, the data stored in this table record will be updated. You can specify the field(s) which will be used for identification at Step 7 [61] of the wizard. This field(s) will only serve for identification and will not be imported.

Native mode kind

The *Native* mode uses the *Single Commands* method that serves to generate and execute single SQL commands on the server, whereas the *Bulk Insert* mode uses native commands for a particular server: *BULK INSERT* for Microsoft® SQL Server^M.

W Keep Nulls

This option specifies that NULL columns should retain a null value during the bulk copy operation, rather than have any default values for the columns being inserted.

Fire Triggers

This option specifies that any insert triggers defined on the destination table will execute during the bulk copy operation.

Bulk Insert File Name

Type in or use the \bowtie button to specify the name and path to the bulk insert file name using the **Save As...** dialog. If *data_file* is a remotely stored file, specify the Universal Naming Convention (UNC) name.

Bulk Insert Field Terminator

Specify the field terminator to be used for char and varchar data files.

Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the <u>next step</u> of h.

2.1.9 Step 8 - Selecting key columns

This step of the wizard allows you to select the fields of the table to be used as the **key fields** for the import process.

This step is not available if the Insert all option has been selected on the previous step $\overline{59}$.

To select a field, you need to move it from the Available Columns list to the Selected

Columns list. Use the bit is buttons or drag-and-drop operations to move the fields from one list to another.



Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the <u>next step</u> $\boxed{62}$.

2.1.10 Step 9 - Setting common options

Using this step of the wizard you can set **final import options**.

Commit

Commit when done

Check this option to commit the transaction after all records are imported.

Commit after each ... records

These control allows you to define the number of records in each block to be supplemented with the COMMIT statement.

Rollback on error

Check this option to rollback the transaction if an error occurred.

Record Count

Import all records

Specifies that all records of the source file will be imported.

Import only ... record(s)

Specifies the number of records to be imported.

Import empty rows

If this option is checked then empty records are imported.

Auto trim values

Check this function to remove all leading and trailing white-space characters from all imported records.

Save Result SQL Script to File

This option allows you to save the result SQL script of the import operation to an external *.sql file on your disk drive.

Specify the script file name and select its location using the button which calls the **Save As...** dialog.

Files		Commit
📳 COUNTRY.xls	;	Commit when done
CUSTOMER.r	ndb	Commit after each 1000
🗋 DEPARTMEN	IT.ods	
E DISCOUNTS.	odt	Rollback on error
EMPLOYEE.x	lsx	
💾 JOB.csv		Record Count
PAYMENT.xm	ni 👘	Import all records
		© Import only 0 ♣ records
Ell M docx		Import empty rows
		I III Auto trim values
	:	Save result SQL script to file:
	-	C:\EMS\docs\COUNTRY.sql
Database:	DIOMED	Skin this step
Table	TESTER.COUNTR	

Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the <u>next step</u> 64.

2.1.11 Step 10 - Defining scripts

64

This step of the wizard allows you to define scripts to be **executed before and after import process** for each database.

Select a database to define the script for. Type the text of the script to be executed before the import operation in the **Before Import Script** area, the script to be executed after the import operation in the **After Import Script** area.

Select another database and add scripts for it, if necessary. By default, the After Import Script is not executed if import fails. If you need to execute it anyway, use the **Execute** after import script on import fail option at <u>Step 11</u> [65].

You can also save and load *Before Import* and *After Import* scripts using the corresponding **Save...** and **Load...** buttons.

	Before import script					
1 2	/*Specify the script that will executed BEFORE data import*/	^				
Ε.		~				
<		>				
	Load Save <u>C</u> lear					
	After import script					
1	/*Specify the script that will executed	^				
2	AFTER data import*/					
		<				
<		~				
<	Load Save <u>C</u> lear	~				

Skip this step

Check this option to skip the current step in the future. To edit the list of skipped steps, use the **Skipped Steps** group available in the <u>General</u> [69] section of the <u>Preferences</u> [68] dialog.

When you are done, press the **Next** button to proceed to the last step [65].

2.1.12 Step 11 - Start of data import process

65

This step of the wizard is intended to inform you that all import options have been set, and you can start the import process. If everything is correct, press the **Import** button to start the process. If you want to change something, you can return to any of the wizard steps using the **Back** button.

Continue if <u>before import</u> 64 script is executed with errors

Check this option to ignore errors in *Before Script* execution during import.

Execute after import script on import fail

Check this option to execute After import script, specified at <u>Step 10</u> [64], not depending on import result. Otherwise the script is not executed if import fails.

Max import threads

Set the value from 0 to 64 to adjust import performance.

🐺 Data Import for SQL Server	-		×
Step 11 of 11			
Click the 'Import' button to start data import process			
Image: Continue if before import script is executed with errors Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import script on import fail Max import threads Image: Continue if before import fail Max import threads Image: Continue if before import fail Max import threads Image: Continue if before import fail Max import threads <td< th=""><th></th><th></th><th></th></td<>			
Save log to file Clear log			
Help Tools -< Back	Import	Clos	e

Save log to file

This button calls the **Save file** dialog which allows you to save the on-screen log to a file.

Clear log

Pressing this button clears the on-screen log area, removing all messages.

If necessary, you can <u>save a template</u> [66] for future use.

Click the **Import** button to start the import process.

2.2 Using data import configuration files

Data Import for SQL Server allows you to store its configuration settings in external *.itm template files if you need to perform the data import process repeatedly.

You can load previously saved configuration settings to the application <u>wizard</u>^[23] if you need to make some changes before data comparison, or you can run it with the <u>console</u> <u>application</u>^[76] for quicker data import.

Data Import templates are saved/loaded within the **Save template options/Load template** dialog. To open this dialog, press the **Tools** button and select the **Save template/Load template** popup menu item.



File name

66

When saving template, specify the template file name and select its location using the \blacksquare button which calls the **Save Template As...** dialog.

Comment

The comment field of the template description.

🐺 Save Template Options	×
<u>F</u> ile name	
C:\EMS\docs\TestTemplate.itm	=
<u>C</u> omment	
	^
	~
Save Cancel <u>H</u> elp)

If you need to repeat data importing process with the same or similar settings later, it is reasonable to save all the settings you entered on the <u>Start of data import process</u> [65] step of the Wizard.

To quickly return to Step 1, use the **Restart Wizard** button, which is only available at the last step.

Please note that loading a template is only available at the <u>Getting started</u>^[24] and the

Setting connection properties 25 steps of the Wizard.

If necessary, you can **Save template** at any step of the wizard using the corresponding popup menu item of the **Tools** menu.

Save Template	
Save Template As	
🚰 Load Template	
Preferences	
Reopen Template	C:\EMS\docs\TestTemplate.itm
	C:\EMS\docs\DEMO.itm

See also: Working with wizard application 24 Setting program preferences 68

2.3 Setting program preferences

68

Data Import for SQL Server provides full customization of the program interface by setting various options within the **Preferences** dialog. This chapter is intended to inform you how to use all these options.



Setting general options

These options define general behavior of Data Import for SQL Server.

Skipped steps 71

Selecting steps to skip by default.

Selecting program language 73

This page allows you to select a language to be applied for your copy of Data Import for SQL Server.



Reset

Click this button to set all the program settings to default.

See also: <u>Working with wizard application</u>^[24] <u>Using data import configuration files</u> [66]

2.3.1 General

General

Theme

Select the main color theme for the application: Light or Dark.

Confirmation on exit

Enables/disables confirmation upon exiting the program.

Key columns reminder

Use this option to enable/disable prompts to define key columns.

Preferences				×	
🐨 🗹 General		General			
Skipped steps					
🛄 🛄 Languages	Theme	Light	\sim	(* restart required)	
	Confirmation on exit				
	Key columns reminder				
	Remember password				
	Show number of create	ed tables			
	Show number of mapp	ed columns			
	Use first row as caption	Use first row as caption fields			
	Keep options at steps				
	Allow JavaScript execu	tion			
	Show databases				
	Exclude autoincrement	t fields			
	Default min length for new	w string field		10	
	Default CSV delimiter			; ~	
	Default CSV quote			" ~	
Help Reset			OK	Cancel	

Remember password

Setting this option allows you to save passwords used for access to the databases automatically upon closing the application. Please note that checking this option saves the latest password used for connection to the database.

Show number of created tables

Use this option to allow/disallow appearance of the correspondent information window.

Show number of mapped columns

Displays the number of mapped fields on proceeding to $\frac{\text{Step 4}}{31}$.

Use first row as caption fields

Enable this option to use first rows as captions when mapping fields.

Keep options at steps

If this option is checked all your import settings will remain the same the next time the program is started.

Allow JavaScript execution

If this option is checked then the script entered on the <u>Step 6</u> is always executed.

Show databases

This option enables/disables the 'Select Database' drop-down list in 'Select Table' dialog at <u>Step 2</u> [27] of the wizard. If you check this option, you can select the database from the list, otherwise you must type the database name manually.

Exclude autoincrement fields

If this option is checked then autoincrement fields will not be mapped on <u>auto mapping</u> 31.

Default min length for new string field

Specify the default length of the new field in case you are importing data into a new table.

Default CSV delimiter

Specify the default delimiter for CSV files format.

Default CSV quote

Specify the default quottas for CSV files format.

See also:

Selecting program language T3 Skipped steps T1 Skipped steps T1

2.3.2 Skipped steps

Use this option group to define the Wizard application steps to be skipped.

Preferences		×
General	Skipped steps	
🔂 Skipped steps		
🛄 📮 Languages	Skip intermediate steps	
	Base Formats	
	Data Formats	
	🗹 Import Mode	
	Key Columns	
	Commit Options	
	⊠ Scripts	
Help Reset	OK Ca	ancel

Skip intermediate steps

This option determines the behavior of the *Next* and *Back* buttons. When this option is disabled, clicking the *Next* button leads to sequential passing through the list of imported objects. When this option is enabled, the steps checked in the **Skipped steps** group will be skipped.

I Base Formats Setting base data formats আি

I Data Formats Settings data formats for each field 55ী

Import Mode Specifying import mode

I Key Columns Selecting key columns িণী

Commit Options
Setting common options 62

Scripts Defining scripts

See also:

<u>Setting general options</u> ि । <u>Languages</u> 7ि ।

2.3.3 Languages

The **Languages** page is provided for managing Data Import localization files.

You can create your own *.*Ing* files similar to those available in the %program_directory% \Languages folder, add them to the list of available languages and set the new language as the program interface language.

The table lists all the languages available for localization and the corresponding *. Ing files.

Preferences		×		
General		Languages		
Languages	Language	File Name		
	Default	[None]		
	None	C:\Program Files (x86)\EMS\Data Import for SQL Server\Lan		
	French	C:\Program Files (x86)\EMS\Data Import for SQL Server\Lan		
	German	C:\Program Files (x86)\EMS\Data Import for SQL Server\Lan		
	Russian	C:\Program Files (x86)\EMS\Data Import for SQL Server\Lan		
	Language D	irectory		
	C:\Program	n Files (x86)\EMS\Data Import for SQL Server\Languages\		
Help Reset		OK Cancel		

Language Directory

Use the ellipsis button to specify the directory where the *.*lng* files are stored by default.

See also:

<u>Setting general options</u> ត្រាំ <u>Skipped steps</u> [71]



3 Console application

Additionally to **the GUI version** which is implemented in the form of a wizard application, the installation package of Data Import for SQL Server includes **the console version** which is intended for being run from Windows command line with a template file name used as the execution parameter.

C:\Program Files\EMS\Data Import for SQL Server>MSImportC.exe_

Data Import for SQL Server command line utility is intended for quick and powerful data import to SQL Server tables.

Working with console application 77 Configuration file format 79

See also: Wizard Application 23

3.1 Working with console application

All the import options are set in **template** (*.*itm*) files. A template can be also used in the **Console version** of Data Import for SQL Server.

To create a template file, follow the instructions below:

- start Data Import Application wizard [23];
- set all the required options in all steps of the wizard;
- test the import process at the last step;
- <u>save all import options in the template</u> [66].

The easiest way to start Data Import for SQL Server console application is to double-click the generated **.itm* template. The other way is to enter the command line and type the appropriate command.

<u>Usage:</u>

77

<path to Data Import for SQL Server console application>\MsImportC.exe TemplateFile [datafile=<source file name>] [-B] [-LOG]

datafile=<filename1>;<filename2>;<filename3>

Indicates the source file(s) for data import. The values you specify replace the names of the files in the template. The number of files should strongly correspond to the number of files in the template. Multiple files are separated with a semicolon.

TemplateFile

Stands for the **.itm* template file to be used as the console version execution parameter

[-B]

Use this parameter in the command line to run the console version of Data Import for SQL Server in the background mode.

Example:

"C:\Program Files\EMS\Data Import for SQL Server\MsImportC.exe" "C: \EMS\DataImport\Template1.itm" -B -datafile=test150283.xls

[-LOG]

Console application also generates the **.log* file that contains information about the import operation completion.

Example:

"C:\Program Files\EMS\Data Import for SQL Server\MsImportC.exe" "C: \EMS\DataImport\Template1.itm" -LOG="C:\EMS\DataImport\logfile.log"

Note: The following exit codes can be returned by Data Import for SQL Server to the operating system after performing the latest task:

- 0 successful completion;
- 1 error(s) occurred during task performing;
- 2 fatal error occurred. The task was not performed.

See also:

Working with wizard application 24 Configuration file format 79

3.2 Configuration file format

The configuration file is divided into several sections.

[Connection]

79

This section contains parameters for connecting to the server: *Host*, *Login*, *Password* (encrypted). These parameters are obligatory.

[PREFERENCES]

This section contains the general settings of the utility.

ImportToViews 1 - enabled, 0 - disabled

The following sections are unique for each imported file and contain the appropriate postfix (*FILE_00, FILE_01, FILE_02,* etc.) In these sections the import options for each particular file are stored.

[FILE_00]

In the main file section the following parameters are used: *Database* (destination database name), *Table* (destination table), *FileName* (the source file name)

ImportType

Indicates the format of the source file: 0 stands for MS Excel, 1 for MS Access, 2 - DBF, 3 - TXT, 4 - CSV, 5 - XML, 6 - MS Excel 2007, 7 - MS Word 2007, 8 - HTML, 9 - XML Document, 10 - ODS, 11 - ODT

The next section is specific to the file format and is named correspondingly, e.g. $[FILE_00_XLS]$. In this section the following specific file type options are set:

[FILE_00_XLS]

SkipRows, *SkipCols* - the number of rows and columns in the source file to be skipped on import.

[FILE_00_Access]

SourceType

This option indicates the Access source type - Table or query, 0 stands for table, and 1 for query.

TableName and query - these options set the source Access table name to import from if source type is 0 and the source query text if the source type is 1.

[FILE_00_TXT]

SkipRows - the number of rows in the source file to be skipped on import.

[FILE_00_CSV]

SkipRows - the number of rows in the source file to be skipped on import. *CSVDelimiter*, *CSVRightQuot*, *CSVLeftQuot* - these options are used on reading the source CSV file, they store options for delimiting columns and the quotation marks.

The next section is [FILE_XX_MAP].

It is also specific to the file type, but is obligatory for all file types. In this section correspondence between the source file columns and the destination table fields is set.

If the source file is an *Excel* file, then the map is set in the following format: <DB_FieldName>=CellIndex.

Use semicolon to separate multiple cells. You can define an Excel row or column as a range of cells, e.g.

Field1=A1;A4;A6-A9;B1-F1.

If the source file is an *Access* or *DBF* file, then the mapping is set in the following format: <DB_FieldName>=<Source_Field_Name>.

If the source file is a *TXT* file, the mapping looks in the following way: <DB FieldName>=<Position>;<Size>.

This means that you should provide the starting position and the size of the source file column for each destination field.

To set mapping for a *CSV* file, provide a column number for each destination field, e.g. Field1=1 Field2=4 etc.

The properties that are set in sections [FILE_XX_BASE_FORMATS] and [FILE_XX_IMPORT_OPTIONS] correspond to those set on the 'Base Formats' and the 'Options' tabs.

The values that stand for *BOOLEAN TRUE* and *BOOLEAN FALSE* values are set in sections [FILE_XX_BOOLEAN_TRUE] and [FILE_XX_BOOLEAN_FALSE].

The NULL values are set in section [FILE_XX_NULL_VALUES]

Data formats that are set for each destination field separately are stored in sections named in the following way:

[FILE_XX_DATA_FORMATS_<FIELD_NAME>],

e.g. *FILE_00_DATA_FORMATS_FIELD1*. The properties within these sections also correspond to the properties set on the 'Data Formats' tab of the <u>Settings data formats</u> step for each field.

[FILE_00_IMPORT_OPTIONS]

This section contains parameters that define import options specified on Steps 6-9 of the wizard.

CommitAfterDone 1 - enabled, 0 - disabled

CommitRecCount The number of records in each block to be supplemented with the COMMIT statement.

ImportRecCount 1 - enabled, 0 - disabled

ImportAllRows 1 - enabled, 0 - disabled

SaveResultSQL

1 - enabled, 0 - disabled ResultSQLFile The path to the result **.sql* file. ImportKind 0 - Universal Mode, 1 - Native Mode TruncateLongString 1 - enabled, 0 - disabled RollbackIfError 1 - enabled, 0 - disabled ImportMode 0 - Insert All, 1 - Insert New, 2 - Update, 3 - Update or Insert, 4 - Delete, 5 - Delete or Insert ImportAddType 1 - enabled, 0 - disabled *Allow Duplicates* 1 - enabled, 0 - disabled

NativeModeKind 0 - Single Commands, 1 - Batch insert

[#General#]

This section stores information about the product name and its major version.

See also:

Working with console application 77



4 Appendix

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4.1 Supported file formats

MS Excel 97-2003

The most popular e-table format used by Microsoft® Excel (*.*xls*). The result files are fully compatible with Microsoft® Excel versions 97-2000, 2003 and XP.

MS Access

File of Microsoft® Access format (*.*mdb*, *.*accdb*) with an ADO connection used.

ITML

Hyper Text Markup Language file format (*.*html*, *.*htm*), complete compatibility with HTML 4.0 specification.

Text file

Plain text file format (*.txt).

CSV file

Comma-Separated Value file format (*.csv).

Note: all the text formats including *Text file*, *CSV* are usually used as working or interchange formats.

🖲 XML

A markup language for documents containing structured information (*.xml).

OBF

Database file format (*.*dbf*)used by dBASE and a number of xBASE applications.

MS Excel

The contemporary e-table format used by Microsoft Excel (*.*xlsx*). The result files are fully compatible with Microsoft Excel 2007.

MS Word

The contemporary text processing format used by Microsoft® Word (*.*docx*). The result files are fully compatible with Microsoft® Word 2007.

ODF Spreadsheets

OASIS Open Document Format for Office Applications - open document file format for spreadsheets (*.ods) used by a number of applications including OpenOffice.org and KOffice.

ODF Text

OASIS Open Document Format for Office Applications - open document file format for word processing (*.odt) documents used by a number of applications including OpenOffice.org and KOffice.

4.2 Add/Edit field

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When you import data with destination table creation, you can manage this table's fields.

Use the context menu to New/Edit/Drop a colimn.

New column
Edit column
📑 Drop column(s)

Selecting **New column** or **Edit column** context menu item opens the field editor that allows you to view/edit the properties of the destination table fields.

🐺 Edit Field			×
Column		NAME	
Туре		varchar	-
Size		50	×.
Scale		0	×
Default value			
Seed	1	Increment 1	×
Field flags		Is Row Guid	
Identity		Not for replication	
		OK Canc	el

Use the **Column** edit box to set the field name. Note that the name of the field must be unique among all the field names in the table.

The **Type** tab defines the type of the field data.

Size

Defines the size of the field value.

Scale

For *numeric* and *decimal* types you need to define the number of decimal to the right of the decimal point.

Default value

Define this option value if you need inserted records to get specified value.

Field flags Seed

Specify the value used for the first row that is loaded into the table.

Increment

Specify the value added to the identity value of the previous row that is loaded.

Not NULL

Check this option to prevent the entry of NULL or unknown values in column.

Is Row Guid

This option specifies that the *ROWGUIDCOL* property is added to the column. *ROWGUIDCOL* indicates that the column is a row GUID column.

Identity

This option specifies that the new column is an identity column.

Not for replication

This option allows you to specify that the Identity property should not be enabled when a replication agent modifies the table that contains the identity column.

4.3 Add/Edit Range

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To set a range of data to be imported from the file, use the **Add range** button. To remove a range, use the **Delete range** button.

To edit an existing range, double-click it in the **Ranges** list. The **Range** dialog allows you to set a number of options for the range being edited.

Range	×				
Range Type Col	∽ Col A ∽				
Start From Data Starting Start Row 1	Finish While Data Exists Finish Row 				
Sheet O Default Sheet					
Custom Sheet					
O Sheet Number	\sim				
Sheet Name	heet 1 🗸 🗸				
OK Cancel					

Select **Range Type** from the corresponding drop-down list. Then specify the *column*, *row* or *cell* number whose range is to be defined.

Start and **Finish** section allows you to set the range of the values to be imported from the specified row or column.

Use the **I** From Data Starting and **I** While Data Exist options to automatically define the range of the values.

Use **Sheet** section to define the location of the row/column for which the row was specified.

You can select either **O Default sheet**, or **O Custom Sheet**.

For custom sheet you need to select **Sheet Number** or **Sheet Name** from the appropriate drop-down list.

Note: If Cell was set as Range Type, the only thing you can specify at this dialog is its number.

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