

SQL Manager.net™
EMS® Software Development



Advanced Data Import for RAD Studio VCL User's Manual

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Part



1 Welcome to Advanced Data Import for RAD Studio VCL!

1.1 Overview

EMS Advanced Data Import for RAD Studio VCL is a component that allows you to import data from files of the most popular data formats to the database. You can import data from MS Excel, MS Access, DBF, XML, TXT, CSV, ODF, and HTML. There will be no need to waste your time on tiresome data conversion - Advanced Data Import for RAD Studio VCL will do the task quickly, irrespective of the source data format.

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

Key features

- Data import from the most popular data formats: MS Excel, MS Access, DBF, XML, TXT, CSV, OpenDocument format (ODS, ODT), and HTML.
- Import of Unicode data (UTF-8, UTF-16/UCS-2, UTF-32/UCS-4). Automatic detection and manual preset of text encoding for imported data.
- Powerful component and property editors which admit to setting many import parameters at the design-time easily.
- High productivity even on slow computers.
- Adjustable parameters for each type of import.
- 100% native Delphi code for MS Excel, DBF, TXT, CSV - no additional libraries or programs needed for the components to work; OLE, DDE, BDE, etc. are not required either.
- Detailed help system and a demo application for quicker mastering the product.
- Delphi 2010, XE-XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney, 11 Alexandria, 12 Athens and C++ Builder 2010, XE-XE8, 10 Seattle, 10.1 Berlin, 10.2 Tokyo, 10.3 Rio, 10.4 Sydney, 11 Alexandria, 12 Athens support.

Product information

Homepage <https://sqlmanager.net/products/tools/advancedimport>
Support Ticket System <https://www.sqlmanager.net/support>
Register on-line <https://sqlmanager.net/products/tools/advancedimport/buy>

1.2 What's new

Version**Advanced Data Import for RAD Studio VCL 3.15****Release date**

November 24, 2023

What's new in Advanced Data Import for RAD Studio VCL?

1. Support for RAD Studio 12 Athens implemented.
2. The resource STRINGTABLE defined as language independent.
3. Fixed import of date values in range 1900-01-01 .. 1900-02-28 from XLSX files.
4. Fixed import of XML file without header.
5. Fixed import of data from different sheets for XLSX format.
6. Fixed paths for 32-bit Clang compiler in RAD Studio options.

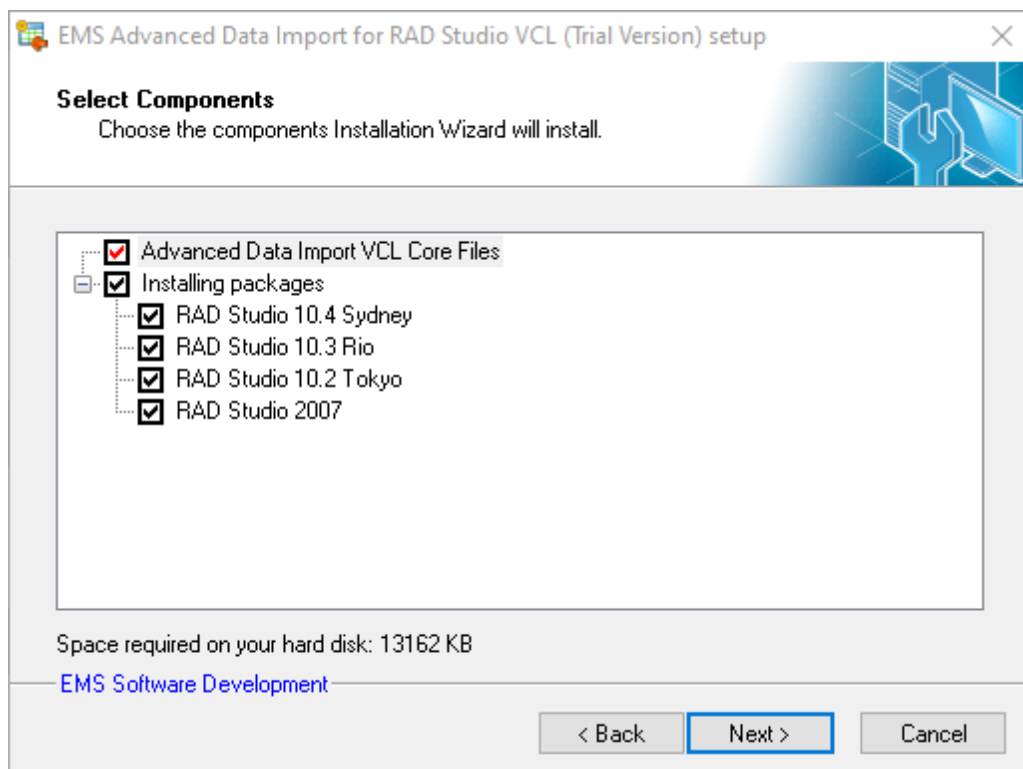
See also:[Version history](#)

1.3 Installation

To install the **trial version** of **Advanced Data Import for RAD Studio VCL** onto your system:

- download the distribution package of **Advanced Data Import for RAD Studio VCL** from the [download page](#) available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

During the installation you will need to select the packages to install and set options that will take effect **only for installed IDE**:



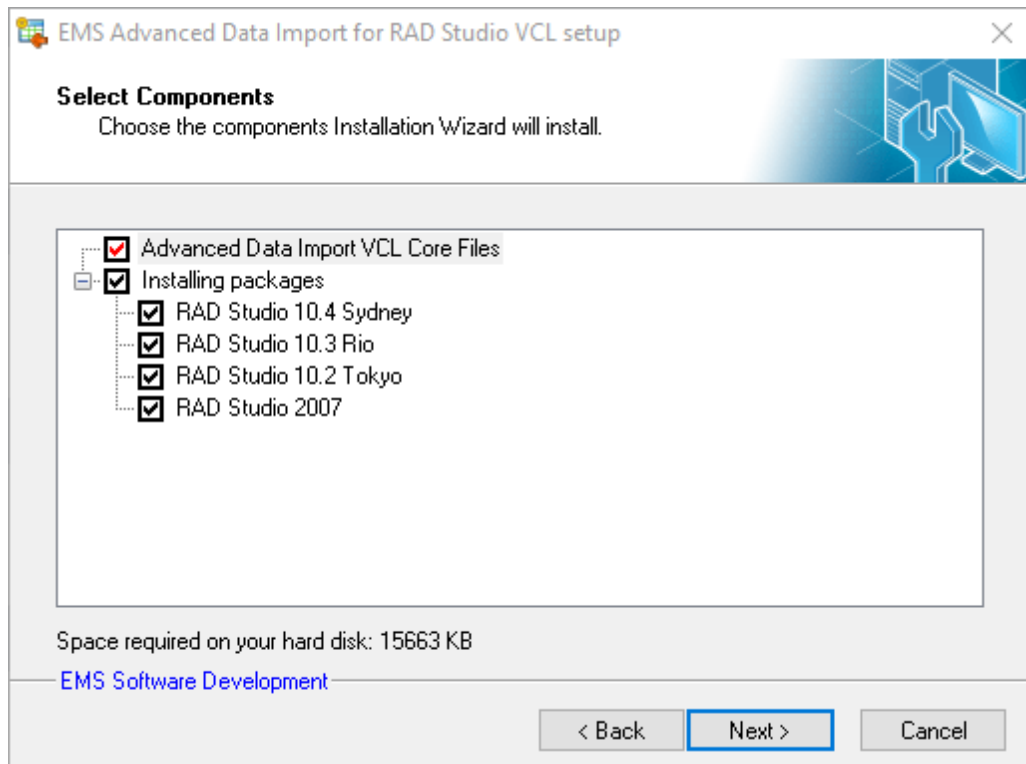
When you are done, you can finish installation of the **trial version** of **Advanced Data Import for RAD Studio VCL**.

To install the **full version** of **Advanced Data Import for RAD Studio VCL** onto your system:

- download the distribution package of **Advanced Data Import for RAD Studio VCL** from the [download page](#) available at our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close all currently opened Delphi and/or C++ Builder IDEs, if any;
- run the executable setup file from the local directory and follow the instructions of the installation wizard.

Enter valid registration information in the appropriate boxes: **Registration name** and **Registration Key**. See [details](#) on getting this information.

During the installation you will need to select the packages to install and set options that will take effect **only for installed IDE**:



When you are done, you can finish installation of the **full version** of **Advanced Data Import for RAD Studio VCL**.

Note: If the above given instructions have been insufficient for successful installation of the component suite, please refer to the *readme.1st* file distributed with the product.

1.4 Registration

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

Digital River 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, Check or Cash.

If you want to review your order information, or you have questions about ordering or payments please visit our [Customer Care Center](#), provided by **Digital River**.

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 or passwords. Also you will receive a copy of registration keys or passwords 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.

Product distribution	MyCommerce/Digital River
Advanced Data Import for RAD Studio VCL Full version (with sources) + 1-Year Maintenance*	Register Now!
Advanced Data Import for RAD Studio VCL Full version (with sources) + 2-Year Maintenance*	
Advanced Data Import for RAD Studio VCL Full version (with sources) + 3-Year Maintenance*	
Advanced Data Import for RAD Studio VCL Trial version	Download Now!

* **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

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 on-line, speed-through Maintenance Reinstatement/Renewal Interface. After reinitiating/renewal you will receive a confirmation e-mail with all the necessary information.

1.5 How to register Advanced Data Import

To register your newly purchased copy of **EMS Advanced Data Import for RAD Studio VCL**, perform the following steps:

- receive the notification letter from **Digital River** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter while [installing](#) the **full version** of the product.

See also:

[Registration](#)

1.6 Version history

Product name	Version	Release date
Advanced Data Import for RAD Studio VCL	Version 3.14	December 26, 2022
Advanced Data Import for RAD Studio VCL	Version 3.13	September 28, 2021
Advanced Data Import for RAD Studio VCL	Version 3.12	June 22, 2020
Advanced Data Import for RAD Studio VCL	Version 3.11	December 13, 2018
Advanced Data Import for RAD Studio VCL	Version 3.10.1	April 20, 2017
Advanced Data Import for RAD Studio VCL	Version 3.10	March 7, 2016
Advanced Data Import for RAD Studio VCL	Version 3.9.6	May 17, 2016
Advanced Data Import for RAD Studio VCL	Version 3.9.4	June 5, 2015
Advanced Data Import for RAD Studio VCL	Version 3.9.3	April 8, 2015
Advanced Data Import for RAD Studio VCL	Version 3.9.2	October 3, 2014
Advanced Data Import for RAD Studio VCL	Version 3.9	October 29, 2013
Advanced Data Import for RAD Studio VCL	Version 3.8	May 16, 2013
Advanced Data Import for RAD Studio VCL	Version 3.7	October 12, 2012
Advanced Data Import for RAD Studio VCL	Version 3.6	March 30, 2012
Advanced Data Import for RAD Studio VCL	Version 3.5	December 15, 2011
Advanced Data Import for RAD Studio VCL	Version 3.4	October 10, 2011
Advanced Data Import for RAD Studio VCL	Version 3.3	November 11, 2010
Advanced Data Import for RAD Studio VCL	Version 3.2	December 11, 2009
Advanced Data Import for RAD Studio VCL	Version 3.1	January 19, 2009
Advanced Data Import for RAD Studio VCL	Version 3.0	November 19, 2007

Full version history is available at <http://www.sqlmanager.net/products/tools/advancedimport/news>

Version 3.14

1. XPath and DataLocation properties of the TQImport3XMLDoc component are now saved to the configuration file.
2. The error messages are provided with related dataset column name now.
3. 'Out of memory' error on loading large XML files has been resolved.
4. Memory consumption of the TQImport3XLS component has been optimized.
5. TQImport3DBF caused 'Out of list index range' error in case of gaps in mapped fields. Fixed now.
6. The ImportToCSV method of TQImport3 class is marked as deprecated now.
7. TQImport3ODSEditor, TQImport3ODTEditor, TQImport3XlsxEditor: SheetName was dependent on FileName property. Now it's been set separately.
8. The check for Access database password protection fixed.
9. The parsing of XML files with FIELDS tag only has been fixed.
10. The error occurred on importing ODS files with empty column. Fixed now.
11. Fixed string encoding error for Windows 64-bit platform applications.
12. Other minor fixes and improvements.

Version 3.13

1. Support for RAD Studio 11 Alexandria implemented.
2. End of support for RAD Studio 2009 and older versions.
3. The Range out of bounds error fixed in TfmQImport3Editor editor on calling a Map... menu item.
4. Lines from CSV files were sometimes mixed up. Fixed now.
5. Encoding for XML package files added to the TQImport3Wizard dialog.

6. A ReadToEnd method added to the TQImport3Encoding class to read and encode large files at better performance.
7. Drawing issues occurred on vertical scrolling in TQImport3TXTViewer. Fixed now.
8. An error occurred when reading XML data packet with UTF-8-BOM encoding with TEncodedReadStream.ReadToEnd method. Fixed now.
9. XML Access parser improved to view data in a grid.
10. TQImport3ASCII in text mode did not correctly process control characters, such as TAB. Fixed now.
11. Images are now imported correctly from XML files.
12. Other fixes and improvements.

Version 3.12

1. Implemented support for RAD Studio 10.4 Sydney.
2. Improved preview for XLSX files in TQImport3Wizard component.
3. The error occurred on cross-mapping columns in XLSX. Fixed now.
4. The interface froze if the TQImport3Xlsx.SheetName property contained an erroneous sheet name. Fixed now.
5. Mapping was not always displayed correctly in TfmQImport3TXTEditor. Fixed now.
6. Now the TQImport3Xlsx.Execute method returns True on successful import and False if it fails.
7. The error occurred on using two digits for year format. Fixed now.
8. Fixed error of defining the end of data stream in TQImport3Xlsx.
9. XML files with empty tags were previewed incorrectly. Fixed now.
10. Row values in OnUserDefinedImport event handler were not processed correctly for DateTime columns. Fixed now.
11. Now XLSX file data can be imported even if it's opened in the MS Excel app.
12. Encoding for XML SOAP files was not defined correctly. Fixed now.
13. Other fixes and improvements.

Version 3.11

1. Implemented support for RAD Studio 10.3 Rio.
2. The OnImportCheckField event handler added to the TQImport3Wizard component.
3. Import into BLOB columns implemented.
4. New SAX XML parser implemented to improve processing of big files.
5. XLS. Import supports 1904 date system now.
6. The ColCount property of the TXlsxWorkSheet class is calculated correctly now.
7. Content of JScript editor was not saved to a template file. Fixed now.
8. JScript didn't save mapping to a selected field. Fixed now.
9. Import settings were not saved if AutoSaveTemplate and CloseAfterImport properties were set to True. Fixed now.
10. Null values were not replaced correctly with custom values. Fixed now.
11. Now empty strings ("") are stored correctly in the configuration file.
12. Many other improvements and fixes.

Version 3.10.1

1. Support of RAD Studio 10.2 Tokyo added.
2. The possibility to set topics of help file in the TQExport4Dialog.HelpContext or TQExport4Dialog.HelpTopic properties added.
3. There were issues with TQImport3Wizard controls layout when large system fonts used. Fixed now.
4. Some data was not displayed at the 'Data Formats' tab of the TQImport3Wizard dialog after loading template. Fixed now.
5. Some other small bug fixes.

Version 3.10

1. Support for 64-bit Windows target platform has been added.
2. Drag-and-drop for fields mapping has been implemented.
3. Processing of big XLSX, DOCX, ODS and ODT files has been considerably improved.
4. Possibility of importing the latest MS Access file versions has been added.
5. Now it's possible to import data from XLSX files containing unicode symbols in names.
6. HelpFile property has been added to the TQImport3Wizard component. It allows assigning a custom help file name for the application using TQImport3Wizard component.
7. Added possibility to set the import format automatically in the TQImport3Wizard component after loading the import file.
8. The biMinimize and biMaximize border icons have been added to the TQImport3WizardF form.
9. When the AutoLoadTemplate property is set to True and the template file is loaded from code, the boolean values were not shown in Wizard editors. Fixed now.
10. TQImport3XLS and TQImport3Xlsx components were unable to read XLS and XLSX files with charts. Fixed now.
11. If the last column of CSV file contained no value the column didn't appear in the map dialog window. Fixed now.
12. If CSV file contained less than 20 rows the last row didn't appear in the map dialog window. Fixed now.
13. If CSV contained CRLF symbols data was not read correctly. Fixed now.
14. If the CloseAfterImport property was set to True it always closed the wizard independently of the ConfirmOnCancel property state. Fixed now.
15. If the 'Close wizard after import' option was enabled, the progress bar wasn't displayed. Fixed now.
16. Other minor improvements and bugfixes.

Version 3.9.6

1. Added support of RAD Studio 10.1 Berlin
2. The OnCancelSetFieldValue and OnSetFieldValueAction event handlers were added to cancel assigning of field values and support adding any code to control assigning of field values.
3. The ImportEmptyRows property couldn't be set in component wizard. Fixed now.
4. The resource file identifiers conflicted with the Report Builder by Digital Metaphors component suite. Fixed now.
5. Other minor bug-fixes and improvements.

Version 3.9.4

1. RAD Studio XE8 support added.

Version 3.9.3

1. Added support of RAD Studio XE7.
2. Now it is possible to hide invisible fields of the binded Dataset or DBGrid in component editors. "SkipInvisibleColumns" property was implemented in TQImport3 class.
3. Now it is possible to hide invisible fields of the binded dataset or DBGrid in TQImport3Wizard component. "SkipInvisibleColumns" property was implemented in TQImport3Wizard class.
4. Now the active import component is passed as "Sender" parameter into some TQImport3Wizard events that are triggered during import process. This should simplify obtaining extra info about import process in event handlers.
5. New error event "OnError" was added into import components. This event is triggered

with exceptions on any stages of the import process and provides an info about the current stage as well as an error message text.

6. Some bug fixes.

Version 3.9.2

1. Added support of RAD Studio XE7.
2. Now it is possible to hide invisible fields of the binded Dataset or DBGrid in component editors. "SkipInvisibleColumns" property was implemented in TQImport3 class.
3. Now it is possible to hide invisible fields of the binded dataset or DBGrid in TQImport3Wizard component. "SkipInvisibleColumns" property was implemented in TQImport3Wizard class.
4. Now the active import component is passed as "Sender" parameter into some TQImport3Wizard events that are triggered during import process. This should simplify obtaining extra info about import process in event handlers.
5. New error event "OnError" was added into import components. This event is triggered with exceptions on any stages of the import process and provides an info about the current stage as well as an error message text.
6. Some bug fixes.

Version 3.9

1. Added support of RAD Studio XE5.
2. QImport3XML. Added import from MS Access XML format files.
3. Qimport3Docx. Added BLOB fields import.
4. Other improvements and bug fixes.

Version 3.8

1. Added support of Embarcadero RAD Studio XE4.
2. Each value of the imported field can be processed using expressions in MS JScript. To the TQImportFieldFormat class the TqiStrings Script property containing the script code is added. To the TQImport3 basic class the ScriptEngine property of TQImport3ScriptEngine type is added. This property contains a reference to the component that will execute a script. The TQImport3ScriptEngine is the basic type, it sets the program logic and located in the QImport3ScriptEngine.pas module. It inherited the TQImport3JscriptEngine class, which works with the TScriptControl object from the QImport3MSScriptControlTLB.pas module in the context of MS JScript. You can also write your successor of the TQImport3ScriptEngine class to implement random script syntax. For TQImport3JscriptEngine the scrip execution result corresponds to the last variable value. If you want to use a filed value in the script, you need to specify the field name enclosed in percent signs -% in TQImportFieldFormat.Script. Below there is an example showing how to get a field value, convert it to number and increase on a numeric value of the current month:
 3. // FileName means a filed name
 4. R = %FileName%;
 5. var D = New Date();
 6. k = parseInt(R) + D.getMonth() + 1;
7. If a script for the field is set, it will have the highest priority in the field processing. I.e. the generator will not start, if it is set, etc.
8. Now, instead of the imported field value the following values can be substituted: current date, current time, current date and time, full name of the imported file, short name of the imported file. To the TQImportFieldFormat class the Functions property of TQImportFunctions = (ifNone, ifDate, ifTime, ifDateTime, ifLongFileName, ifShortFileName) type is added;
9. [QImport3HTML](#). Data from the files was imported. Fixed now.

- 10.If format masks correspond to system masks, they were not saved in the dfm file.
Fixed now.
- 11.[QImport3Xlsx](#). The InlineStr cell values were not imported. Fixed now.
- 12.[QImport3ASCII](#). Some errors occurred while working with CSV files. Fixed now.
- 13.Other improvements and bug fixes.

Version 3.7

- 1.Added support of RAD Studio XE3.
- 2.Reading multi-byte encoding files caused data corruption. Fixed now.
- 3.[QImport3Xlsx](#). When importing some files, an Access Violation error occurred. Fixed now.
- 4.[QImport3Xlsx](#). When reading data in cells containing non-printable characters, an error occurred. Fixed now.
- 5.[QImport3Xlsx](#). The Date/Time datatypes were displayed incorrectly. Fixed now.
- 6.[QImport3Wizard](#). Import from CSV. When setting a MAP property, file data contained line break characters in the field values were displayed incorrectly. Fixed now.
- 7.[QImport3Wizard](#). When importing from CSV and TXT, incorrect default encoding applied. Fixed now.
- 8.[QImport3Wizard](#). Import from TXT. When loading a template in the MAP property settings, values of the block position and size were reversed. Fixed now.
- 9.[QImport3Wizard](#). Even if the import process is fully complete, ProgressBar did not show 100% completion for some types of import. Fixed now.
- 10.Other improvements and bugfixes.

Version 3.6

- 1.Added the "Functions" property (TQImportFunctions = (ifNone, ifDate, ifTime, ifDateTime, ifLongFileName, ifShortFileName) to the TQImportFieldFormat class. This property allows to replace the imported value to the corresponding current date, current time, current date and time, the full name of the imported file, the short name of the imported file.
- 2.QImport3Xlsx. Restored the compatibility with the old-format config-file.
- 3.QImport3Xlsx. When setting a custom data format for numbers, the date format was applied to the values. Fixed now.
- 4.ADO_QImport3Access. The Blob data were not imported. Fixed now.
- 5.QImport3Xlsx. The first empty cell caused stopping the data import from the column. Fixed now.
- 6.QImport3Xlsx. When specifying column X1 in the Map, the data were imported from column A1. Fixed now.
- 7.QImport3Xlsx. If the date data format did not match the system format, an error occurred. Fixed now.
- 8.QImport3Xls. The absence of data in a column or in a row caused the error. Fixed now.
- 9.Other improvements and bugfixes.

Version 3.5

1. TQImport3XML. Unicode support is added.
2. TQImport3Xlsx. The parsing logic of the Map property has been changed, now it is possible to specify the following parameters:
 - range of cells in the row or column - A1-F1, B1-B12, C1-ROWFINISH, K4-COLFINISH;
 - sheet name - [Sheet2]B1-B6;
 - sheet number - [:3]D4-D9;
 - several cellsets for the same field - [Sheet2]C12-C2[:1]A1-A8;
3. Added the AutoTrimValue property. When AutoTrimValue = True, the Trim function will be applied to each string value.

4. Added the ImportEmptyRows property. When ImportEmptyRows = False, the empty strings will not be imported
5. When importing from Excel 2003 a formula was calculated incorrectly. Fixed now.
6. TQImport3Wizard. Fractional numbers were always separated by a point, regional settings were discarded. Fixed now.
7. Importing from CSV format caused the program hang-up. Fixed now.
8. TQImport3Wizard. XML files were imported with empty strings. Fixed now.
9. TQImport3Wizard. Strings longer than 8 KB were displayed incorrectly. Fixed now.
10. TQImport3Wizard. Now it is possible to resize the window of the wizard.
11. Other improvements and bugfixes.

Version 3.4

- Added support of Embarcadero RAD Studio XE2.

Version 3.3

- The support of Embarcadero RAD Studio XE is added.
- When using the ASCII import type in RAD Studio 2010, strings were sometimes truncated. Fixed now.
- QImport3XLS. When dealing with a large number of records, the destructor of the TXLSFile class was executed for too long. Fixed now.
- QImport3Wizard. Added the possibility to select the encoding for the CSV import type.
- QImport3Wizard. When reading from a template file, the Encoding, SkipLines and Map properties were not set for the import into the TXT format. Fixed now.
- Dates of the "1.1.1900" format were imported incorrectly. Fixed now.
- Some other small improvements and bug fixes.

Version 3.2

- Support of RAD Studio 2010 is added
- Italian localization is added
- In the Import Data wizard it is now possible to define the encoding when importing from text files
- Added the saving/reading of configuration for the TADO_QImport3Access component
- Memory leaks are eliminated
- A problem occurred during the import from XLS files which contained Eastern languages characters. Fixed now
- Fixed errors occurred when importing to StringGrid
- Fixed errors occurred when reading formulas in XLS files
- Resolved the type naming conflict which occurred when compiling component packages in C++ Builder
- If the number of fields in the source and destination files did not coincide, an error occurred when importing to ListView. Fixed now
- An error occurred in XLSX when the SheetName property had empty value. Fixed now
- Other minor improvements and bug-fixes

Version 3.1

- Support of RAD Studio 2009 is added
- Minor improvements and bug-fixes

Version 3.0

1. Six new data import components have been added:
 - [TQImport3HTML](#) component is intended for importing tables from HTML pages
 - [TQImport3XMLDoc](#) component is intended for importing generic XML files. The import from any XML file using XPath language and DataLocation (tlAttributes,

tSubNodes) is implemented

- [QImport3Xlsx](#) component is intended for importing the MS Excel 2007 sheets
 - [TQImport3Docx](#) component is intended for importing the MS Word 2007 tables
 - [TQImport3ODS](#) component is intended for importing the OpenDocument Spreadsheet files (Open Document Format)
 - [TQImport3ODT](#) component is intended for importing the tables of the OpenDocument Text files (Open Document Format)
2. Unicode support: now you are able to import Unicode data (UTF-8, UTF-16/UCS-2, UTF-32/UCS-4)
 3. With the new installer used, the components are installed and registered in Delphi / C++ Builder environment automatically
 4. Support of BDS 2006, RAD Studio 2007, Delphi 2007 and C++ Builder 2007 is added
 5. Memory usage and performance are improved; large files are imported significantly faster
 6. Other minor improvements and bug-fixes

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See also:

[What's new](#)

1.7 Other EMS Products

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Part



2 Advanced Data Import Component

EMS Advanced Data Import for RAD Studio VCL represents a set of tools for importing data to any TDataset component from files in different [formats](#), such as Microsoft Excel, Microsoft Access, DBF, XML, CSV, TXT, HTML, DOCX, ODT, ODS, XLSX, and XML Document.

From a programmer's point of view the component represents a homomorphic hierarchy of classes with the common ancestor [TQImport3](#). Beside the basic properties, methods and events, some specific characteristics are included in descendant classes.

The [TQImport3Wizard](#) component allows you to define all the import settings and import your data to the dataset from Excel, DBF, XML, CSV and TXT files within a dialog window. Using [TQImport3Wizard](#) you can add all the functionality of **Advanced Data Import for RAD Studio VCL** to your application within a single line of code!

Advanced Data Import for RAD Studio VCL provides a collection of the following components:

Component	Brief description
TQImport3	Common data import component
TADO_QImport3Access	Provides data import from MS Access databases
TQImport3ASCII	Provides data import from CSV and TXT files
TQImport3DataSet	Provides data import from a TDataSet component.
TQImport3DBF	Provides data import from DBF files
TQImport3Docx	Provides data import from MS Word tables
TQImport3HTML	Intended for importing tables from HTML pages
TQImport3ODS	Provides data import from OpenDocument Spreadsheet files (Open Document format)
TQImport3ODT	Provides data import from the tables of OpenDocument Text files (Open Document format)
TQImport3Wizard	Provides a dialog window to define all the import settings
TADO_QImport3Wizard	Provides the same functionality as TQImport3Wizard component, including import from Access
TQImport3XLS	Provides data import from XLS files
TQImport3XLSx	Intended for importing the MS Excel sheets
TQImport3XML	Provides data import from XML files
TQImport3XMLDoc	Provides data import from generic XML files using XPath and DataLocation (tIAttributes, tISubNodes)

2.1 TQImport3

2.1.1 TQImport3 Reference

Unit



























[QImport3](#)

Description

The *TQImport3* class is a base class of the collection. Here the basic properties and events for all the descendant classes are determined, and so are the two basic methods - [Execute](#) - which is later overridden in each of the components, and [Cancel](#).

2.1.2 Properties

▶ Run-time only  Key properties

-  [AddType](#)
- ▶  [Canceled](#)
-  [CommitAfterDone](#)
-  [CommitRecCount](#)
-  [DataSet](#)
-  [DBGrid](#)
-  [ErrorLog](#)
-  [ErrorLogFileName](#)
- ▶  [ErrorRecs](#)
- ▶  [Errors](#)
-  [FieldFormats](#)
- ▶  [FileName](#)
-  [Formats](#)
-  [GridCaptionRow](#)
-  [GridStartRow](#)
-  [ImportDestination](#)
- ▶  [ImportedRecs](#)
-  [ImportMode](#)
-  [ImportRecCount](#)
-  [KeyColumns](#)
-  [LastAction](#)
-  [ListView](#)
-  [Map](#)
-  [RewriteErrorLogFile](#)
-  [ShowErrorLog](#)
-  [StringGrid](#)

2.1.2.1 AddType

```
type TQImportAddType = (qatAppend, qatInsert);
```

```
property AddType: TQImportAddType;
```

Description

The *AddType* property defines what statement - *Append* or *Insert* - is used when writing data to the [ImportDestination](#). The default value is *qatInsert*.

2.1.2.2 AutoTrimValue

property AutoTrimValue: boolean;

Description

If property *AutoTrimValue* property is true Trim function is applied to all text data. The default value is false.

2.1.2.3 Canceled

`property` Canceled: boolean;

Description

The *Canceled* property is read-only and it indicates if the import process was canceled during its execution. When import is started this property is false, but if import is canceled before the completion, this property becomes true.

See also:

[OnImportCancel event](#)

[Cancel method](#)

2.1.2.4 CommitAfterDone

property CommitAfterDone: **boolean**;

Description

If the *CommitAfterDone* property is *true* then the [OnNeedCommit](#) event takes place after import is finished.

See also:

[CommitRecCount property](#)

[OnNeedCommit event](#)

2.1.2.5 CommitRecCount

```
property CommitRecCount: integer;
```

Description

The *CommitRecCount* property defines the number of records, after importing which the [OnNeedCommit](#) event takes place.

See also:

[CommitAfterDone property](#)

[OnNeedCommit event](#)

2.1.2.6 DataSet

property DataSet: TDataSet;

Description

The *DataSet* property points to the target TDataSet component to import data to. To use a DataSet instance as import destination, you should set the [ImportDestination](#) property to `qidDataSet` (default) and the dataset which must be opened (`Dataset.Active = true`) before the import begins (before the [Execute](#) method is invoked).

See also:

[ImportDestination property](#)

[DBGrid property](#)

[ListView property](#)

[StringGrid property](#)

[Execute method](#)

2.1.2.7 DBGrid

`property DBGrid: TDBGrid;`

Description

The *DBGrid* property points to the target TDBGrid component to import data to. To use a DBGrid instance as import destination, you should set the [ImportDestination](#) property to `qidDBGrid`.

See also:

[ImportDestination property](#)

[DataSet property](#)

[ListView property](#)

[StringGrid property](#)

2.1.2.8 ErrorLog

```
property ErrorLog: boolean;
```

Description

If the *ErrorLog* property is true then all the error messages arisen during the import process will be added as string values to the [Errors](#) property.

See also:

[ErrorRecs property](#)

[Errors property](#)

[OnImportError event](#)

[RewriteErrorLogFile](#)

2.1.2.9 ErrorLogFileName

```
property ErrorLogFileName: string;
```

Description

The *ErrorLogFileName* property defines the name of the file to store messages of all the errors occurred during import process. It is used only if the [ErrorLog](#) property is *True*.

See also:

[ErrorLog property](#)

[Errors property](#)

[ShowErrorLog property](#)

[RewriteErrorLogFile](#)

2.1.2.10 ErrorRecs

```
property ErrorRecs: integer;
```

Description

The *ErrorRecs* property is read-only and indicates the number of errors that occurred during the import process.

See also:

[ErrorLog property](#)

[Errors property](#)

[OnImportError event](#)

2.1.2.11 Errors

`property Errors: TStrings;`

Description

The *Errors* property is read-only and it stores all the error messages arisen during the import process. It is used only if the property [ErrorLog](#) is true, otherwise it will always be empty.

See also:

[ErrorLog property](#)
[ErrorRecs property](#)
[OnImportError](#)

2.1.2.12 FieldFormats

property `Formats`: [TQImportFieldFormats](#);

Description

The complex property *FieldFormats* is used in all the descendant components and determines the data formats of each imported field.

See also:

[TQImportFieldFormats object](#)

2.1.2.13 FileName

```
property FileName: string;
```

Description

The *FileName* property is used in all the *TQImport3* descendant components and determines the name of the file to import data from. This property must not be empty!

See also:

[DataSet property](#)

[Execute method](#)

2.1.2.14 Formats

property `Formats`: [TQImportFormats](#);

Description

The complex property `Formats` is used in all the descendant components and determines the type of the imported data.

See also:

[TQImportFormats object](#)

2.1.2.15 GridCaptionRow

`property GridCaptionRow: integer;`

Description

The *GridCaptionRow* property is used only if [ImportDestination](#) is *qidStringGrid*. It allows you to set the column captions instead of numbers in the [Map](#) property and defines the row in the target *StringGrid* to take captions from.

See also:

[GridStartRow property](#)

[DBGrid property](#)

2.1.2.16 GridStartRow

```
property GridStartRow: integer;
```

Description

The *GridStartRow* property is used only if [ImportDestination](#) is *qidStringGrid*. It defines the row number in the target StringGrid to start import from. The default value is -1, it means that new rows are added to the end of StringGrid when import begins.

See also:

[GridCaptionRow property](#)

[DBGrid property](#)

2.1.2.17 ImportDestination

```
type TQImportDestination = (qidDataSet, qidDBGrid, qidListView, qidStringGrid, qidUserDefined);
```

```
property ImportDestination: TQImportDestination;
```

Description

The *ImportDestination* property defines the type of the target object to import data to: TDataSet, TDBGrid, TListView or TStringGrid. Depending on the value of this property, one of the following properties are used for defining the target object: [DataSet](#), [DBGrid](#), [ListView](#) or [StringGrid](#). If you set the property value to qidUserDefined then you should process the imported value yourself using the OnUserDefinedImport event.

See also:

[DataSet property](#)

[DBGrid property](#)

[ListView property](#)

[StringGrid property](#)

2.1.2.18 ImportedRecs

```
property ImportedRecs: integer;
```

Description

The *ImportedRecs* property is read-only and it indicates the number of records successfully imported to the dataset.

See also:

[ImportRecCount property](#)

[OnImportRecord event](#)

2.1.2.19 ImportMode

type TQImportMode = (qimInsertAll, qimInsertNew, qimUpdate, qimUpdateOrInsert, qimDelete)

property ImportMode: TQImportMode;

Description

The *ImportMode* property allows you to define actions executed while importing data. The following values are available:

<i>qimInsertAll</i>	Inserts all the records from the source file to the target object
<i>qimInsertNew</i>	Inserts records which are not in the target object yet, others are skipped
<i>qimUpdate</i>	Updates those records which already exist in the target object, others are skipped
<i>qimUpdateOrInsert</i>	Updates existing records and inserts new records
<i>qimDelete</i>	Deletes those records which already exist in the target object, others are skipped
<i>qimDeleteOrInsert</i>	Deletes existing records and inserts new records

Note that for all of these modes, except InsertAll, you should define the [KeyColumns](#) property for defining the columns to search by.

See also:

[KeyColumns property](#)

[ImportDestination property](#)

2.1.2.20 ImportRecCount

```
property ImportRecCount: integer;
```

Description

The *ImportRecCount* property defines the number of records to import to the dataset. If its value is 0 then all the records will be imported, otherwise only the defined number of records will be imported.

See also:

[ImportedRecs property](#)

[OnImportRecord event](#)

2.1.2.21 KeyColumns

property KeyColumns: TStrings;

Description

The *KeyColumns* property is used if the [ImportMode](#) property is different from *qimInsertAll*. It defines columns which must be unique for searching the existing records in the target object.

See also:

[ImportMode property](#)

2.1.2.22 LastAction

```
type TQImportAction = (qiaNone, qiaInsert, qiaUpdate, qiaDelete);
```

```
property LastAction: TQImportAction;
```

Description

Read *LastAction* to get the last import action - *Insert*, *Update* or *Delete*, which depends on the [ImportMode](#) property value and on whether the duplicate value was met or not in the import destination ([ImportDestination](#) property).

You can use this property in [OnAfterPost](#) event, for example, for creating import logs.

See also:

[ImportMode](#) property

[OnAfterPost](#) event

2.1.2.23 ListView

property ListView: TListView;

Description

The *ListView* property points to the target *TListView* component to import data to. To use a *ListView* instance as import destination, you should set the [ImportDestination](#) property to *qidListView*.

See also:

[ImportDestination property](#)

[DataSet property](#)

[DBGrid property](#)

[StringGrid property](#)

2.1.2.24 Map

`property` Map: TStrings;

Description

The *Map* property is used in all the *TQImport3* descendant components and it sets the correspondence between the dataset fields and the imported table fields. It has its own implementation for each component.

See [TQImport3DBF: Map](#), [TQImport3XLS: Map](#), and [TQImport3ASCII: Map](#).

See also:

[TQImport3DBF: Map](#)

[TQImport3XLS: Map](#)

[TQImport3ASCII: Map](#)

2.1.2.25 RewriteErrorLogFile

`property RewriteErrorLogFile: boolean;`

Description

The *RewriteErrorLogFile* property defines whether the existing error log file defined by the [ErrorLogFileName](#) property, should be overwritten during import or not.

See also:

[ErrorLogFileName](#)

[ErrorLog](#)

[ShowErrorLog](#)

2.1.2.26 ShowErrorLog

`property ShowErrorLog: boolean;`

Description

If property *ShowErrorLog* is true then all the import error messages are shown on screen after the import is finished.

See also:

[ErrorLog property](#)

[ErrorLogFileName property](#)

[Errors property](#)

[RewriteErrorLogFile](#)

2.1.2.27 StringGrid

property StringGrid: TStringGrid;

Description

The *StringGrid* property points to the target *TStringGrid* component to import data to. To use a *StringGrid* instance as import destination, you should set the [ImportDestination](#) property to *qidStringGrid*.

See also:


[ImportDestination property](#)






[DataSet property](#)

[DBGrid property](#)

[ListView property](#)

2.1.3 Methods

 Key methods

-  [Cancel](#)
-  [Execute](#)
-  [ImportToCSV](#)
-  [LoadConfiguration](#)
-  [SaveConfiguration](#)

2.1.3.1 Cancel

```
procedure Cancel;
```

Description

The *Cancel* method stops the current import process initiated by the [Execute](#) method invocation. At the same time, the [OnImportCancel](#) event takes place.

See also:

[Canceled property](#)

[Execute method](#)

[OnImportCancel event](#)

2.1.3.2 Execute

```
function Execute: boolean;
```

Description

The *Execute* method is the central method of the collection. It executes the data import from the source file to the [DataSet](#). Of course, for each descendant class the method is defined in its own way, but the logics of the work remains the same for all the components. In case of the invocation, the function checks if the [FileName](#) and [DataSet](#) properties settings are correct; in case of an error, the exceptions are raised and the method stops being executed, returning false as a result. If all the required properties are set correctly, the method starts its work with generating the [OnBeforeImport](#) event. After it, the data import to the dataset is started, and after the importing each record the event [OnImportRecord](#) takes place. On completion of the process, the event [OnAfterImport](#) is invoked. The import process can be interrupted by [Cancel](#) method invocation, in this case the [OnImportCancel](#) event is invoked.

See also:

[Cancel method](#)

[DataSet property](#)

[FileName property](#)

[OnBeforeImport event](#)

2.1.3.3 ImportToCSV

```
procedure ImportToCSV(Stream: TStream; Comma, Quote: Char);
```

Description

The *ImportToCSV* method executes import to the given stream. The imported data are formatted as CSV, using the parameters *ListSeparator* and *Quote*, and then are written to the *Stream*. If *Quote* is the #0 character, then no quotes are used.

2.1.3.4 LoadConfiguration

```
procedure LoadConfiguration(const FileName: string);
```

Description

The *LoadConfiguration* method allows you to load all the component property values (FileName, Map, Formats, etc.) from the text file, specified by FileName.

See also:

[SaveConfiguration method](#)

2.1.3.5 SaveConfiguration

```
procedure SaveConfiguration(const FileName: string);
```

Description

The *SaveConfiguration* method allows you to save all the component property values (FileName, Map, Formats, etc.) to the text file specified by *FileName*.

See also:

[LoadConfiguration method](#)

2.1.4 Events

Key events

-  [OnAfterImport](#)
-  [OnAfterPost](#)
-  [OnBeforeImport](#)
-  [OnBeforePost](#)
-  [OnDestinationLocate](#)
-  [OnImportCancel](#)
-  [OnImportError](#)
-  [OnImportRecord](#)
-  [OnNeedCommit](#)
-  [OnUserDefinedImport](#)

2.1.4.1 OnAfterImport

property OnAfterImport: TNotifyEvent;

Description

The *OnAfterImport* event takes place when the import is complete or it was interrupted by the [Cancel](#) method.

See also:

[OnBeforeImport event](#)

[Cancel method](#)

2.1.4.2 OnAfterPost

```
type TImportAfterPostEvent = procedure(Sender: TObject; Row: TQImportRow); of object;  
property OnAfterPost: TImportAfterPostEvent;
```

Description

The *OnAfterPost* event takes place after the imported value is posted to the [ImportDestination](#) object. Use this event to take any actions without changing the importing value, according to the Row parameter. You can also use the LastAction property value here.

See also:

[OnBeforePost event](#)
[OnAfterImport event](#)
[TQImportRow object](#)

2.1.4.3 OnBeforeImport

```
property OnBeforeImport: TNotifyEvent;
```

Description

The *OnBeforeImport* event takes place right before the import is started, i.e. when the [Execute](#) method is invoked.

See also:

[OnAfterImport event](#)

[Execute method](#)

2.1.4.4 OnBeforePost

```
type TImportBeforePostEvent = procedure(Sender: TObject; Row: TQImportRow; var Accept: boolean);  
property OnBeforePost: TImportBeforePostEvent;
```

Description

The *OnBeforePost* event takes place when the current table row is already delivered from the source table but not posted to the [ImportDestination](#) yet (if *ImportDestination* is not *qidUserDefined*). Row is the list containing of field names and values and allowing you to change the field value in the current row before it is posted. The *Accept* parameter defines if the current row is imported or not.

In the example below all the country names are imported in upper case and all the rows with population more than 10 000 000 are not imported at all.

```
procedure QImport1.BeforePost(Sender: TObject; Row: TQImportRow; var Accept: boolean);  
var  
    i: integer;  
begin  
    for i := 0 to Row.Count - 1 do begin  
        if Row[i].Name = 'Country' then begin  
            Row[i].Value := AnsiUpperCase(Row[i].Value);  
            Continue;  
        end;  
        if (Row[i].Name = 'Population') and (StrToInt(Row[i].Value) > 10000000) then begin  
            Accept := False;  
            Break;  
        end;  
    end;  
end;
```

See also:

[OnAfterPost event](#)
[OnUserDefinedImport](#)
[OnBeforeImport event](#)
[TQImportRow object](#)

2.1.4.5 OnDestinationLocate

type

```
TDestinationLocateEvent = procedure(Sender: TObject; KeyColumns: TStrings; Row: TQI  
var KeyFields: string; var KeyValues: Variant) of object;
```

```
property OnDestinationLocate: TDestinationLocateEvent;
```

Description

If the [ImportMode](#) property has any value except *qimInsertAll*, and the [ImportDestination](#) property is set to *qidDataSet* or *qidDBGrid*, and it is necessary to find the record by *KeyColumns* values, then the *TDataSet.Locate* method is called. You can use the *OnDestinationLocate* event to customize the *TDataSet.Locate* method parameters, such as *KeyFields* and *KeyValues*.

See also:

[ImportDestination property](#)

[ImportMode property](#)

2.1.4.6 OnImportCancel

```
type TImportCancelEvent = procedure(Sender: TObject; var Continue: boolean); of object  
  
property OnImportCancel: TImportCancelEvent;
```

Description

The *OnImportCancel* event takes place when the export process begun by the [Execute](#) method is interrupted by using the [Cancel](#) method invocation. Variable *Continue* defines whether the import process shall be stopped. If *Continue=False* then import will be aborted, otherwise it will be continued.

See also:

[OnAfterImport event](#)

[Cancel method](#)

2.1.4.7 OnImportError

property OnImportError: TNotifyEvent;

Description

The *OnImportError* event takes place when any error occurs during the import process.

See also:

[ErrorLog property](#)
[ErrorRecs property](#)
[Errors property](#)

2.1.4.8 OnImportRecord

property OnImportRecord: TNotifyEvent;

Description

The *OnImportRecord* event takes place after the importing data to each [Dataset](#) record. It is most frequently used to inform the user about the import execution process, e.g. to display the number of records exported, to increase the ProgressBar position, etc.

See also:

[ImportRecs property](#)

[ImportRecCount](#)

2.1.4.9 OnImportRowComplete

```
type TUserDefinedImportEvent = procedure(Sender: TObject; Row: TQImportRow); of object  
  
property OnImportRowComplete: TUserDefinedImportEvent;
```

Description

The *OnImportRowComplete* event takes place when the import of row is complete.

See also:

[ImportRecs property](#)

[ImportRecCount](#)

2.1.4.10 OnNeedCommit

property OnNeedCommit: TNotifyEvent;

Description

The *OnNeedCommit* event takes place after importing a number of records, defined in the [CommitRecCount](#) property, or when the import is finished, if the [CommitAfterDone](#) is true. If neither of these properties are defined, the *OnNeedCommit* event will never take place.

Note that you should process the event manually to commit writing data to the dataset.

See also:

[CommitAfterDone property](#)

[CommitRecCount property](#)

2.1.4.11 OnUserDefinedImport

```
type TUserDefinedImportEvent = procedure(Sender: TObject; Row: TQImportRow); of object  
  
property OnUserDefinedImport: TUserDefinedImportEvent;
```

Description

The *OnUserDefinedImport* event takes place only if the [ImportDestination](#) property is *qidUserDefined*. It occurs each time the value is read from the source file and allows you to put the Row value to any destination you like.

See also:

[TQImportRow object](#)
[OnBeforePost event](#)

2.2 TADO_QImport3Access

2.2.1 TADO_QImport3Access Reference

Unit

[QImport3Access](#)


Description




The *TADO_QImport3Access* component is intended for importing data from the MS Access databases. Using the [SourceType](#) property you can receive data either from a table specified by the [TableName](#) property, or from the result of a query defined in the [SQL](#) property.

Note that *TADO_QImport3Access* installs only on Delphi 5 or higher, as it uses ADO.

2.2.2 Properties

▶ Run-time only

 Key properties

 [SkipFirstRows](#)
 [SourceType](#)
 [SQL](#)
 [TableName](#)

2.2.2.1 SkipFirstRows

```
property SkipFirstRows;
```

Description

The *SkipFirstRows* property defines the number of rows, counted from the first in the source table, which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four rows of the source Access table or query result are not imported.

2.2.2.2 SourceType

```
type TQImportAccessSourceType = (isTable, isSQL);
```

```
property SourceType: TQImportAccessSourceType;
```

Description

The *SourceType* property defines if data are imported from the Access table specified by the [TableName](#) property, or from the result of the query defined by the [SQL](#) property.

See also:

[SQL property](#)

[TableName property](#)

2.2.2.3 SQL

`property SQL: TStrings;`

Description

The *SQL* property sets the SQL text for the query to be executed which result is returned to the dataset. This property works only if [SourceType](#) is *isSQL*.

See also:

[SourceType property](#)

[TableName property](#)

2.2.2.4 TableName

```
property TableName: string;
```

Description

The *TableName* property defines the name of the Access table to import data from. This property works only if [SourceType](#) is *isTable*.

See also:

[SourceType property](#)

[SQL property](#)

2.3 TQImport3ASCII

2.3.1 TQImport3ASCII Reference

Unit

[QImport3ASCII](#)

Description

The *TQImport3ASCII* component is used to import data from files in formats usually used as working or interchange [formats](#), i.e. Comma Separated Value (CSV) and Plain Text Format.

2.3.2 Properties

▶ Run-time only

🔑 Key properties

- 🔑 [Comma](#)
- [CommitAfterDone](#)
- [CommitRecCount](#)
- [DataSet](#)
- 🔑 [Encoding](#)
- [FieldFormats](#)
- [FileName](#)
- [Formats](#)
- [ImportRecCount](#)
- 🔑 [Map](#)
- 🔑 [Quote](#)
- 🔑 [SkipFirstRows](#)

2.3.2.1 Comma

`property Comma: AnsiChar;`

Description

The *Comma* property defines the character to be used as comma in the source table.

2.3.2.2 Encoding

property `Encoding: TQICharsetType;`

Description

The *Encoding* property defines the encoding to be used while importing to the dataset. By default, Windows encoding is used.

2.3.2.3 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source DBF table will not be imported.

2.3.2.4 Map

```
property Map: TStrings;
```

Description

Defining the *Map* property for the ASCII import depends on the type of the source table. If each column has its own fixed size then you should provide two integers for each dataset field: a position number (where column begins) and a column size.

E.g.

```
DataSet.FieldName1=4
```

or

```
DataSet.FieldName1=20;15.
```

See also:

[Map property](#) (TQImport3)


2.3.2.5 Quote

`property Quote: AnsiChar;`

Description

If the source data contains quoted characters, you should define the character used for quotation in the *Quote* property, e.g. ` `.

2.3.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.4 TQImport3DataSet

2.4.1 TQImport3DataSet Reference

Unit


[TQImport3DataSet](#)

Description

The *TQImport3DataSet* component is intended for moving data from one dataset defined by the [Source property](#) to the other one set as the [DataSet property](#) value.

2.4.2 Properties

▶ Run-time only

 Key properties

 [GoToFirstRecord](#)

 [SkipFirstRows](#)

 [Source](#)

2.4.2.1 GoToFirstRecord

`property GoToFirstRecord: boolean;`

Description

If `GoToFirstRecord` property is `True`, then import starts from the first record of the source dataset, otherwise from the current record.

2.4.2.2 SkipFirstRows

```
property SkipFirstRows;
```

Description

The SkipFirstRows property defines the number of rows, counted from the first in the source dataset, which are not imported to the dataset. E.g. if you set SkipFirstRows=4 then the first four rows of the source dataset are not imported.

2.4.2.3 Source

property Source: TDataSet;

Description

The Source property defines the source TDataSet component, import from which takes place.

2.5 TQImport3DBF

2.5.1 TQImport3DBF Reference

Unit


[QImport3DBF](#)

Description

The *TQImport3DBF* component allows you to import your data from the DBF files.

2.5.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

[ImportRecCount](#)

 [SkipDeleted](#)

 [SkipFirstRows](#)

 [Map](#)

2.5.2.1 SkipDeleted

`property SkipDeleted: boolean;`

Description

If *SkipDeleted* is *true* (default), then all the records in the source DBF file marked as deleted are not imported to the target object.

2.5.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records, counted from the first in the source table, which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source DBF table will not be imported.

2.5.2.3 Map

```
property Map: TStrings;
```

Description


To set the correspondence between the dataset fields and the DBF table field you should define the *Map* property in the following way:

```
DataSet.FieldName1=TableFieldName1,  
DataSetFieldName2=TableFieldName2, etc.
```

See also:

[Map property](#) (TQImport3)

2.5.3 Events

 Key events

- [OnAfterImport](#)
- [OnBeforeImport](#)
- [OnBeforePost](#)
- [OnImportError](#)
- [OnImportRecord](#)
- [OnNeedCommit](#)

2.6 TQImport3Docx

2.6.1 TQImport3Docx Reference

Unit


[QImport3Docx](#)

Description

The *TQImport3Docx* component is intended for importing the MS Word 2007 files.

2.6.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

 [NeedFillMerge](#)

[ImportRecCount](#)

 [Map](#)

 [SkipFirstRows](#)

 [TableNumber](#)

2.6.2.1 Map

property Map: TStrings;

Description

To set the correspondence between the dataset fields and the Docx table column you should define the *Map* property in the following way:

DataSet.FieldName1=1,
DataSet.FieldName2=2, etc.

2.6.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records, counted from the first in the source table, which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source Docx table will not be imported.

2.6.2.3 NeedFillMerge

`property` NeedFillMerge: **Boolean**;

Description

The *NeedFillMerge* property defines whether the merged cells should be filled.


2.6.2.4 **TableNumber**

`property TableNumber: integer;`

Description

The *TableNumber* property sets the number of table to be imported.

2.6.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.7 TQImport3HTML

2.7.1 TQImport3HTML Reference

Unit


[QImport3HTML](#)

Description

The *TQImport3HTML* component is used to import data from the tables contained in HTML files.

2.7.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)



[TableNumber](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

[ImportRecCount](#)



[Map](#)



[SkipFirstRows](#)

2.7.2.1 Map

`property` Map: TStrings;

Description

To set the correspondence between the dataset fields and the HTML table column you should define the Map property in the following way:

DataSet.FieldName1=1,
DataSet.FieldName2=2, etc.

2.7.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records, counted from the first in the source table, which are not imported to the dataset. E.g. if you set `SkipFirstRows=4` then the first four records of the source HTML table will not be imported.


2.7.2.3 **TableNumber**

property `TableNumber`: **integer**;

Description

The *TableNumber* property defines the number of table in HTML document. E.g. if you set `TableNumber=2` then the second table from the HTML document will be selected for import.

2.7.3 Events

 Key events

- [OnAfterImport](#)
- [OnBeforeImport](#)
- [OnBeforePost](#)
- [OnImportError](#)
- [OnImportRecord](#)
- [OnNeedCommit](#)

2.8 TQImport3ODS

2.8.1 TQImport3ODS Reference

Unit


[QImport3ODS](#)

Description

The *TQImport3ODS* component is intended to import data from the OpenDocument Spreadsheet files.

2.8.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

 [NotExpandMergedValue](#)

[ImportRecCount](#)

 [Map](#)

 [SkipFirstRows](#)

 [SheetName](#)

2.8.2.1 Map

`property` Map: TStrings;

Description

To set the correspondence between the dataset fields and the OpenDocument Spreadsheet file column you should define the *Map* property in the following way:
DataSet.FieldName1=A,
DataSet.FieldName2=B, etc.

2.8.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records, counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source ODS will not be imported.

2.8.2.3 SheetName

```
property SheetName: string;
```

Description

The *SheetName* property sets the name of the sheet.


2.8.2.4 NotExpandMergedValue

`property` NotExpandMergedValue: **Boolean**;

Description

The *NotExpandMergedValue* property defines whether the merged cell values should be spread (true by default, the merged cell values are not expanded).

2.8.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.9 TQImport3ODT

2.9.1 TQImport3ODT Reference

Unit


[QImport3ODT](#)

Description

The *TQImport3ODT* component is intended for importing the OpenDocument Text files.

2.9.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

[ImportRecCount](#)

 [SheetName](#)

 [UseComplexTables](#)

 [SkipFirstRows](#)

 [Map](#)

2.9.2.1 Map

```
property Map: TStrings;
```

Description

To set the correspondence between the dataset fields and the OpenDocument Text table column you should define the *Map* property in the following way:

```
DataSet.FieldName1=A,  
DataSet.FieldName2=B, etc.
```

2.9.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records, counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source ODT table will not be imported.

2.9.2.3 SheetName

```
property SheetName: string;
```

Description

The *SheetName* property sets the name of the table.


2.9.2.4 UseComplexTables

`property UseComplexTables: Boolean;`

Description

The *UseComplexTables* property allows to import data from the ODT file table if it has a complex merged structure (when it can be parsed improperly).

2.9.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.10 TQImport3Wizard

2.10.1 TQImport3Wizard Reference

Unit

[TQImport3Wizard](#)

Description

The *TQImport3Wizard* component allows you to define all the import settings and import your data to the dataset from Excel, DBF, CSV, XML and TXT files within a dialog window. Using *TQImport3Wizard* you can add all the functionality of the *Advanced Data Import* components to your application within a single line of code!

2.10.2 Properties

▶ Run-time only

🔑 Key properties

- 🔑 [AddType](#)
- 🔑 [AllowedImports](#)
- 🔑 [AutoChangeExtension](#)
- 🔑 [AutoLoadTemplate](#)
- 🔑 [AutoSaveTemplate](#)
- 🔑 [CloseAfterImport](#)
- 🔑 [CommitAfterDone](#)
- 🔑 [CommitRecCount](#)
- 🔑 [ConfirmOnCancel](#)
- 🔑 [CSVViewerRows](#)
- 🔑 [DataSet](#)
- 🔑 [DBGrid](#)
- 🔑 [ErrorLog](#)
- 🔑 [ErrorLogFileName](#)
- 🔑 [ExcelMaxColWidth](#)
- 🔑 [ExcelViewerRows](#)
- 🔑 [FieldFormats](#)
- 🔑 [FileName](#)
- 🔑 [Formats](#)
- 🔑 [GoToLastPageAfterLoadTemplate](#)
- 🔑 [GridCaptionRow](#)
- 🔑 [GridStartRow](#)
- 🔑 [ImportDestination](#)
- 🔑 [ImportMode](#)
- 🔑 [ImportRecCount](#)
- 🔑 [KeyColumns](#)
- 🔑 [ListView](#)
- 🔑 [Picture](#)
- 🔑 [RewriteErrorLogFile](#)
- 🔑 [ShowErrorLog](#)
- 🔑 [ShowHelpButton](#)
- 🔑 [ShowProgress](#)
- 🔑 [ShowSaveLoadButtons](#)
- 🔑 [StringGrid](#)
- 🔑 [TemplateFileName](#)
- 🔑 [TextViewerRows](#)

2.10.2.1 AddType

```
type TQImportAddType = (qatAppend, qatInsert);
```

```
property AddType: TQImportAddType;
```

Description

The *AddType* property defines what statement - *Append* or *Insert* - is used when writing data to the [ImportDestination](#). The default value is *qatInsert*.

2.10.2.2 AllowedImports

```
type TAllowedImport = (aiXLS, aiDBF, aiXML, aiTXT, aiCSV);
```

```
type TAllowedImports = set of TAllowedImport;
```

```
property AllowedImports: TAllowedImports;
```

Description

The *AllowedImports* property defines the import types available in the dialog window. Add or remove values from the property to enable or disable corresponding import types.

See also:

[AutoChangeExtension property](#)

[FileName property](#)

2.10.2.3 AutoChangeExtension

property AutoChangeExtension: **boolean**;

Description

If the *AutoChangeExtension* property is *true* then on choosing the import type in the dialog window the file extension will be changed automatically in the 'Source Filename' edit field.

See also:

[AllowedImports property](#)

[FileName property](#)

2.10.2.4 AutoLoadTemplate

property AutoLoadTemplate: **boolean**;

Description

If the *AutoLoadTemplate* property is *true*, then all the import settings are automatically load on starting wizard from the template file specified by the [TemplateFileName](#) property.

See also:

[AutoSaveTemplate property](#)

[TemplateFileName property](#)

2.10.2.5 AutoSaveTemplate

`property AutoSaveTemplate: boolean;`

Description

If the *AutoSaveTemplate* property is *true*, then all the import settings are automatically saved on wizard finish to the template file specified by the [TemplateFileName](#) property.

See also:

[AutoLoadTemplate property](#)

[TemplateFileName property](#)

2.10.2.6 CloseAfterImport

property CloseAfterImport: boolean;

Description

If the *CloseAfterImport* property is *True*, then the Wizard closes automatically after the import process is finished.

2.10.2.7 CommitAfterDone

property CommitAfterDone: **boolean**;

Description

If the *CommitAfterDone* property is *True* then the [OnNeedCommit event](#) takes place after the import finished.

See also:

[CommitRecCount property](#)

[OnNeedCommit event](#)

2.10.2.8 CommitRecCount

```
property CommitRecCount: integer;
```

Description

The *CommitRecCount* property defines the number of records after importing which the [OnNeedCommit event](#) takes place.

See also:

[CommitAfterDone property](#)

[OnNeedCommit event](#)

2.10.2.9 ConfirmOnCancel

`property ConfirmOnCancel: boolean;`

Description

The *ConfirmOnCancel* property defines whether user is asked for confirmation on trying to cancel import or not.

2.10.2.10 CSVViewerRows

`property CSVViewerRows: integer;`

Description

Use the *CSVViewerRows* property to define the number of the CSV file rows shown in the grid on the Step 1 of the wizard if import from CSV is selected.

See also:

[ExcelViewerRows property](#)

[TextViewerRows property](#)

2.10.2.11 DataSet

property DataSet: TDataSet;

Description

The *DataSet* property points to the target TDataSet component to import data to. To use a DataSet instance as import destination, you should set the [ImportDestination](#) property to `qidDataSet` (default) and the dataset which must be opened (`Dataset.Active = true`) before the import begins (before the [Execute](#) method is invoked).

See also:

[ImportDestination property](#)

[DBGrid property](#)

[ListView property](#)

[StringGrid property](#)

[Execute method](#)

2.10.2.12 DBGrid

property DBGrid: TDBGrid;

Description

The *DBGrid* property points to the target TDBGrid component to import data to. To use a DBGrid instance as import destination, you should set the [ImportDestination](#) property to *qidDBGrid*.

See also:

[ImportDestination property](#)

[DataSet property](#)

[ListView property](#)

[StringGrid property](#)

[Execute method](#)

2.10.2.13 ErrorLog

`property ErrorLog: boolean;`

Description

If *ErrorLog* property is true then all the error messages arisen during the import process are stored in the file specified by the [ErrorLogFileName property](#).

See also:

[ErrorLogFileName property](#)

[ShowErrorLog property](#)

[OnImportError event](#)

2.10.2.14 ErrorLogFileName

```
property ErrorLogFileName: string;
```

Description

The the *ErrorLogFileName* property defines the name of the file to store messages of all the errors occurred during import process. It is used only if the [ErrorLog property](#) is True.

See also:

[ErrorLog property](#)

[RewriteErrorLogFile property](#)

[ShowErrorLog property](#)

[OnImportError event](#)

2.10.2.15 ExcelMaxColWidth

`property ExcelMaxColWidth: integer;`

Description

The the *ExcelMaxColWidth* property defines the maximum width of the Excel grid columns shown on the Step 1 of the wizard if import from Excel is selected.

See also:

[ExcelViewerRows property](#)

2.10.2.16 ExcelViewerRows

`property ExcelViewerRows: integer;`

Description

Use the *ExcelViewerRows* property to define the number of the Excel grid rows shown on the Step 1 of the wizard if import from Excel is selected.

See also:

[ExcelMaxColWidth property](#)

[CSVViewerRows property](#)

[TextViewerRows property](#)

2.10.2.17 FieldFormats

property `Formats`: [TQImportFieldFormats](#);

Description

The complex property `FieldFormats` determines the data formats of each certain imported field.

See also:

[TQImportFieldFormats object](#)
[Formats property](#)

2.10.2.18 FileName

```
property FileName: string;
```

Description

The *FileName* property determines the name of the file to import data from. This property must not be empty!

See also:

[ImportDestination property](#)

[Execute method](#)

2.10.2.19 Formats

property *Formats*: [TQImportFormats](#);

Description

The complex property *Formats* determines the type of the imported data.

See also:

[TQImportFormats object](#)

[FieldFormats property](#)

2.10.2.20 GoToLastPageAfterLoadTemplate

property GoToLastPage: **boolean**;

Description

If the *GoToLastPage* property is *true*, then, on executing import, the last wizard page is displayed right after the template is loaded into the wizard skipping other pages.

See also:

[AutoLoadTemplate property](#)

[AutoSaveTemplate property](#)

2.10.2.21 GridCaptionRow

property GridCaptionRow: **integer**;

Description

The *GridCaptionRow* property is used only if [ImportDestination](#) is *qidStringGrid*. It allows you to set the column captions instead of numbers while setting the column correspondence in the wizard and defines the row in the target *StringGrid* to take captions from.

See also:

[ImportDestination property](#)

[GridStartRow property](#)

2.10.2.22 GridStartRow

```
property GridStartRow: integer;
```

Description

The *GridStartRow* property is used only if [ImportDestination](#) is *qidStringGrid*. It defines the row number in the target *StringGrid* to start import from. The default value is -1, it means that new rows are added to the end of *StringGrid* when import begins.

See also:

[ImportDestination property](#)

[GridCaptionRow property](#)

2.10.2.23 ImportDestination

```
type TQImportDestination = (qidDataSet, qidDBGrid, qidListView, qidStringGrid);
```

```
property ImportDestination: TQImportDestination;
```

Description

The *ImportDestination* property defines the type of the target object to import data to: TDataSet, TDBGrid, TListView or TStringGrid. Depending on the value of this property, one of the following properties are used for defining the target object: [DataSet](#), [DBGrid](#), [ListView](#) or [StringGrid](#).

See also:

[DataSet property](#)

[DBGrid property](#)

[ListView property](#)

[StringGrid property](#)

2.10.2.24 ImportMode

type TQImportMode = (qimInsertAll, qimInsertNew, qimUpdate, qimUpdateOrInsert, qimDelete)

property ImportMode: TQImportMode;

Description

The *ImportMode* property allows you to define actions executed while importing data. The following values are available:

<i>qimInsertAll</i>	Inserts all the records from the source file to the target object
<i>qimInsertNew</i>	Inserts records which are not in the target object yet, others are skipped
<i>qimUpdate</i>	Updates those records which already exist in the target object, others are skipped
<i>qimUpdateOrInsert</i>	Updates existing records and inserts new records
<i>qimDelete</i>	Deletes those records which already exist in the target object, others are skipped
<i>qimDeleteOrInsert</i>	Deletes existing records and inserts new records

Note that for all of these modes, except *InsertAll*, you should define the [KeyColumns](#) property for defining the columns to search by.

See also:

[KeyColumns property](#)

2.10.2.25 ImportRecCount

```
property ImportRecCount: integer;
```

Description

The *ImportRecCount* property defines the number of records to import to the dataset. If its value is 0 then all the records will be imported, otherwise only the defined number of records will be imported.

See also:

[OnImportRecord event](#)

2.10.2.26 KeyColumns

`property KeyColumns: TStrings;`

Description

The *KeyColumns* property is used if the [ImportMode](#) property is different from *qimInsertAll*. It defines columns which must be unique for searching the existing records in the target object.

See also:

[ImportMode property](#)

2.10.2.27 ListView

property ListView: TListView;

Description

The *ListView* property points to the target *TListView* component to import data to. To use a *ListView* instance as import destination, you should set the [ImportDestination](#) property to *qidListView*.

See also:

[DataSet property](#)

[DBGrid property](#)

[StringGrid property](#)

[ImportDestination property](#)

[Execute method](#)

2.10.2.28 Picture

property `Picture: TPicture;`

Description

Use the *Picture* property to set the picture shown on starting the wizard (on the "Import from" step). Note that the default picture width is 122 and its height is 346.

2.10.2.29 RewriteErrorLogFile

`property RewriteErrorLogFile: boolean;`

Description

If the *RewriteErrorLogFile* property is *True* then the errors are recorded into the file specified by the [ErrorLogFileName property](#), even if such file already exists.

See also:

[ErrorLog property](#)

[ErrorLogFileName property](#)

2.10.2.30 ShowErrorLog

`property ShowErrorLog: boolean;`

Description

If property *ShowErrorLog* is *true* then all the import error messages are shown on screen after the import is finished.

See also:

[ErrorLog property](#)

[ErrorLogFileName property](#)

[OnImportError event](#)

2.10.2.31 ShowHelpButton

`property ShowHelpButton: boolean;`

Description

If the *ShowHelpButton* property is *true*, then the 'Help' button will be visible in the wizard window. Using this button the user will be able to access the component help file.

See also:

[ShowProgress property](#)

[ShowSaveLoadButtons property](#)

2.10.2.32 ShowProgress

`property ShowProgress: boolean;`

Description

If the *ShowProgress* property is true then the progress bar showing the import progress will be visible in the wizard window.

See also:

[ShowHelpButton property](#)

[ShowSaveLoadButtons property](#)

2.10.2.33 ShowSaveLoadButtons

property ShowSaveLoadButtons: **boolean**;

Description

If the *ShowSaveLoadButtons* property is *true*, then buttons 'Save template to file' and 'Load template to file' will be visible in the wizard window. Using this buttons the user will be able to save the template with different import options (source filename, field correspondence, format options, etc) to file and then load this template for fastening the import process.

See also:

[ShowHelpButton property](#)

[ShowProgress property](#)

2.10.2.34 StringGrid

```
property StringGrid: TStringGrid;
```

Description

The *StringGrid* property points to the target *TStringGrid* component to import data to. To use a *StringGrid* instance as import destination, you should set the [ImportDestination](#) property to *qidStringGrid*.

See also:

[DataSet property](#)

[DBGrid property](#)

[ListView property](#)

[ImportDestination property](#)

[Execute method](#)

2.10.2.35 TemplateFileName

`property` TemplateFileName: **string**;

Description

The *TemplateFileName* property defines the template file where all the import settings are stored. If properties [AutoSaveTemplate](#) and [AutoLoadTemplate](#) are *true*, then import settings are automatically saved to and loaded from this file on each wizard session.

See also:

[AutoSaveTemplate property](#)

[AutoLoadTemplate property](#)

2.10.2.36 TextViewerRows

`property` TextViewerRows: **integer**;

Description


Use the *TextViewerRows* property to define the number of the text file rows shown on the Step 1 of the wizard if import from TXT is selected.

See also:

[CSVViewerRows property](#)

[ExcelViewerRows property](#)

2.10.3 Methods

 Key methods

[Execute](#)


2.10.3.1 Execute

```
function Execute: boolean;
```

Description

The *Execute* method is the central method of the suite. It executes the data import from the source file to the [ImportDestination](#). Of course, for each descendant class the method is defined in its own way, but the logics of the work remains the same for all the components. In case of the invocation, the function checks if the [FileName](#) and [ImportDestination](#) properties settings are correct; in case of an error, the exceptions are raised and the method stops being executed, returning false as a result. If all the required properties are set correctly, the method starts its work with generating the [OnBeforeImport](#) event. After it, the data import to the dataset is started, and after the importing each record the event [OnImportRecord](#) takes place. On completion of the process, the event [OnAfterImport](#) is invoked.

2.10.4 Events

 Key events

- [OnAfterImport](#)
- [OnBeforeImport](#)
- [OnBeforePost](#)
- [OnDestinationLocate](#)
- [OnImportCancel](#)
- [OnImportError](#)
- [OnImportRecord](#)
- [OnLoadTemplate](#)
- [OnNeedCommit](#)

2.10.4.1 OnAfterImport

property OnAfterImport: TNotifyEvent;

Description

The *OnAfterImport* event takes place when the export is complete and it was interrupted by the [Cancel](#) method.

2.10.4.2 OnBeforeImport

property OnBeforeImport: TNotifyEvent;

Description

The *OnBeforeImport* event takes place right before the import is started, i.e. when the [Execute](#) method is invoked.

2.10.4.3 OnBeforePost

```
type TImportBeforePostEvent = procedure(Sender: TObject; Row: TQImportRow; var Accept: boolean);  
property OnBeforePost: TImportBeforePostEvent;
```

Description

The *OnBeforePost* event takes place when the current table row is already delivered from the source table but not posted to the [ImportDestination](#) yet. TQImport3 row is the list, containing of field names and values and allowing you to change the field value in the current row before it is posted. The Accept parameter defines if the current row is imported or not.

In the example below all the country names are imported in upper case and all the rows with population more than 10 000 000 are not imported at all.

```
procedure QImport31.BeforePost(Sender: TObject; Row: TQImportRow; var Accept: boolean);  
var  
    i: integer;  
begin  
    for i := 0 to Row.Count - 1 do begin  
        if Row[i].Name = 'Country' then begin  
            Row[i].Value := AnsiUpperCase(Row[i].Value);  
            Continue;  
        end;  
        if (Row[i].Name = 'Population') and (StrToInt(Row[i].Value) > 10000000) then begin  
            Accept := False;  
            Break;  
        end;  
    end;  
end;
```

2.10.4.4 OnDestinationLocate

type

```
TDestinationLocateEvent = procedure(Sender: TObject; KeyColumns: TStrings; Row: TQI  
var KeyFields: string; var KeyValues: Variant) of object;
```

```
property OnDestinationLocate: TDestinationLocateEvent;
```

Description

If the [ImportMode](#) property has any value except *qimInsertAll*, and the [ImportDestination](#) property is set to *qidDataSet* or *qidDBGrid*, and it is necessary to find the record by *KeyColumns* values, then the *TDataSet.Locate* method is called. You can use the *OnDestinationLocate* event to customize the *TDataSet.Locate* method parameters, such as *KeyFields* and *KeyValues*.

See also:

[ImportDestination property](#)

[ImportMode property](#)

2.10.4.5 OnImportCancel

```
type TImportCancelEvent = procedure(Sender: TObject; var Continue: boolean); of object  
  
property OnImportCancel: TImportCancelEvent;
```

Description

The *OnImportCancel* event takes place when the export process begun by the [Execute](#) method is interrupted. Variable *Continue* defines whether the import process should be stopped. If *Continue=False* then import will be aborted, otherwise it will be continued.

2.10.4.6 OnImportError

property OnImportError: TNotifyEvent;

Description

The *OnImportError* takes place when any error occurs during the import process.

2.10.4.7 OnImportRecord

property OnImportRecord: TNotifyEvent;

Description

The *OnImportRecord* event takes place after the importing data to each [ImportDestination](#) record. It is most frequently used to inform the user about the import execution process, e.g. to display the number of records exported, to increase the ProgressBar position, etc.

2.10.4.8 OnLoadTemplate

```
type TImportLoadTemplateEvent = procedure(Sender: TObject; const FileName: string); of  
property OnLoadTemplate: TImportLoadTemplateEvent;
```

Description

The *OnLoadTemplate* event takes place after the template is loaded to the wizard. According to the *FileName* parameter which stands for the template file name, you can take any actions you need.

2.10.4.9 OnNeedCommit

property OnNeedCommit: TNotifyEvent;

Description

The *OnNeedCommit* event takes place after importing a number of records, defined in the [CommitRecCount](#) property, or when the import is finished, if the [CommitAfterDone](#) is true. If neither of these properties are defined, the *OnNeedCommit* event will never take place.

Note that you should process the event manually to commit writing data to the dataset.

2.11 TQImport3XLS

2.11.1 TQImport3XLS Reference

Unit


[QImport3XLS](#)

Description

The *TQImport3XLS* component is intended for importing the MS Excel e-tables to the dataset. MS Office 97-2003 and higher supported.

2.11.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

 [ImportRange](#)

[ImportRecCount](#)

 [Map](#)

 [SkipFirstCols](#)

 [SkipFirstRows](#)

2.11.2.1 ImportRange

```
type TQImportRange = (qirMax, qirMin);
```

```
property ImportRange: TQImportRange;
```

Description

As number of records may vary in different columns, you should define when import should be stopped: on importing the longest column or on reaching the last record of the shortest column. Set the *ImportRange* property on *qirMax* or *qirMin* in accordance to define this.

See also:

[Map property](#)

2.11.2.2 Map

```
property Map: TStrings;
```

Description

To set the correspondence between the dataset fields and the Excel cells you should define the *Map* property in the following way:

```
FieldName=CellRange
```

You can define the CellRange string depending on your needs.

Separate cells

To import separate cells, define the CellRange string as set of cell identifiers, e.g. A1, B2, C3, separated by semicolon.

Example

```
Field1=A1  
Field1=A1;B2;C3;
```

Column

To import entire column or its part, define the string in the following format:

```
FieldName=FirstCell-LastCell
```

Example

<u>Example</u>	<u>Imported cells</u>
<i>Field1=A1-A10</i>	From A1 up to A10
<i>Field1=A10-A1</i>	From A10 down to A1
<i>Field1=COLSTART-</i>	From the first cell with data in the column A up to A10

<i>Field1=A10-</i>	From A10 down to the first cell with data in the column A
--------------------	---

<i>Field1=A10-</i>	From A10 up to the last cell with data in the column A
--------------------	--

Field1=COLFINISH- From the last cell with data in the column A down to A10

Field1=A-COLFINISH From the first up to the last cell with data in the column A

Field1=A-COLSTART From the last down to the first cell with data in the column A

Rows

To import entire row or its part, define the string in the following format:

FieldName=FirstCell-LastCell

Example

Imported cells

Field1=A1-D1

From A1 up to D1

Field1=D1-A1

From D1 down to D1

Field1=ROWSTART- From the first cell with data in the row 1 up to F1

Field1=F1-

From F1 down to the first cell with data in the row 1

Field1=A10-

From A10 up to the last cell with data in the row 10

Field1=ROWFINISH- From the last cell with data in the row 10 down to A10

Field1=10-

From the first up to the last cell with data in the row 10

Field1=10-

From the last down to the first cell with data in the row 10

Defining sheets

To define the specific sheet, use the following string format:

FieldName=[*SheetName*]*FirstCell-LastCell*

or

FieldName=[:*SheetNumber*]*FirstCell-LastCell*

ExampleImported cells

Field1=[*Sheet1*]A1- From A1 up to A10 at the sheet named Sheet1

Field1=[:*3*]A1-A10 From A1 up to A10 at the sheet number 3

You can mix cell ranges as you need.

Example

Field1=A1;A3;A10-A15;A15-D15;D15-COLFINISH;[*Sheet1*]COLFINISH-A1

See also:

[ImportRange property](#)

[Map property](#) (TQImport3)

2.11.2.3 SkipFirstCols

```
property SkipFirstCols: integer;
```

Description

The *SkipFirstCols* property defines the number of columns, counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstCols*=4 then the first four columns of the source Excel table will not be imported.

See also:

[SkipFirstRows property](#)

2.11.2.4 SkipFirstRows

```
property SkipFirstRows: integer;
```


Description

The *SkipFirstRows* property defines the number of rows counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four rows of the source Excel table will not be imported.

See also:

[SkipFirstCols property](#)

2.11.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.12 TQImport3XLSx

2.12.1 TQImport3XLSx Reference

Unit


[QImport3XLSx](#)

Description

The *TQImport3XLSx* component is intended for importing the MS Excel e-tables to the dataset.

2.12.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

 [NeedFillMerge](#)

[ImportRecCount](#)

 [Map](#)

 [LoadHiddenSheets](#)

 [SkipFirstRows](#)

 [SheetName](#)

2.12.2.1 Map

```
property Map: TStrings;
```

Description

To set the correspondence between the dataset fields and the Excel 2007 table cells you should define the *Map* property in the following way:

```
FieldName=CellRange
```

You can define the CellRange string depending on your needs.

Separate cells

To import separate cells, define the CellRange string as set of cell identifiers, e.g. A1, B2, C3, separated by semicolon.

Example

```
Field1=A1  
Field1=A1;B2;C3;
```

Column

To import entire column or its part, define the string in the following format:

```
FieldName=FirstCell-LastCell
```

Example

<u>Example</u>	<u>Imported cells</u>
<i>Field1=A1-A10</i>	From A1 up to A10
<i>Field1=A10-A1</i>	From A10 down to A1
<i>Field1=COLSTART-</i>	From the first cell with data in the column A up to A10

<i>Field1=A10-</i>	From A10 down to the first cell with data in the column A
--------------------	---

<i>Field1=A10-</i>	From A10 up to the last cell with data in the column A
--------------------	--

Field1=COLFINISH- From the last cell with data in the column A down to A10

Field1=A1- From the first up to the last cell with data in the column A

Field1=A1- From the last down to the first cell with data in the column A

Rows

To import entire row or its part, define the string in the following format:

FieldName=FirstCell-LastCell

Example

Imported cells

Field1=A1-D1

From A1 up to D1

Field1=D1-A1

From D1 down to A1

Field1=ROWSTART- From the first cell with data in the row 1 up to F1

Field1=F1-

From F1 down to the first cell with data in the row 1

Field1=A10-

From A10 up to the last cell with data in the row 10

Field1=ROWFINISH- From the last cell with data in the row 10 down to A10

Field1=10- From the first up to the last cell with data in the row 10

Field1=10- From the last down to the first cell with data in the row 10

Defining sheets

To define the specific sheet, use the following string format:

FieldName=[SheetName]FirstCell-LastCell

or

FieldName=[:SheetNumber]FirstCell-LastCell

Example

Imported cells

Field1=[Sheet1]A1- From A1 up to A10 at the sheet named Sheet1

Field1=[:3]A1-A10 From A1 up to A10 at the sheet number 3

You can mix cell ranges as you need.

Example

Field1=A1;A3;A10-A15;A15-D15;D15-COLFINISH;[Sheet1]COLFINISH-A1

2.12.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of rows, counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four rows of the source Excel 2007 table will not be imported.

2.12.2.3 LoadHiddenSheets

`property LoadHiddenSheets: Boolean;`

Description

The *LoadHiddenSheets* property defines whether hidden sheets should be loaded.

2.12.2.4 NeedFillMerge

`property` NeedFillMerge: **Boolean**;

Description

The *NeedFillMerge* property defines whether the merged cells should be filled.


2.12.2.5 SheetName

```
property SheetName: string;
```

Description

The *SheetName* property sets the name of the sheet.

2.12.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

2.13 TQImport3XML

2.13.1 TQImport3XML Reference

Unit


[QImport3XML](#)

Description

Use the *TQImport3XLS* component to import your data from the XML files created via the *Advanced Data Export* Component Suite (<http://www.sqlmanager.net/en/products/tools/advancedexport>) or *TClientDataSet* component.

2.13.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

[ImportRecCount](#)

 [SkipFirstRows](#)

 [WriteOnFly](#)

2.13.2.1 SkipFirstRows

```
property SkipFirstRows;
```

Description

The *SkipFirstRows* property defines the number of rows counted from the first in the source file which are not imported to the dataset. E.g. if you set `SkipFirstRows=4` then the first four rows of the source XML file are not imported.

2.13.2.2 WriteOnFly

```
property WriteOnFly : boolean;
```

Description

The *WriteOnFly* property determines how the source xml file will be read and imported. If *WriteOnFly* is set to *False* then the source file will be read and parsed completely, and after that the prepared data will be imported to the destination object (e.g. TDataSet, TDBGrid etc.). If *WriteOnFly* is set to true each tag will be read, parsed and imported separately without temporary saving to memory.

2.14 TQImport3XMLDoc

2.14.1 TQImport3XMLDoc Reference

Unit


[QImport3XMLDoc](#)

Description

The *TQImport3XMLDoc* component is intended for importing the any XML documents.

2.14.2 Properties

▶ Run-time only

 Key properties

[CommitAfterDone](#)

[CommitRecCount](#)

[DataSet](#)



[XPath](#)

[FieldFormats](#)

[FileName](#)

[Formats](#)

[ImportRecCount](#)



[Map](#)



[SkipFirstRows](#)



[DataLocation](#)

2.14.2.1 XPath

```
property XPath: qiString;
```

Description

The *XPath* property defines the XPath addressing parts of an XML document (path must be specified in the XPath format), e.g. /DATAPACKET/ROWDATA/ROW.

For more information on the XPath please visit <http://www.w3.org/TR/xpath>

2.14.2.2 SkipFirstRows

```
property SkipFirstRows: integer;
```

Description

The *SkipFirstRows* property defines the number of records counted from the first in the source table which are not imported to the dataset. E.g. if you set *SkipFirstRows*=4 then the first four records of the source XML document will not be imported.

2.14.2.3 Map

```
property Map: TStrings;
```

Description

To set the correspondence between the dataset fields and the XML file column you should define the *Map* property in the following way:

```
DataSet.FieldName1=1,  
DataSet.FieldName2=2, etc.
```

2.14.2.4 DataLocation


```
type TXMLDataLocation = (tlAttributes, tlSubNodes);
```

```
property DataLocation: TXMLDataLocation;
```

Description

The *DataLocation* property defines the location of data in XML document (attributes and subnodes text). E.g. if you set `DataLocation = tlAttributes` the data will be taken from the attributes.

2.14.3 Events

 Key events

[OnAfterImport](#)
[OnBeforeImport](#)
[OnBeforePost](#)
[OnImportError](#)
[OnImportRecord](#)
[OnNeedCommit](#)

Part



3 Units

3.1 QImport3 unit

Components

[TQImport3](#)

Objects

[TQImportFormats](#)

[TQImportRow](#)

[TQimportCol](#)

[TQImportFieldFormats](#)

[TQImportFieldFormat](#)

[TQImportReplacements](#)

[TQImportReplacement](#)

3.1.1 TQImportFormats object

Unit


[QImport3](#)










Description

The *TQImportFormats* class is used in all the descendant TQImport3 components and it contains properties, which determine the imported data formats.

3.1.1.1 Properties

▶ Run-time only

 Key properties

-  [BooleanFalse](#)
-  [BooleanTrue](#)
-  [DecimalSeparator](#)
-  [LongDateFormat](#)
-  [LongTimeFormat](#)
-  [NullValues](#)
-  [ShortDateFormat](#)
-  [ShortTimeFormat](#)
-  [ThousandSeparator](#)

3.1.1.1.1 BooleanFalse

property BooleanFalse: TStrings;

Description

The *BooleanFalse* property contains the variants of FALSE value representation in the imported table, e.g. '-', 'No', etc.

See also:

[BooleanTrue property](#)

3.1.1.1.2 BooleanTrue

property BooleanTrue: TStrings;

Description

The *BooleanTrue* property contains the variants of TRUE value representation in the imported table, e.g. '+', 'Yes', etc. When import to the boolean field of the dataset takes place, the imported string will be compared with all the strings of the BooleanTrue property, and if the imported string is not found, then the dataset field value will be false.

See also:

[BooleanFalse property](#)

3.1.1.1.3 DateSeparator

property DateSeparator: **char**;

Description

The *DateSeparator* property defines the character, delimiting months, days and years in the source date fields.

See also:

[TimeSeparator property](#)

3.1.1.1.4 DecimalSeparator

property DecimalSeparator: **char**;

Description

The *DecimalSeparator* property defines the character which denotes the decimal values in the imported float fields, e.g. '.' or ','.

See also:

[ThousandSeparator property](#)

3.1.1.1.5 LongDateFormat

property LongDateFormat: **string**;

Description

The *LongDateFormat* property defines the format of the imported long date fields, e.g. 'mm.dd.yy'.

See also:

[LongTimeFormat property](#)

[ShortDateFormat property](#)

[ShortTimeFormat property](#)

3.1.1.1.6 LongTimeFormat

property LongTimeFormat: **string**;

Description

LongTimeFormat defines the format of the imported long time format, e.g. '20:10:32'.

See also:

[LongDateFormat property](#)

[ShortDateFormat property](#)

[ShortTimeFormat property](#)

3.1.1.1.7 NullValues

property NullValues: TStrings;

Description

Use the *NullValues* property to set a value or a number of values which are interpreted as nulls on import.

3.1.1.1.8 ShortDateFormat

```
property ShortDateFormat: string;
```

Description

The *ShortDateFormat* property defines the format of the imported long date fields, e.g. '02.28.2002'.

See also:

[LongDateFormat property](#)

[LongTimeFormat property](#)

[ShortTimeFormat property](#)

3.1.1.1.9 ShortTimeFormat

```
property ShortTimeFormat: string;
```

Description

The *ShortTimeFormat* property defines the format of the imported short time fields, e.g. '20:28'.

See also:

[LongDateFormat property](#)

[LongTimeFormat property](#)

[ShortDateFormat property](#)

3.1.1.1.10 ThousandSeparator

property ThousandSeparator: **char**;

Description

The *ThousandSeparator* property defines the character which separates the digit groups in the imported fields, e.g. ' ' or ','.

See also:

[DecimalSeparator property](#)

3.1.1.1.11 TimeSeparator

property TimeSeparator: **char**;

Description

The *TimeSeparator* property defines the character delimiting minutes and hours in the source date fields.

See also:

[DateSeparator property](#)

3.1.2 TQImportRow object

Unit

[QImport3](#)

Description

The *TQImportRow* object contains the currently imported table row which was already delivered from the source table, but have not yet been posted to the dataset. This object is used in the [OnBeforePost](#) event.

3.1.2.1 Properties

- ▶ Run-time only
- ▶  Key properties
- ▶  [Items](#)

3.1.2.1.1 Items

property Items: [TQImportCol](#);

Description

The *Items* property contains fields of the currently imported table row which was already delivered from the source table, but have not yet been posted to the dataset. These data are stored as a set of [TQImportCol](#) values, which contain information of each certain field of the table row.

Use this property in processing the [OnBeforePost](#) and [OnUserDefinedImport](#) events.

See also:

[TQImportCol object](#)

[OnBeforePost event](#)

3.1.3 TQImportCol object

Unit


[QImport3](#)

Description

Each *TQImportCol* object contains one certain field of the currently imported table row ([TQImportRow](#) object).

3.1.3.1 Properties

▶ Run-time only

 Key properties

▶  [Name](#)

▶  [Value](#)

3.1.3.1.1 Name

property Name: **string**;

Description

The *Name* property determines the [TQImportCol](#) field as it contains the column name of the currently imported table row ([TQImportRow](#) object).

See also:

[TQImportRow component](#)

[Value property](#)

3.1.3.1.2 Value

property Value: `{ $IFDEF UNICODE } WideString { $ELSE } string { $ENDIF } ;`

Description

The *Value* property contains the string value of the [TQImportCol](#) field.

See also:

[TQImportRow component](#)

[Name property](#)

3.1.4 TQImportFieldFormat object

Unit

[QImport3](#)

Description

TQImportFieldFormat represents an item in the [TQImportFieldFormats](#) collection. The properties of this object allow you to set various data formats for the certain dataset field. These properties are read in the definite order: generator properties ([GeneratorValue](#) and [GeneratorStep](#)), [ConstantValue](#), Null properties ([NullValue](#) and [DefaultValue](#)), Quotation properties ([QuoteAction](#), [LeftQuote](#) and [RightQuote](#)) and String Conversion properties ([CharCase](#) and [CharSet](#)).

Thus, if you set *GeneratorStep* to a value other than 0, no other properties are taken into consideration; if you set *ConstantValue* or *NullValue* and *DefaultValue* properties, then you can set only Quotation properties and String Conversion properties.

3.1.4.1 Properties

▶ Run-time only

🔑 Key properties

- 🔑 [CharCase](#)
- 🔑 [CharSet](#)
- 🔑 [ConstantValue](#)
- 🔑 [DefaultValue](#)
- 🔑 [FieldName](#)
- 🔑 [GeneratorStep](#)
- 🔑 [GeneratorValue](#)
- 🔑 [NullValue](#)
- 🔑 [QuoteAction](#)
- 🔑 [LeftQuote](#)
- 🔑 [RightQuote](#)
- 🔑 [Replacements](#)

3.1.4.1.1 CharCase

```
type TQImportCharCase = (iccNone, iccUpper, iccLower, iccUpperFirst, iccUpperFirstWord);
```

```
property CharCase: TQImportCharCase;
```

Description

The *CharCase* property defines the character case of the field data. The following values are available:

<i>iccNone</i>	keep the original character case
<i>iccUpper</i>	set the whole string to upper case
<i>iccLower</i>	set the whole string to lower case
<i>iccUpperFirst</i>	set the first letter of the string to upper case
<i>iccUpperFirstWord</i>	set the first letter of each word to upper case

See also:

[CharSet property](#)

3.1.4.1.2 CharSet

```
type TQImportCharSet = (icsNone, icsAnsi, icsOem);
```

```
property CharSet: TQImportCharSet;
```

Description

The *CharSet* property defines the character set of the field data. The following values are available:

<i>icsNone</i>	save the original character set
<i>icsAnsi</i>	set the field character set to ANSI
<i>icsOem</i>	set the field character set to OEM

See also:

[CharCase property](#)

3.1.4.1.3 ConstantValue

```
property ConstantValue: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

The *ConstantValue* property defines the value of the constant field.

3.1.4.1.4 DefaultValue

```
property DefaultValue: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

Use *DefaultValue* to define the value to set when the value set as [NullValue](#) is imported.

See also:

[NullValue property](#)

3.1.4.1.5 `FieldName`

```
property FieldName: string;
```

Description

The *FieldName* property contains the name of the field to apply the formats to.

3.1.4.1.6 GeneratorStep

property GeneratorStep: **integer**;

Description

The *GeneratorStep* property defines the step of the autoincrement field.

See also:

[GeneratorValue property](#)

3.1.4.1.7 GeneratorValue

property GeneratorValue: **integer**;

Description

The *Generator* value defines the initial value of the autoincrement field.

See also:

[GeneratorStep property](#)

3.1.4.1.8 NullValue

```
property NullValue: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

Use *NullValue* to set the value understood as Null in the imported string. If such value is imported, then the value of the [DefaultValue](#) property will be set.

See also:

[ConstantValue property](#)

[DefaultValue property](#)

3.1.4.1.9 QuoteAction

```
type TQuoteAction = (qaNone, qaAdd, qaRemove);
```

```
property QuoteAction: TQuoteAction;
```

Description

The *QuoteAction* property defines the action taken on importing the quotation string to the field. If this property is *qaNone* then no action is taken, if it is *qaAdd* then quotation marks will be added to the imported string, and if it is *qaRemove* then the quotation marks will be removed from the imported quotation string.

See also:

[LeftQuote property](#)

[RightQuote property](#)

3.1.4.1.10 LeftQuote

```
property LeftQuote: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

The *LeftQuote* property defines the characters which denote quoting in the imported string, e.g. '<<'.

See also:

[QuoteAction property](#)

[RightQuote property](#)

3.1.4.1.11 RightQuote

```
property RightQuote: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

The *RightQuote* property defines the characters which denote quoting in the imported string, e.g. '>>'.

See also:

[QuoteAction property](#)

[LeftQuote property](#)

3.1.4.1.12 Replacements

property Replacements: [TQImportReplacements](#);

Description

Use this property to define the imported field values that are to be replaced and the new values for this fields. Use the [TQImportReplacements](#) collection items for to define the text to find and to replace it with, and also the case-sensitivity.

See also:

[TQImportReplacements object](#)

3.1.5 TQImportFieldFormats object

Unit

[QImport3](#)

Description

The *TQImportFieldFormats* object is the collection of [TQImportFieldFormat](#) objects, which allow you to define data formats for each dataset field.

3.1.5.1 Properties

- ▶ Run-time only
- ▶  Key properties
- ▶  [Items](#)

3.1.5.1.1 Items

property Items: TQImportFieldFormat;

Description

Use *Items* to access individual items in the collection. The value of the *Index* parameter corresponds to the *Index* property of [TQImportFieldFormat](#). It represents the position of the item in the collection.

3.1.6 TQImportReplacement object

Unit


[QImport3](#)

Description

Use the *TQImportReplacement* object to set the replacement lists for each imported field.

3.1.6.1 Properties

▶ Run-time only

 Key properties

 [IgnoreCase](#)
 [ReplaceWith](#)
 [TextToFind](#)

3.1.6.1.1 IgnoreCase

property IgnoreCase: **boolean**;

Description

The *IgnoreCase* property defines if search for the [TextToFind](#) text is case-sensitive or not.

3.1.6.1.2 ReplaceWith

```
property ReplaceWith: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

The *ReplaceWith* property contains value to replace imported text from the [TextToFind](#) property.

See also:

[TextToFind](#) property

3.1.6.1.3 TextToFind

```
property TextToFind: {$IFDEF UNICODE}WideString{$ELSE}string{$ENDIF};
```

Description

The *TextToFind* property defines the text to be found during import and replaced with the [ReplaceWith](#) property value.

See also:

[ReplaceWith property](#)

3.1.7 TQImportReplacements object

Unit

[QImport3](#)

Description

The *TQImportReplacements* object is the collection of [TQImportReplacement](#) objects, which allow you to set the list of the replacement values for each imported field.

3.1.7.1 Properties

- ▶ Run-time only
- ▶  Key properties
- ▶  [Items](#)

3.1.7.1.1 Items

property Items[Index: **integer**]: [TQImportReplacement](#);

Description

Use *Items* to access individual items in the collection. The value of the *Index* parameter corresponds to the *Index* property of [TQImportReplacement](#). It represents the position of the item in the collection.

3.2 QImport3Access unit

Components

[TQImport3Access](#)

3.3 QImport3ASCII unit

Components

[TQImport3ASCII](#)

3.4 QImport3DataSet unit

Components

[TQImport3DataSet](#)

3.5 QImport3DBF unit

Components

[TQImport3DBF](#)

3.6 QImport3Docx unit

Components

[TQImport3Docx](#)

3.7 QImport3HTML unit

Components

[TQImport3HTML](#)

3.8 QImport3ODS unit

Components

[TQImport3ODS](#)

3.9 QImport3ODT unit

Components

[TQImport3ODT](#)

3.10 QImport3Wizard unit

Components

[TQImport3Wizard](#)

3.11 QImport3XLS unit

Components

[TQImport3XLS](#)

3.12 QImport3XLSx unit

Components

[TQImport3XLSx](#)

3.13 QImport3XML unit

Components

[TQImport3XML](#)

3.14 QImport3XMLDoc unit

Components

[TQImport3XMLDoc](#)

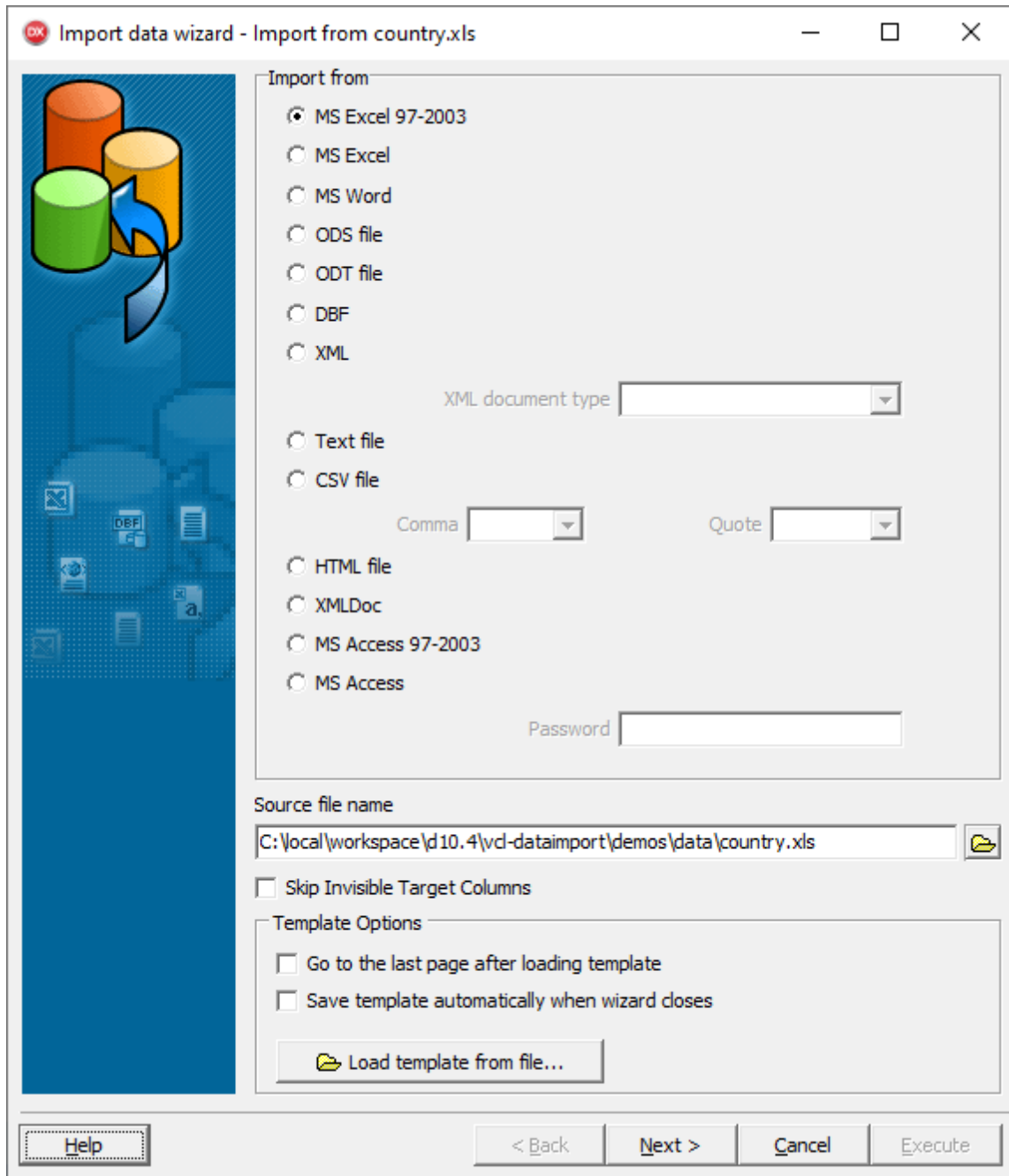
Part



4 Advanced Data Import Wizard Guide

EMS Advanced Data Import Wizard guides you through the process of importing data to the dataset.

First specify the format of the source file. For details refer to [Supported file formats](#). If you import data from the CSV file you should also define the character, delimiting columns in the source table, and characters, which stand for left and right quotation marks in the source table.



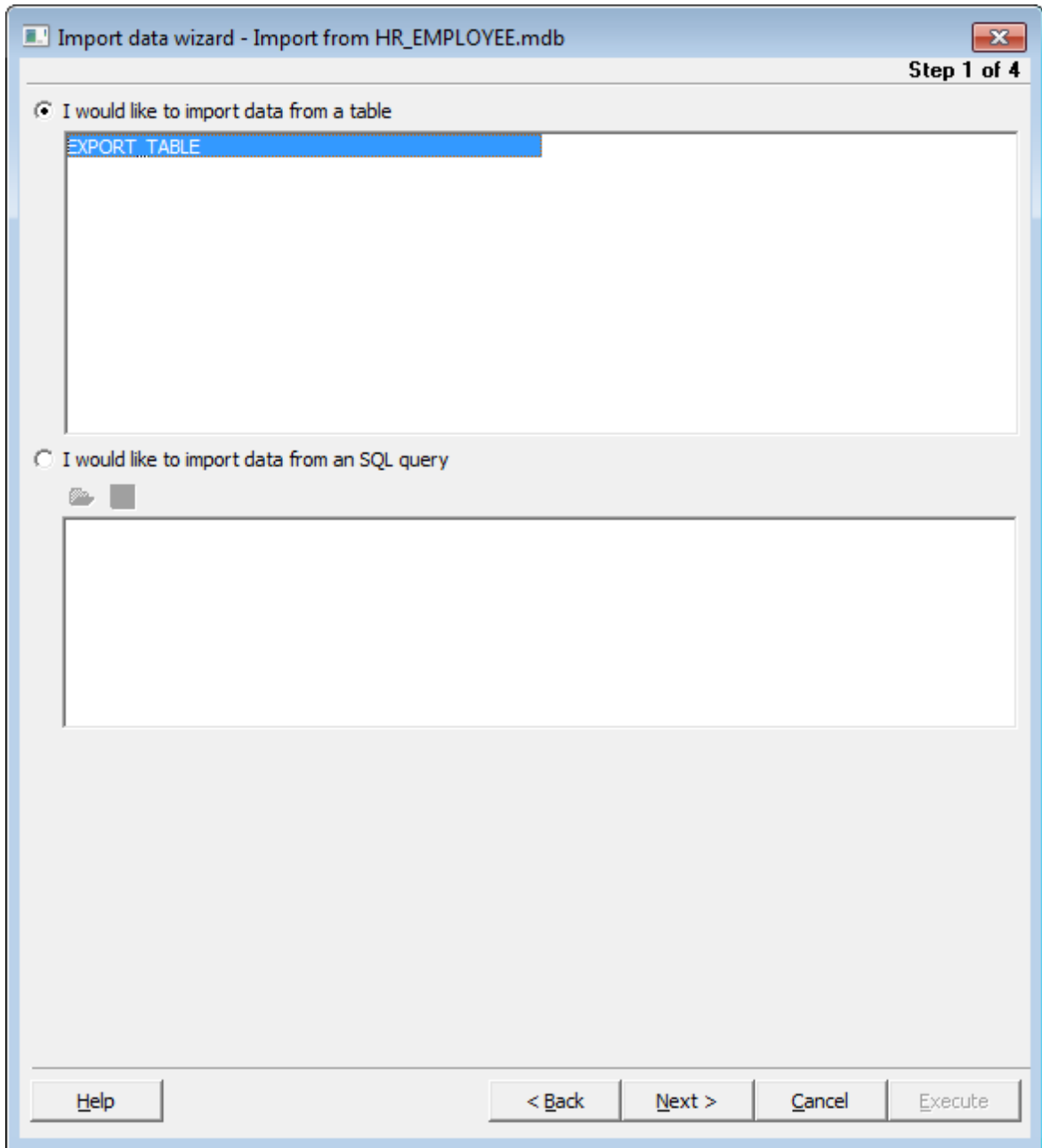
Set the name of the file to import data from in the **Source file name** edit field.

Load template from file - use this button to fasten the process of configuring your current import by loading previously saved template with various import options (source filename, field correspondence, format options, etc) from file.

Click 'Next' to proceed to the first step.

4.1 Selecting Data Source

This step of the wizard is only available when you are importing data from *MS Access*. First select the data source for import - MS Access table or SQL query. If you choose import from a table, then you should select a table name from the list, if you choose to import from a query, you should set the query SQL text in the lower area, e.g. `SELECT * FROM COUNTRY WHERE CONTINENT='South America'`.



Click 'Next' to proceed to the next step.

4.2 Setting Correspondence

This step of the wizard allows you **to set correspondence** between columns of the source file and fields of the table they are imported to.

- [MS Excel](#)
- [MS Access](#)
- [DBF](#)
- [TXT](#)
- [CSV](#)

To get more information about the file formats, see the [Supported file formats](#) page.

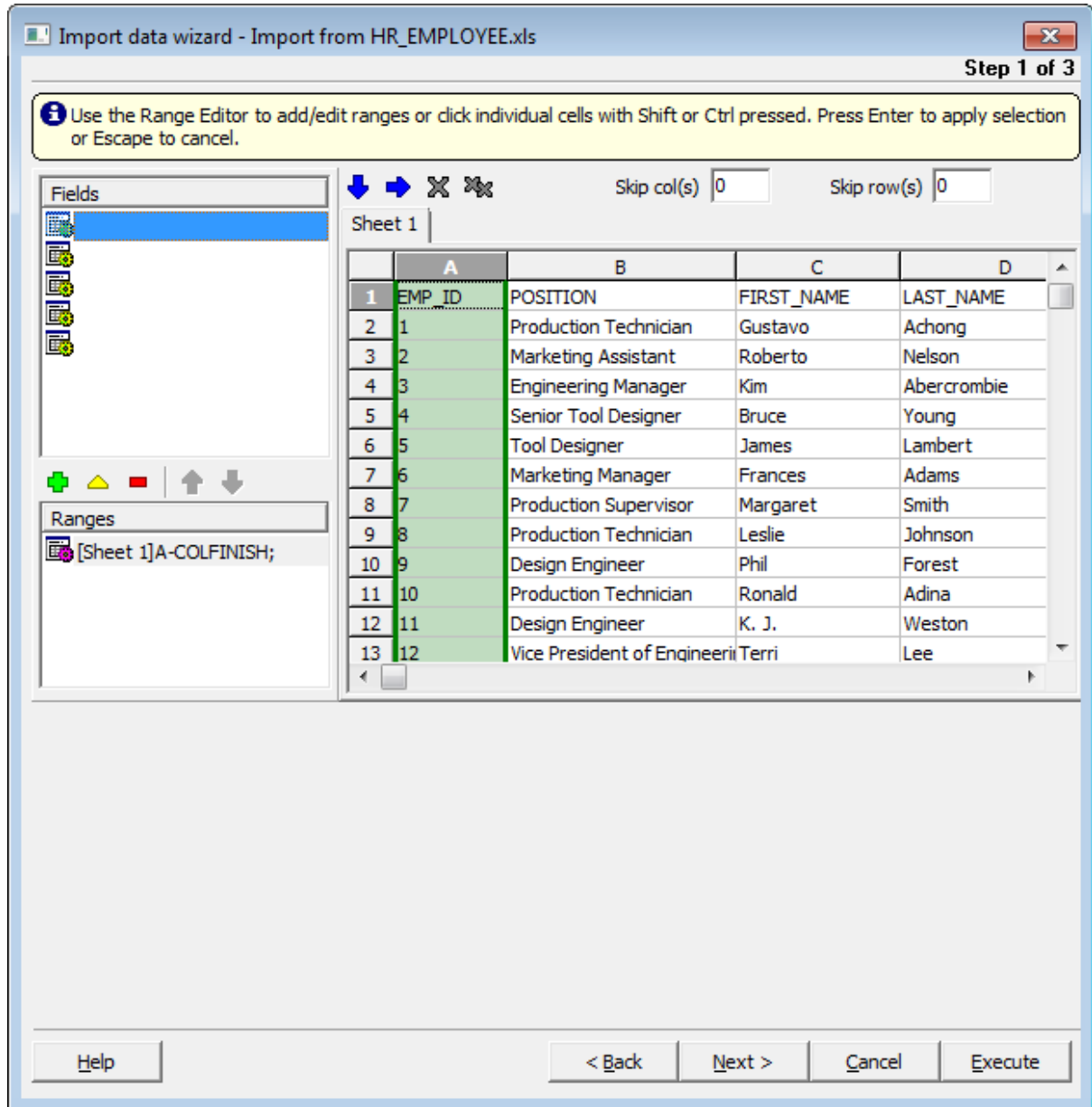
Click 'Next' to continue or click 'Back' to return to the previous step.

4.2.1 MS Excel

First select the dataset field from the 'Fields' drop-down list. Then select the corresponding cells by clicking row or column caption (to select the whole row or column) or clicking the individual cells, using Shift and Ctrl keys.

You can also define the corresponding cells manually in the 'Cells' edit field. Use semicolon to separate multiple cells.

After you select all the corresponding cells for the current table field, proceed to another field and repeat all these operations for each dataset field.



If you don't want some first rows or columns of the source table to be imported, set the number of such rows in the 'Skip ... first row(s)' and 'Skip first ... col(s)' edit fields.

Auto fill cols - use this button to set the correspondence between the source table

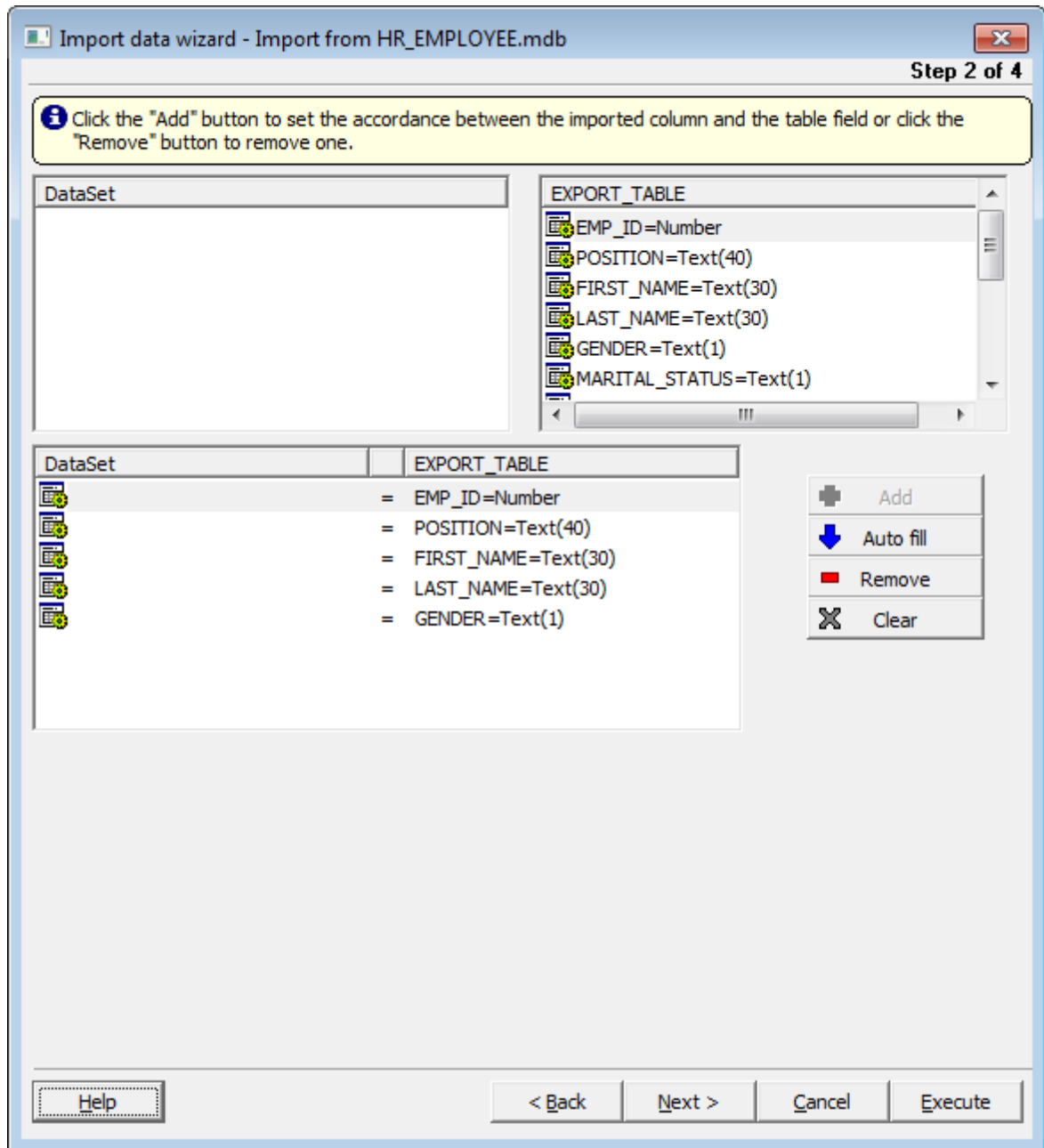
columns and the dataset fields automatically. It is convenient if they are ordered in the same way. First table column will correspond to the first dataset field, second column to the second field, etc. If quantity of the table columns exceeds quantity of the dataset fields, then the last columns will have no correspondence.

Auto fill rows - use this button to set the correspondence between the source table rows and the dataset fields automatically. It is convenient if they are ordered in the same way. First table row will correspond to the first dataset field, second row to the second field, etc. If quantity of the table rows exceeds quantity of the dataset fields, then the last rows will have no correspondence.

4.2.2 MS Access

First select the dataset field from the 'DataSet' list. Then select the corresponding field in the '<TABLE_NAME>' or 'Custom query' list.

Click button 'Add' to link these fields. These fields will be added to the list at the bottom of the window. Repeat these operations for each dataset field. If you want to remove the accordance you set, select the linked fields in the bottom list and click button 'Remove'.



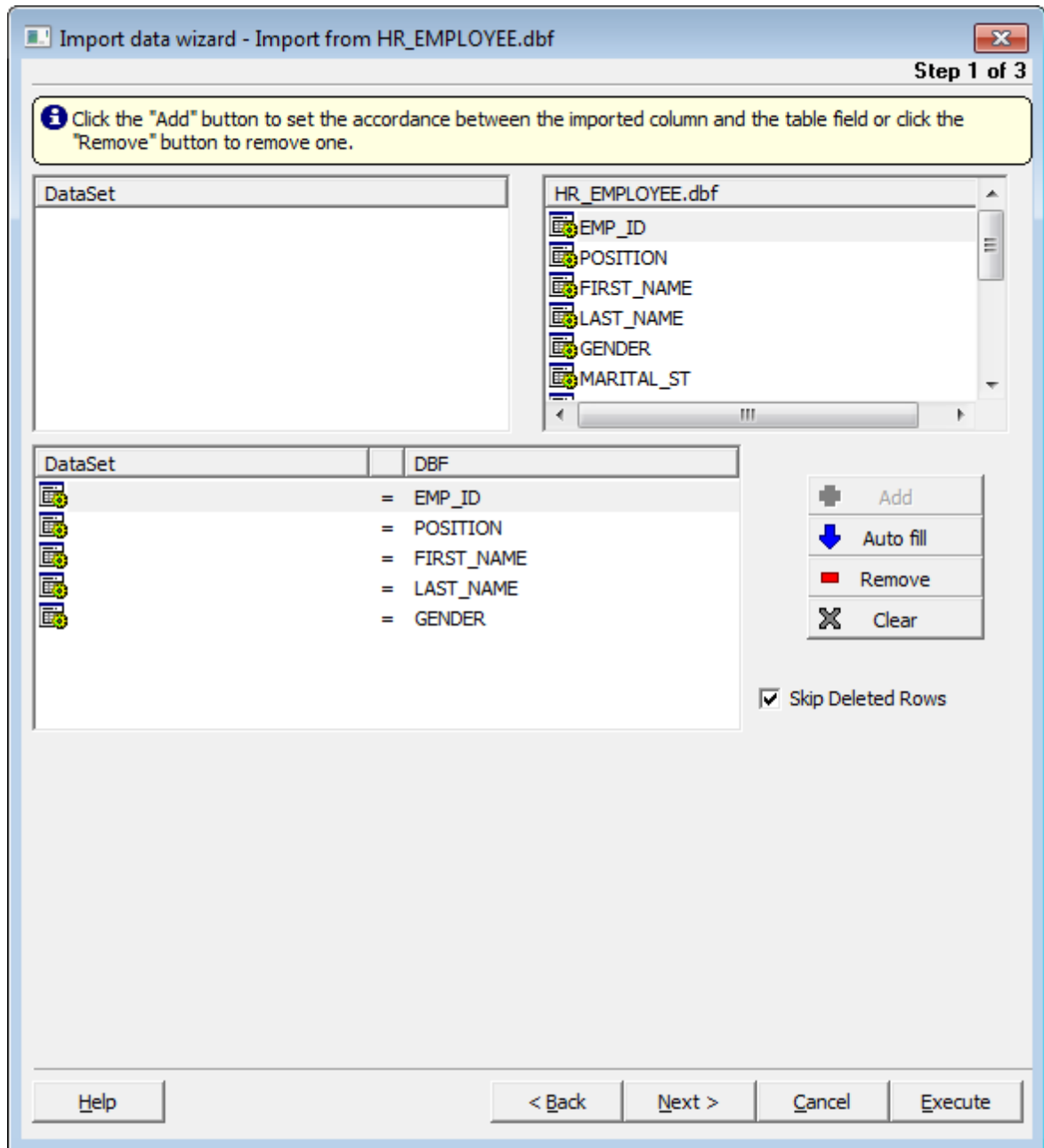
Auto fill - use this button to set the correspondence between the source table fields and the dataset fields automatically. It is convenient if they are ordered in the same way. First table field will correspond to the first dataset field, second field to the second, etc. If quantity of the table fields exceeds quantity of the dataset fields, then the last

fields will have no correspondence.

4.2.3 DBF

First select the dataset field from the 'DataSet' list. Then select the corresponding field in the '<TABLE_NAME>.DBF' list.

Click button 'Add' to link these fields. These fields will be added to the list at the bottom of the window. Repeat these operations for each dataset field. If you want to remove the accordance you set, select the linked fields in the bottom list and click button 'Remove'.

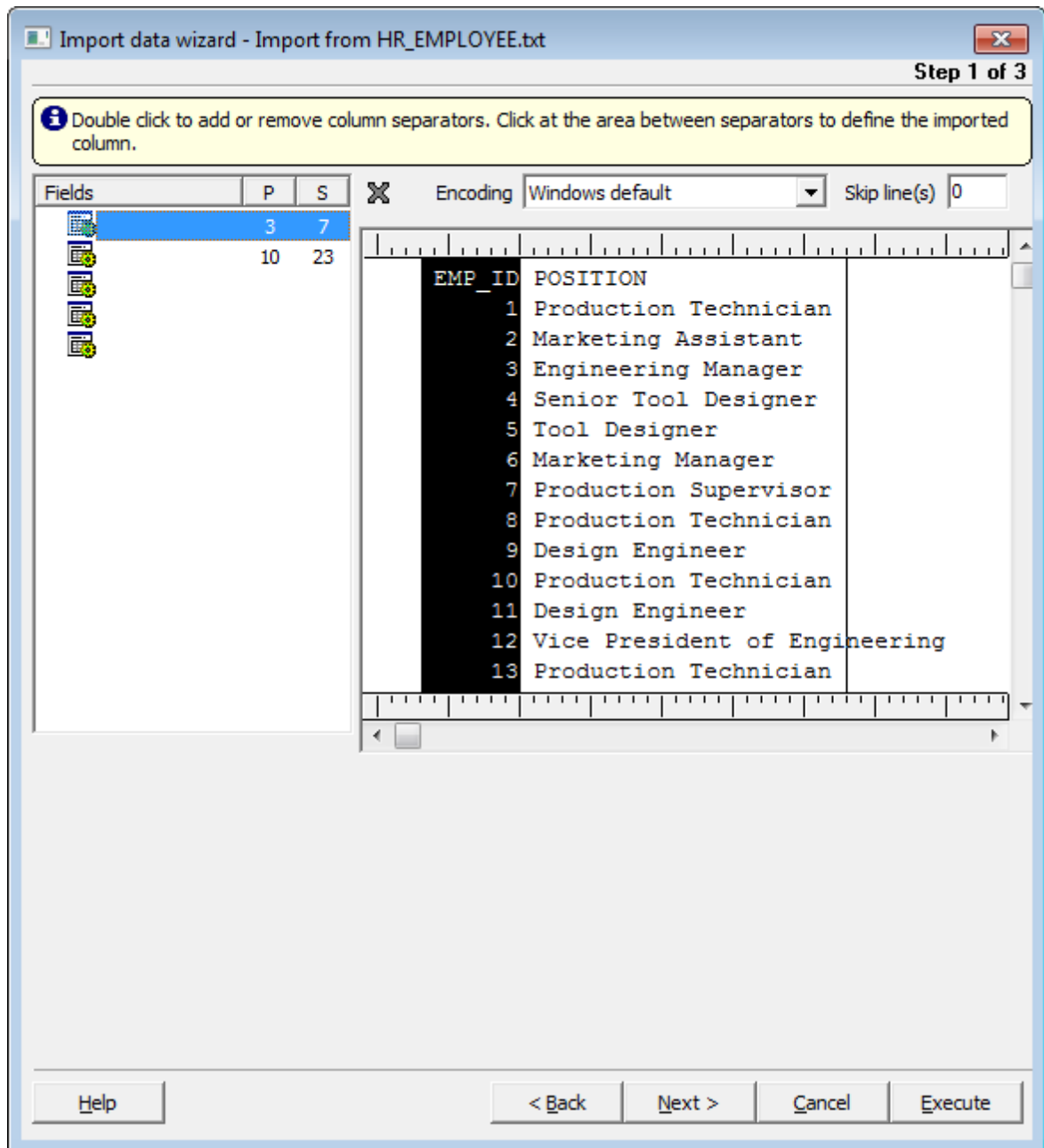


Auto fill - use this button to set the correspondence between the source table fields and the dataset fields automatically. It is convenient if they are ordered in the same way. First table field will correspond to the first dataset field, second field to the second field,

etc. If quantity of the table fields exceeds quantity of the dataset fields, then the last fields will have no correspondence.

4.2.4 TXT

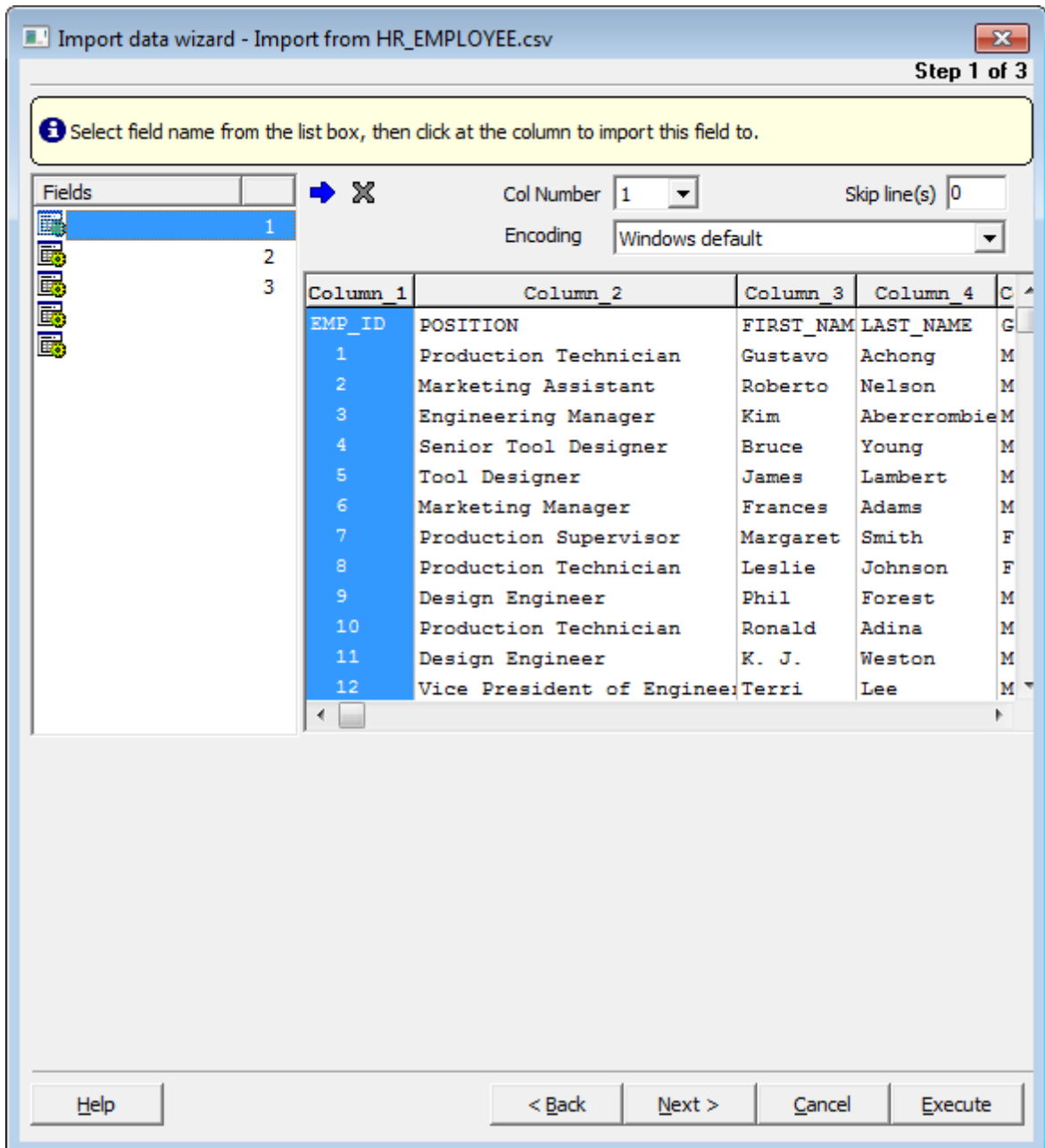
First select the dataset field from the 'Fields' drop-down list. Then set two separator lines to delimit the source table column. Click to add a separator, double-click to delete one. Drag separators to change the column width. You can also set the column starting position and the column width manually in the edit fields 'Pos' and 'Size'. When you set the separators correctly, proceed to another field and repeat these operations for each dataset field.



If you don't want some first rows of the source table to be imported set the number of such rows in the 'Skip ... first line(s)' edit field.

4.2.5 CSV

If the delimiter you have defined on the first step was found in the source table, then you will find the table columns already separated and delimited. Select the dataset field from the 'Fields' drop-down list. Then click the corresponding source table column or set the 'Col' value manually. Repeat these operations for each dataset field.



If you don't want some first rows of the source table to be imported set the number of such rows in the 'Skip ... first line(s)' edit field.

Auto fill - use this button to set the correspondence between the source table columns and the dataset fields automatically. It is convenient if they are ordered in the same way.

First table column will correspond to the first dataset field, second column to the second field, etc. If quantity of the table columns exceeds quantity of the dataset fields, then the last columns will have no correspondence.

4.3 Specifying Base Formats

Regional settings

Decimal separator - set a character, which delimits the decimal parts of the imported numbers.

Thousand separator - set a character, which separates the digit groups in the imported numbers.

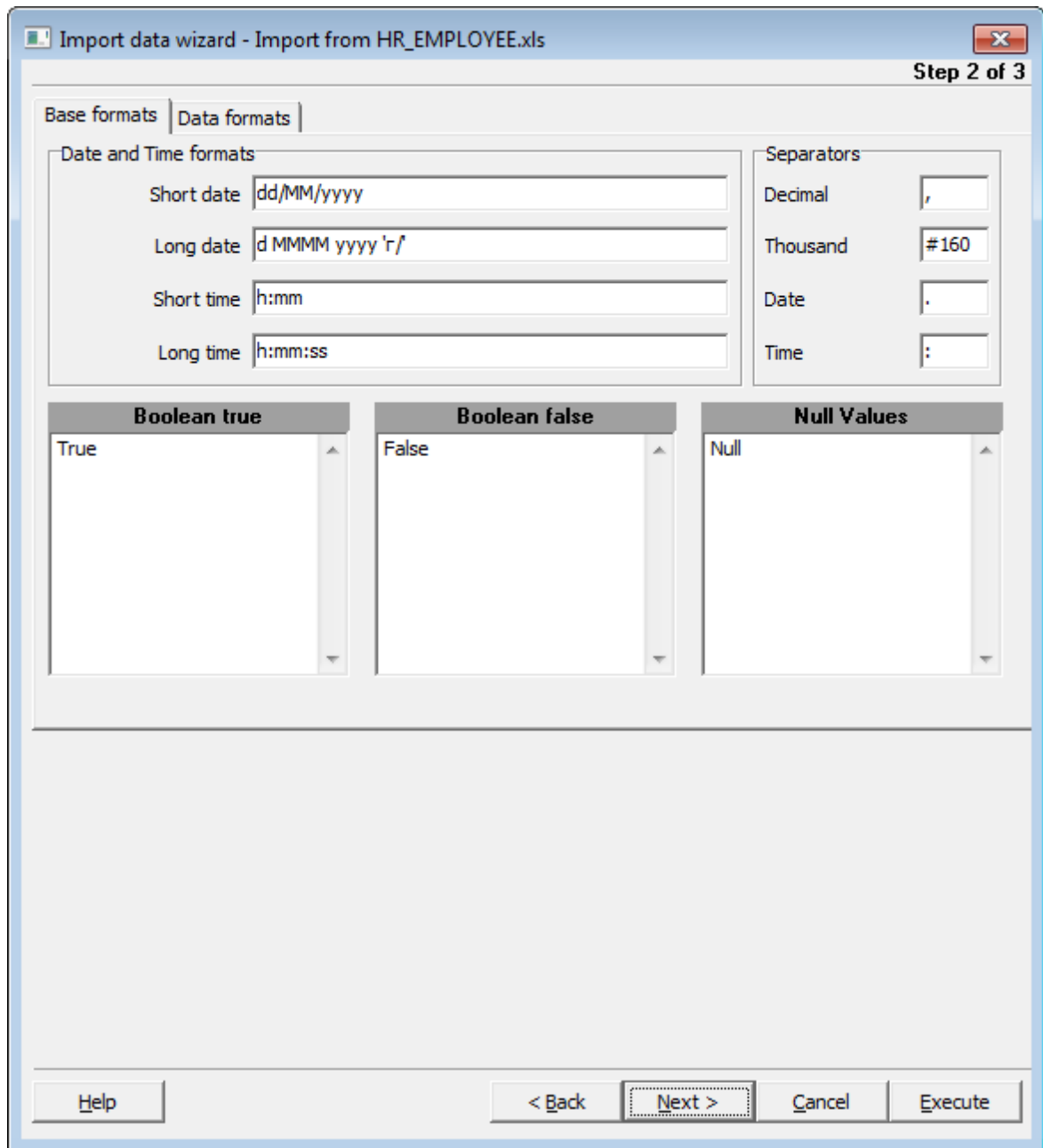
Short date format, Long date format, Short time format, Long time format - use these edit fields to set the date and time formats.

Format options

Left quotation - set a character or a number of characters, which denote quoting in the imported strings.

Right quotation - set a character or a number of characters, which denote unquoting in the imported strings.

Quotation action - you can select 'Add' to add quotation marks to each imported string or 'Remove' to remove all the quotation marks from the imported strings.



Boolean true - set some variants of TRUE value representation in the imported table, e. g. 'Yes' or '+'. Use new line for each new variant.

Boolean false - set some variants of FALSE value representation in the imported table, e.g. 'No' or '-'. Use new line for each new variant.

Data Formats

On this tab you can customize the format of each imported field in case when additional formatting is required. Select the field in the 'Field Name' list and set its format in the proper edit fields.

Tuning

Generator Value - use this edit field to set the initial value of the autoincrement field.

Generator Step - set the step of the autoincrement field. If it is 0 then the value of the generator will be ignored.

Constant Value - use this edit field to set the constant value of the field.

Null Value - set the value, which will be understood as NULL to set the default value.

Default Value - set the default value of the NULL field.

Left quotation - set a character or a number of characters, which denote quoting in the imported string.

Right quotation - set a character or a number of characters, which denote unquoting in the imported string.

Quotation action - you can select 'Add' to add quotation marks to the imported string, 'Remove' to remove all the quotation marks from the imported string or 'As is' to save the original quotation marks.

Char case - set the case of the imported string. 'As is' saves the original string, 'Upper' sets the whole string to upper case, 'Lower' sets the whole string to lower case, 'UpperFirst' sets the first letter of the string to upper case, 'UpperFirstWord' sets the first letter of each word to upper case.

Char set - set the char set of the imported string to ANSI or OEM. 'As is' saves the original string char set.

Replacements

Use this tab to set the replacement list for the selected field. Fill the list in the following format:

<Value-to-find>=<Replace-with-Value>.

E.g., you set the following replacements for the field 'Continent':

'South America'='S. America'

'North America'='N. America',

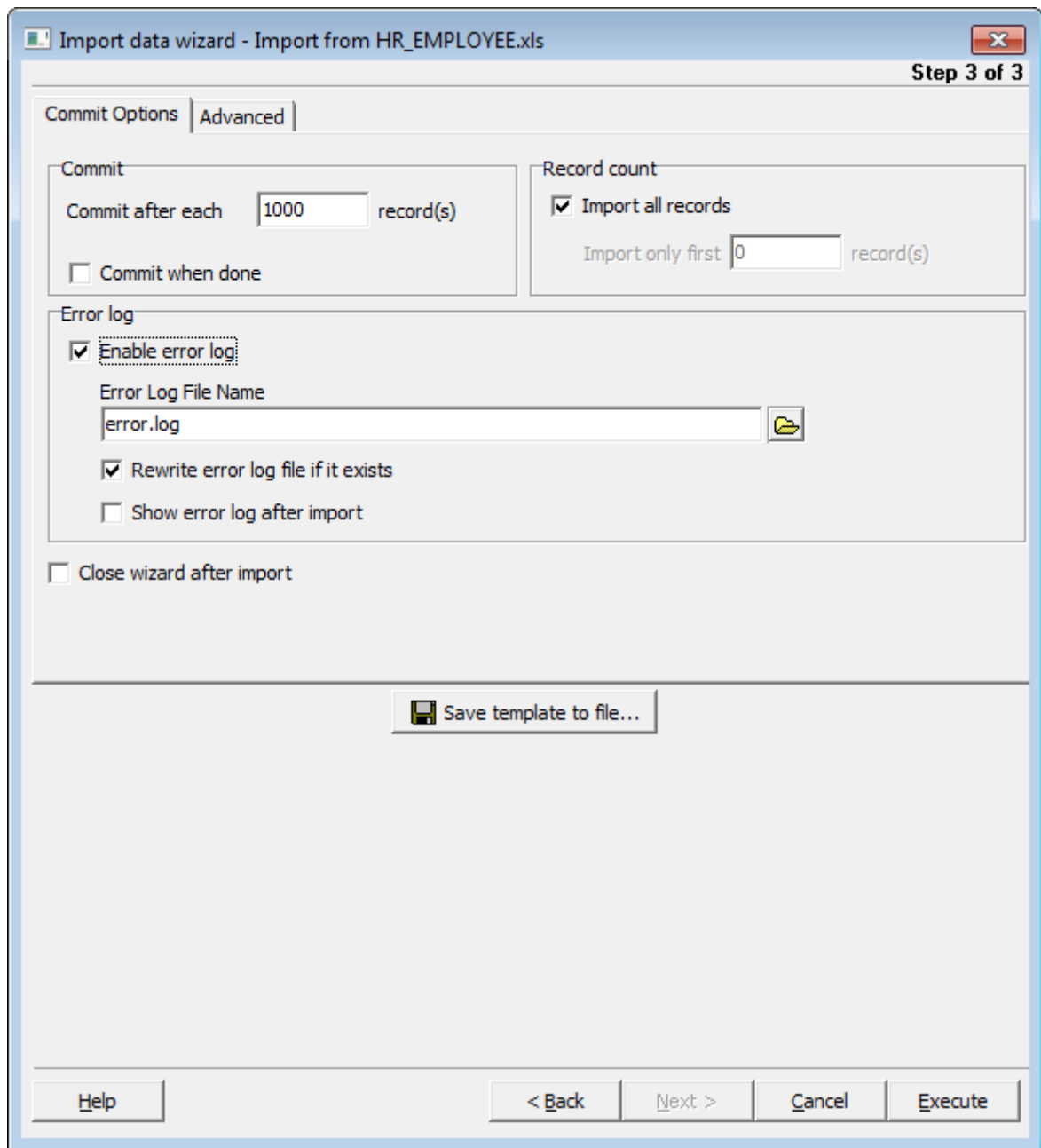
that means, that all the values 'South America' of the field 'Continent' will be replaced with values 'S. America', and values 'North America' will be replaced with 'N. America' respectively.

Click 'Next' to continue or click 'Back' to return to the previous step.

4.4 Setting Import Options

Commit

Commit after done - check this option to commit the transaction after import is finished.
Commit after ... records - set a number of records, after importing which the transaction shall be committed.



Record count

Import all records - check this option to import all records from the source table.

Import only ... first record(s) - if you don't want all the records to be imported, set a number of records to import them from the source file. In this case only this number of records (beginning from the first one) will be imported.

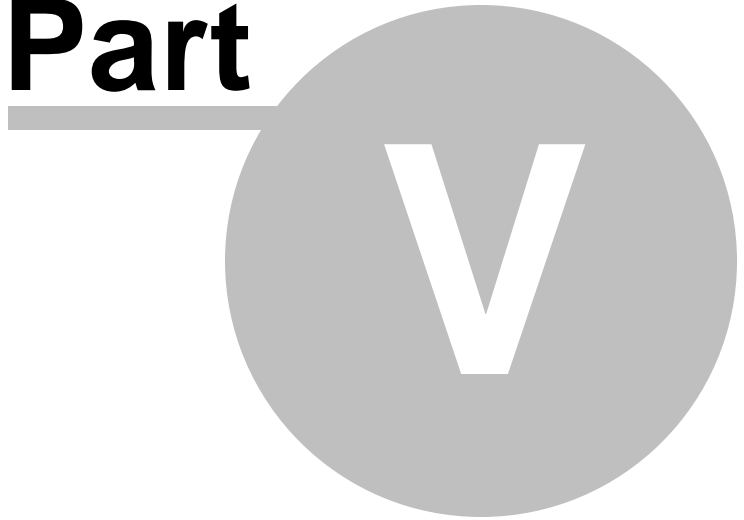
Miscellaneous

Add Type - select the method of adding data to the dataset: Append or Insert.

Save template to file - use this button to save current import options (source filename, field correspondence, format options, etc) to file to fasten the process of configuring your next import.

Click 'Execute' when you are done to start import, click 'Back' to return to any step of preparing import or click 'Cancel' to cancel import.

Part



5 Appendix

5.1 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 97-2003.

- **MS Access**

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

- **MS Word**

One of the most popular text processing formats used by Microsoft® Word (*.docx). The result files are fully compatible with Microsoft® Word.

- **RTF**

Rich Text Format (*.rtf) supported by many text processing programs (e.g. WordPad).

- **HTML**

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

- **PDF**

A standard format in electronic publishing (*.pdf).

- **Text file**

Plain text file format (*.txt).

- **CSV file**

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

- **DIF file**

Data Interchange File (*.dif) format.

- **SYLK**

Symbolic Links (*.slk) file format.

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

- **LaTeX**

A specific file format (*.tex) which is a popular (especially among mathematicians and physicists) macroextension of *TeX* pack developed by D.Knut.

- **XML**

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

- **DBF**

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).

- **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.

Credits

Software Developers:

Alexey Butalov

Alex Paclin

Alexey Saybel

Dmitry Ziborov

Alexey Gusev

Technical Writers:

Dmitry Doni

Semyon Slobodenyuk

Olga Ryabova

Cover Designer:

Tatyana Makurova

Translators:

Anna Shulkina

Sergey Fominykh

Team Coordinators:

Alexey Butalov

Alexander Chelyadin

Roman Tkachenko