

SQL Manager.net™

EMS® Software Development



Data Export for Interbase/Firebird User's Manual

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Data Export for Interbase/Firebird

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Document generated on: 08.07.2025

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Part



1 Welcome to EMS Data Export!

EMS Data Export for Interbase/Firebird is a powerful program to export your data quickly from Interbase/Firebird databases to any of 20 available formats, including MS Access, MS Excel, MS Word (RTF), HTML, XML, PDF, TXT, CSV, DBF, ACCDB and more. Data Export for Interbase/Firebird includes a wizard which allows you to set export options for each table visually (destination file name, exported fields, data formats, and many others) and a command-line utility to export data from tables and queries in one-touch.

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

Key features

- Exporting data to most popular formats: MS Excel, MS Access, MS Word, RTF, HTML, PDF, XML, TXT, DBF, CSV, ODF, SYLK, DIF, LaTeX, SQL, ACCDB, Clipboard and others
- Exporting data from several tables, views or queries at the same time
- Selecting fields to export and changing their order
- Adjustable parameters for each exported table and specific parameters for each output format
- Saving all export parameters set on current wizard session to the configuration file
- Command-line utility to automate your export jobs using the configuration file
- Latest Interbase/Firebird version support
- Connecting through the SSH tunnel
- User-friendly localizable wizard interface

Product information

Homepage: <https://www.sqlmanager.net/products/ibfb/dataexport>

Support Ticket <https://www.sqlmanager.net/support>

System:

Register online at: <https://www.sqlmanager.net/products/ibfb/dataexport/buy>

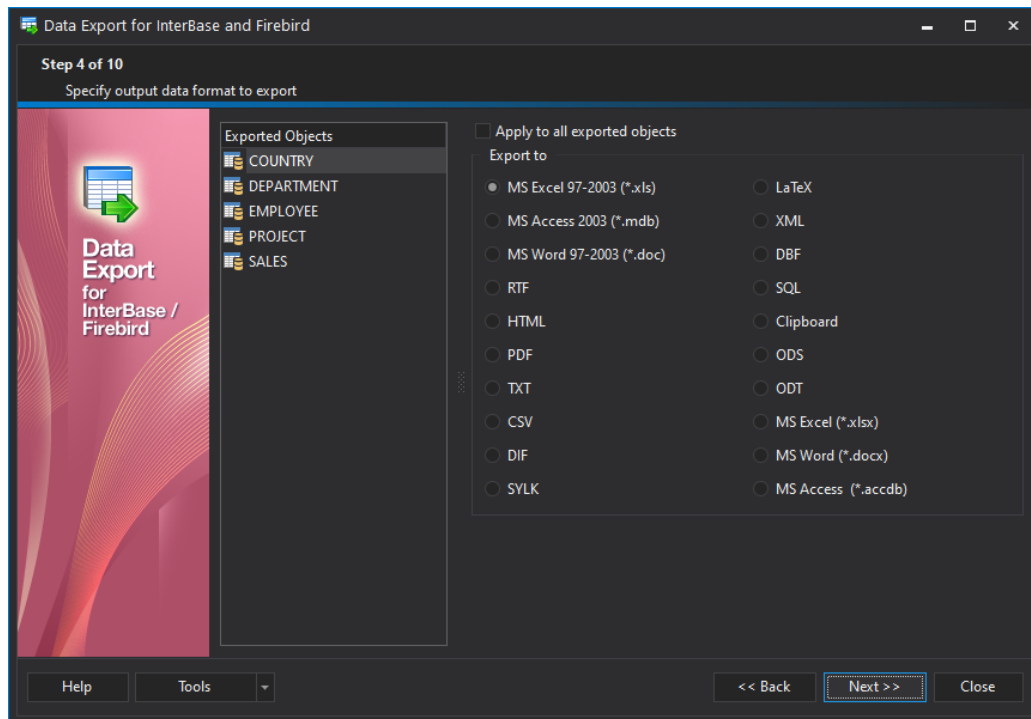
1.1 Version 4.0 What's new

Data Export for Interbase/Firebird 4.0

Release date
April 25, 2023

What's new in EMS Data Export?

- Dark interface theme added.



- SSL settings added for Interbase/Firebird.
- Support for Unicode object names implemented.
- Support for Windows 11 ARM implemented.
- Updated SSH library with support for CDSA, Ed25519 and Keyboard-interactive authentication method.
- Improve support for Firebird 4 server version.
- SFTP implemented for uploading files.
- Temporary files are now removed from TEMP folder automatically.
- The issue of exporting images into DOCX files resolved.
- Many other improvements and bug-fixes.

See also:

[Version history](#)^[13]

1.2 • System requirements

- Microsoft Windows XP, Microsoft Windows 2003 Server, Windows® 2008 Server, Microsoft Windows Server 2008 R2, Microsoft Windows Server 2012, Microsoft Windows Server 2012 R2, Microsoft Windows Server 2016, Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows 8/8.1, Microsoft Windows 10, Microsoft Windows 11, Microsoft Windows 11 ARM
- 512 MB RAM or more
- 50 Mb of available HD space for program installation
- Interbase/Firebird client
- Possibility to connect to any local or remote Interbase/Firebird server
- Supported InterBase and Firebird server versions: InterBase - up to 2020; Firebird - up to 5.0

1.3 Installation **Data Export for Interbase/Firebird for the first time**

If you are installing **Data Export for Interbase/Firebird** for the first time on your PC:

- download the Data Export for Interbase/Firebird distribution package from the [download page](#) available at our site;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- run *IbExportSetup.exe* from the local directory and follow the instructions of the installation wizard;
- after the installation process is completed, find the Data Export shortcut in the corresponding group of Windows Start menu.

If you want to **upgrade an installed copy of Data Export for Interbase/Firebird** to the latest version:

- download the Data Export for Interbase/Firebird distribution package from the [download page](#) available at our site;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close Data Export application if it is running;
- run *IbExportSetup.exe* from the local directory and follow the instructions of the installation wizard

See also:

[System requirements](#)

1.4 How to buy Data Export

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

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

If you want to review your order information, or you have questions about ordering or payments please visit our [PayPro Global Shopper Support](#), provided by **PayPro Global**.

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

To obtain more information on this product, visit us at <https://sqlmanager.net/en/products/ibfb/dataexport>

Product distribution	PayPro Global
EMS Data Export for Interbase/Firebird (Business license) + 1-Year Maintenance*	Buy Now!
EMS Data Export for Interbase/Firebird (Business license) + 2-Year Maintenance*	
EMS Data Export for Interbase/Firebird (Business license) + 3-Year Maintenance*	
EMS Data Export for Interbase/Firebird (Non-commercial license) + 1-Year Maintenance*	
EMS Data Export for Interbase/Firebird (Non-commercial license) + 2-Year Maintenance*	
EMS Data Export for Interbase/Firebird (Non-commercial license) + 3-Year Maintenance*	Download Now!
EMS Data Export for Interbase/Firebird (Trial version)	

* **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 online, speed-through

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

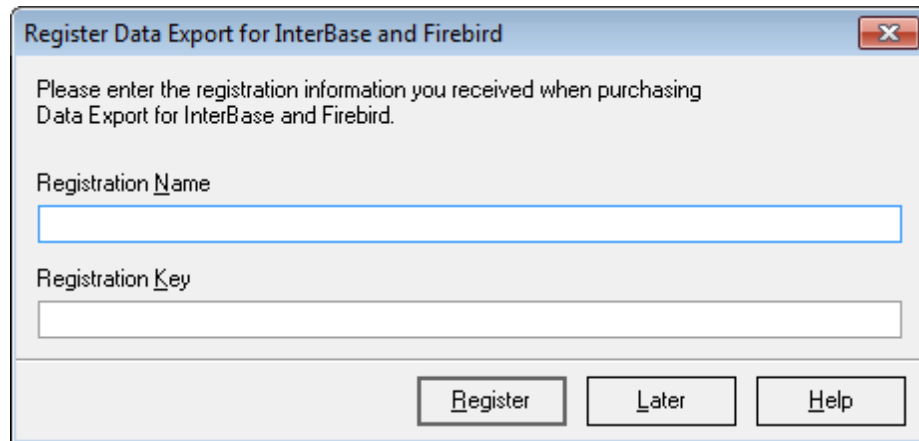
See also:

[How to register Data Import](#) ¹²

1.5 How to register Data Export

To register your newly purchased Data Export for Interbase/Firebird, perform the following:

- receive the notification letter from **PayPro Global** with the registration info;
- enter the **Registration Name** and the **Registration Key** from this letter;
- make sure that the registration process has been completed successfully – check the registration information at the [startup page](#)^[29].



The screenshot shows a Windows-style dialog box titled "Register Data Export for InterBase and Firebird". The dialog has a standard title bar with a close button (X). The main text inside the dialog reads: "Please enter the registration information you received when purchasing Data Export for InterBase and Firebird." Below this text are two input fields. The first is labeled "Registration Name" and the second is labeled "Registration Key". At the bottom of the dialog, there are three buttons: "Register", "Later", and "Help".

See also:

[How to buy Data Export](#)

1.6 Product version history

Data Export for Interbase/Firebird
 Data Export for Interbase/Firebird
 Data Export for Interbase/Firebird
 Data Export for Interbase/Firebird
 Data Export for Interbase/Firebird
 Data Export for Interbase/Firebird
 Data Export 2011 for Interbase/Firebird
 Data Export 2007 for Interbase/Firebird
 Data Export 2007 for Interbase/Firebird

Version

[Version 3.7.4](#)^[13]
[Version 3.7.3](#)^[13]
[Version 3.7.2](#)^[13]
[Version 3.7.1](#)^[13]
[Version 3.7.0.1](#)^[14]
[Version 3.6.0.1](#)^[14]
[Version 3.3.0.1](#)^[15]
[Version 3.2.0.1](#)^[15]
[Version 3.1.0.1](#)^[15]

Release date

July 23, 2021
 July 19, 2019
 August 9, 2017
 April 28, 2016
 June 9, 2014
 January 28, 2013
 February 17, 2010
 February 25, 2009
 May 22, 2008

Version 3.7.4

- Support for PostgreSQL 13 implemented.
- Added support for MySQL 8.
- Resolved error of connecting to SQL Server with TLS 1.2.
- Erroneous table name in SQL output fixed.
- Invalid call of procedures fixed.
- Other minor fixes.

Version 3.7.3

- SQL Server. Added support for Azure databases.
- BOM mark is now optional for SQL format.
- SQL Server. Connection to SQL Server 2017 with TLS is established correctly now.
- Fields order was saved incorrectly into templates. Fixed now.
- Automatic calculation of width for DOC fields has been improved.
- Some parameters for XLS format were not saved in template. Fixed now.
- PDF orientation was not applied correctly in the command line mode. Fixed now.
- Renamed fields were not saved in template for CSV. Fixed now.
- Queries were not loaded correctly in some cases. Fixed now.
- Schema names were not exported into SQL format with "Apply to all exported objects" option enabled. Fixed now.
- Other fixes and improvements.

Version 3.7.2

- BLOB fields can be exported to Base64 strings for text formats now.
- Adding of BOM is optional now.
- The errors in using Before export script have been fixed.
- The message about deleted tables was not added to the log. Fixed now.
- The error of exporting view data has been fixed.
- Dates were incorrectly exported to XLSX in some cases. Fixed now.
- Data was not exported correctly to TXT with "User-defined column width" option on. Fixed now.
- Many other improvements and bugfixes.

Version 3.7.1

- Support of the latest version of OpenSSH added.

- Memory usage has been improved.
- The template was loaded incorrectly with Studio. Fixed now.
- Data from views was incorrectly exported in console version. Fixed now.
- Now timestamp format in exported file name can be adjusted.
- User-defined field formats were not loaded from the template. Fixed now.
- Many other improvements and bug-fixes.

Version 3.7.0.1

- [DOCX](#)^[84]. The possibility to insert images from BLOB-fields to the table is implemented.
- [XML](#)^[77]. Export of binary data from BLOB-field with HEX and Base64 format is implemented.
- Numeric template and date and time [template formats](#)^[88] refer to the standard Windows formats.
- Passive connection mode is implemented when uploading file to FTP-server.
- [XLS](#)^[46]. When adding the hyperlink to another *.xls file, at times the link turned out to be broken. Fixed now.
- [SQL](#)^[75]. When inserting the large number of records, "Out of memory" error occurred. Fixed now.
- [MDB](#)^[59], [ACCDB](#)^[59]. Integer type fields were exported as text. Fixed now.
- [CSV](#)^[73]. The export to UTF-8 coded files did not work. Fixed now.
- [XML](#)^[77]. When exporting data with spaces, ordinary spaces were replaced with nonbreaking spaces. Fixed now.
- Other improvements and bugfixes.

Version 3.6.0.1

- Added the possibility to upload the exported files to FTP server.
- Added the possibility to add date/time to the exported file name.
- Added the possibility to execute [SQL scripts](#)^[92] before and after exporting the object.
- Now the program [template](#)^[95] is created as a single file.
- Now the localization is also available in the console version.
- Now the binary data can be exported as HEX.
- [Export to SQL](#)^[75]. Added the possibility to create a single INSERT statement.
- [Export to Excel \(xls\)](#)^[46]. Now you can set the specified number of rows to split the exported data into the worksheets in Excel.
- Now you can save changes to a template without recalling the save dialog.
- Loading from a template caused SQL queries corruption. Fixed now.
- Failed to set the parameters while exporting a query. Fixed now.
- Other minor improvements and bugfixes.

Version 3.5.0.1

- Added the possibility to [export data](#)^[37] to MS Access 2007 (*.accdb Microsoft Access Database Engine 2010 Redistributable is required).
- Now the Help file is opened in the selected language of the program.
- Added the context menu for [SQL Query Editor](#)^[34]: Copy, Paste, Select All, Save as default query.
- Added the possibility to save and copy the [Export Process log](#)^[94] to the clipboard.
- There was a memory leak when exporting to Excel 2007. Fixed now.
- When launching two or more instances of the export console simultaneously specifying

an individual log file for each instance, the log file was created for the first instance only. Fixed now.

- When exporting more than 2 GB of data to MS Access, a user-friendly error message is generated.
- The [Export Process log](#)^[94] did not support Unicode characters. Fixed now.
- Other improvements and bugfixes.

Version 3.4.0.7

The console version now displays the progress of the export process.

- Fixed the Access Violation error occurred when exporting the fixed number of records.
- The export into SQL format on Windows 7 resulted in the Access Violation error. Fixed now.
- When exporting into an existing table of MS Access, an error occurred. Fixed now.
- When exporting into the PDF format, the right and center alignment worked incorrectly. Fixed now.
- Now when exporting into PDF, lines with a large number of characters are split and placed correctly without overlapping the neighboring cells.
- The interface language chosen for the utility was not saved. Fixed now.
- Now the non-allowed characters in the automatically generated names are replaced by the underscore.
- Some other improvements and bugfixes.

Version 3.3

When exporting from a SQL query, the query text can be added both to *Header* and *Footer*

- Some visual changes are introduced; the sizes of forms/form parts are saved now
- Fixed the bug, connected with writing the rows number to the DBF file header
- It is now possible to define size and decimal for float fields when exporting to the DBF file
- An error occurred on exporting more than 65536 records to Excel 97-2003. Fixed now
- Some other improvements and bugfixes

Version 3.2

When exporting data to SQL Script, BLOB (MEMO, BLOB, CLOB, etc.) data is formatted according to the destination server syntax

- Added the possibility to set page orientation when exporting data to [MS Word 2007](#)^[84]
- When a [template](#)^[95] was used for export, tables weren't displayed at Step 5. Fixed now
- Some other improvements and bugfixes

Version 3.1

- Added the possibility to select file encoding when exporting to [TXT](#)^[72] (ANSI, OEM, MAC, UTF8, UTF16, UTF32)
- Export to [SQL script](#)^[75]: if the source DBMS is selected as the destination server, the syntax of the CREATE TABLE statement completely complies with the source DBMS specifications
- Export to [SQL script](#)^[75]: added the possibility to generate the 'IDENTITY_INSERT' SQL statement for export to MS SQL script

- Now the 'Destination Directory' value is saved to the [template](#)^[95] and is restored when the template is loaded
- The DBF files created by the utility were larger in size than required, as the size of all created char fields was set to 254. Fixed now
- National characters that correspond to the codepage specified in Windows are exported correctly now
- Other minor improvements and bug-fixes

Older version history is available at <http://www.sqlmanager.net/products/ibfb/dataexport/news>

See also:

[What's new](#)^[7]

1.7 EMS Data Export FAQ Please read this frequently if you have questions about Data Export for Interbase/Firebird.

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- [What is EMS Data Export for InterBase/Firebird?](#)^[17]
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- [What is the difference between the Export feature of SQL Manager for InterBase/Firebird and the Data Export for InterBase/Firebird standalone utility?](#)^[17]
- [Are there any limitations implied in the trial version as compared with the full one?](#)^[17]
- [What is the easiest way to configure the template files for the Data Export console application?](#)^[18]
- [I work behind a firewall \(router\). Can EMS Data Export connect to a remote Interbase/Firebird server?](#)^[18]
- [Why cannot I connect to the local InterBase/Firebird Server?](#)^[18] [Why cannot I connect to a remote InterBase/Firebird server?](#)^[18]

Question/answer list

Q: What is EMS Data Export for Interbase/Firebird?

A: EMS Data Export for Interbase/Firebird is a powerful program to export your data quickly from Interbase/Firebird databases to any of 20 available formats, including MS Access, MS Excel, MS Word (RTF), HTML, XML, PDF, TXT, CSV, DBF and others. Data Export for Interbase/Firebird includes a [wizard](#)^[27] which allows you to set export options for each table visually (destination file name, exported fields, data formats, and much more) and a [command-line utility](#)^[105] to export data from tables and queries in one-touch.

Q: What do I need to start working with EMS Data Export for Interbase/Firebird?

A: First of all, you must have a possibility to connect to some local or remote Interbase/Firebird server to work with Data Export. You can download Interbase/Firebird database server from <http://www.codegear.com/interbase> (the latest commercial version of InterBase server) or Firebird client and server from <https://www.firebirdsql.org>. Besides, you need your workstation to satisfy the [system requirements](#)^[8] for Data Export for Interbase/Firebird.

Q: What is the difference between the Export feature of SQL Manager for Interbase/Firebird and the Data Export for Interbase/Firebird standalone utility?

A: First of all, Data Export for Interbase/Firebird works faster as it is a considerably lighter application. Besides, it provides additional features for query building, namely:

- export data from several tables simultaneously;
- export data from [tables](#)^[33] and [queries](#)^[34] selected from different databases;
- the command-line version of the utility to export data using the [configuration](#)^[95] ([template](#)^[95]) file with all export settings.

Q: Are there any limitations implied in the trial version as compared with the full one?

A: Actually the trial version of the utility only allows you to export 20% of records at a time. In spite of this limitation, you can test all the features implemented in Data Export for Interbase/Firebird within the 30-day trial period.

Q: What is the easiest way to configure the template files for the Data Export console application?

A: You can configure the template files for each table visually using the Data Export [Wizard application](#)^[27]. Set the required export options and select the Tools | Save Template menu item on [Step 8](#)^[90] or [Step 9](#)^[94] of the wizard. All the options will be saved to the template file which can be used by the [console application](#)^[105].

Q: I work behind a firewall (router). Can EMS Data Export connect to a remote Interbase/Firebird server?

A: If due to the security policy accepted in your corporate network or by your host provider you cannot connect to your PostgreSQL server directly through TCP/IP (for example a firewall prevents this), you can use SSH or HTTP tunneling feature of SQL Manager to fulfill your task.

Q: Why cannot I connect to the local InterBase/Firebird server?

A: There are several reasons why you cannot connect to the local database. If during connection you get the error "Connection failed. Server is stopped or improper client library is used to establish connection to the server. SQLCode: -904 IB Error Number: 335544375", then you should check if the port or service used for server connection is set correctly and if a local server is running. To check if the service is launched, open Control Panel->Administrative Tools->Services and find service InterBase Guardian (if you use InterBase) or Firebird Guardian (if you use Firebird). In case you find it, run it with the Start button or use Start item in the context menu. If you cannot launch this service, then probably your server is installed incorrectly and you need to reinstall it. Another possible reason for this error is that the client library version does not coincide with the server version. If you get the error like "Your user name and password are not defined. Ask your database administrator to set up a Firebird login. SQL Code: -902 IB Error Number: 335544472" then the reason for this is that the registration data you enter are absent in your server security database. You should register the user with the proper login and password on your server.

Q: Why cannot I connect to a remote InterBase/Firebird server?

A: There could be several possible reasons that prevent you from successful connection to remote database. If the error message says "Connection failed. Server is stopped or improper client library is used to establish connection to the server. SQLCode: -904 IB Error Number: 335544375" then probably you should check the correctness of port and host name you've entered and also if the remote server is run. It often happens that the port through which the connection is set with InterBase/Firebird server (normally, it's 3050) is closed for the security reasons by local firewall, corporate firewall or remote server firewall. Please check this with your system administrator or ISP. In order to avoid this limitation you can use SSH tunnel (50, 55).

If the error message says "Your user name and password are not defined. Ask your database administrator to set up a Firebird login. SQL Code: -902 IB Error Number: 335544472", then the reason is that the user doesn't have permission to access the database. You should register the user with the proper login and password on your server.

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If you still have any questions, contact us at [Support Center](#).

1.8 Quick Other EMS Products


[MySQL](#) ^[20]

[Microsoft SQL Server](#) ^[21]

[PostgreSQL](#) ^[22]

[InterBase / FireBird](#) ^[22]

[Oracle](#) ^[23]

[IBM DB2](#) ^[24]

[Tools & components](#) ^[25]

MySQL



[SQL Management Studio for MySQL](#)

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



[SQL Manager for MySQL](#)

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



[Data Export for MySQL](#)

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



[Data Import for MySQL](#)

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



[Data Pump for MySQL](#)

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



[Data Generator for MySQL](#)

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



[DB Comparer for MySQL](#)

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



[DB Extract for MySQL](#)

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



[SQL Query for MySQL](#)

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



[Data Comparer for MySQL](#)

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

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Microsoft SQL Server[SQL Management Studio for SQL Server](#)

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

[EMS SQL Backup for SQL Server](#)

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

[SQL Administrator for SQL Server](#)

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

[SQL Manager for SQL Server](#)

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

[Data Export for SQL Server](#)

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

[Data Import for SQL Server](#)

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

[Data Pump for SQL Server](#)

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

[Data Generator for SQL Server](#)

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

[DB Comparer for SQL Server](#)

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

[DB Extract for SQL Server](#)

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

[SQL Query for SQL Server](#)

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

[Data Comparer for SQL Server](#)

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

PostgreSQL[SQL Management Studio for PostgreSQL](#)

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

[EMS SQL Backup for PostgreSQL](#)

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

[SQL Manager for PostgreSQL](#)

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

[Data Export for PostgreSQL](#)

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

[Data Import for PostgreSQL](#)

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

[Data Pump for PostgreSQL](#)

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

[Data Generator for PostgreSQL](#)

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[Data Comparer for PostgreSQL](#)

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

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InterBase / Firebird[SQL Management Studio for InterBase/Firebird](#)

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



[SQL Manager for InterBase/Firebird](#)

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



[Data Export for InterBase/Firebird](#)

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



[Data Import for InterBase/Firebird](#)

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



[Data Pump for InterBase/Firebird](#)

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



[Data Generator for InterBase/Firebird](#)

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



[DB Comparer for InterBase/Firebird](#)

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



[DB Extract for InterBase/Firebird](#)

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



[SQL Query for InterBase/Firebird](#)

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



[Data Comparer for InterBase/Firebird](#)

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

[Scroll to top](#) 

Oracle



[SQL Management Studio for Oracle](#)

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



[SQL Manager for Oracle](#)

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



[Data Export for Oracle](#)

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

[Data Import for Oracle](#)

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

[Data Pump for Oracle](#)

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

[Data Generator for Oracle](#)

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

[DB Comparer for Oracle](#)

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

[DB Extract for Oracle](#)

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

[SQL Query for Oracle](#)

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

[Data Comparer for Oracle](#)

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

[Scroll to top](#) ²⁰

IBM DB2[SQL Manager for DB2](#)

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

[Data Export for DB2](#)

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

[Data Import for DB2](#)

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

[Data Pump for DB2](#)

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

[Data Generator for DB2](#)

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

[DB Extract for DB2](#)

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



[SQL Query for DB2](#)

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

[Scroll to top](#)

Tools & components



[Advanced Data Export for RAD Studio VCL](#)

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



[Advanced Data Export .NET](#)

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



[Advanced Data Import for RAD Studio VCL](#)

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



[Advanced PDF Generator for RAD Studio](#)

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



[Advanced Query Builder for RAD Studio VCL](#)

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



[Advanced Excel Report for RAD Studio](#)

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



[Advanced Localizer for RAD Studio VCL](#)

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

[Scroll to top](#)

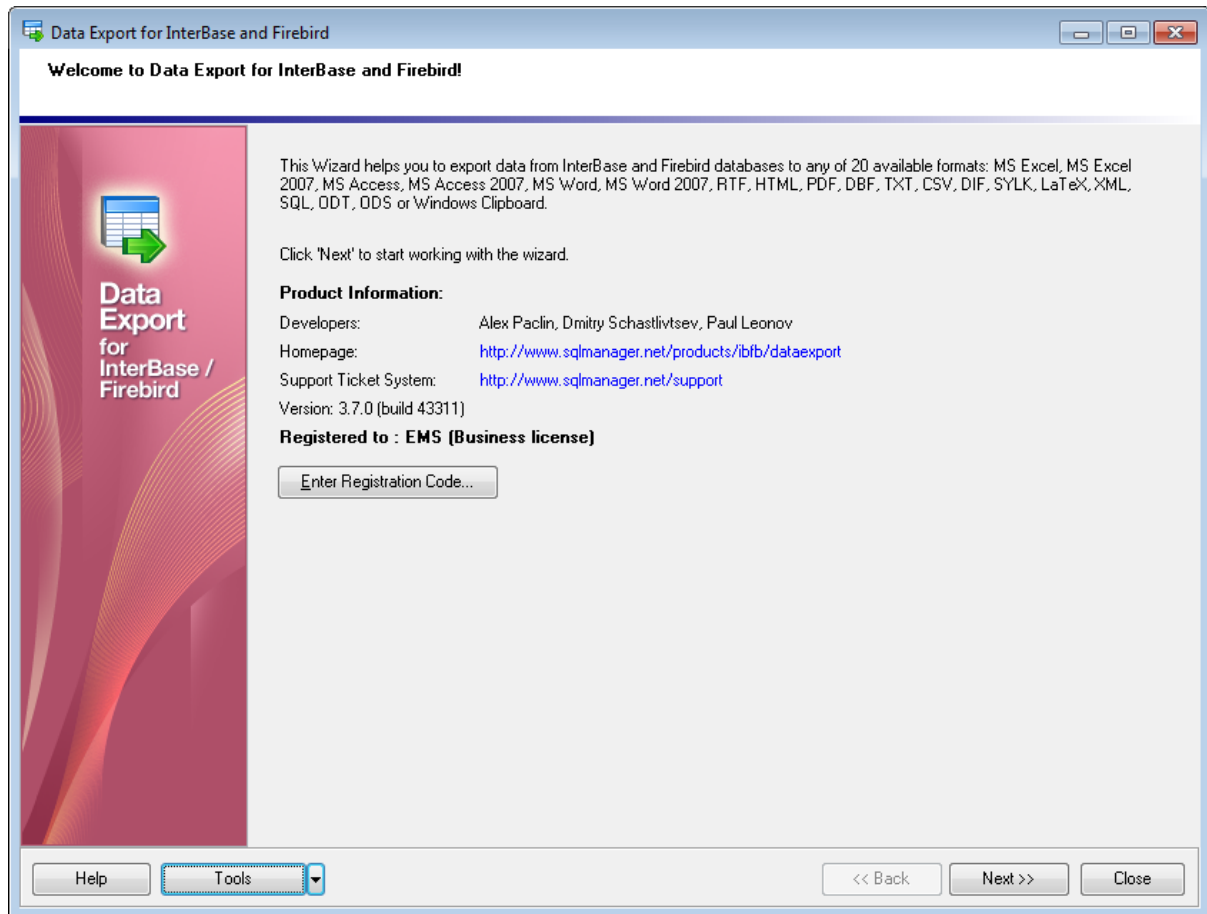
Part



2 Wizard application

Data Export for InterBase/Firebird wizard application provides easy-to-use wizard interface to set all data export parameters visually.

- [Working with wizard application](#)^[28]
- [Using configuration files](#)^[95]
- [Setting program preferences](#)^[97]



See also:

[Console application](#)^[105]

2.1 Working with wizard application

Follow the steps of the Manual to export Interbase/Firebird tables for your needs.

- [Getting started](#)^[29]
- [Step 1 - Setting connection properties](#)^[30]
- [Step 2 - Selecting databases and tables](#)^[33]
- [Step 3 - Specifying queries](#)^[34]
- [Step 4 - Selecting export data format](#)^[37]
- [Step 5 - Selecting fields to export](#)^[38]
- [Step 6 - Setting export options](#)^[40]
- [Step 7 - Setting base data formats](#)^[88]
- [Step 8 - Setting common options](#)^[90]
- [Step 9 - Defining scripts](#)^[92]
- [Step 10 - Start of data export process](#)^[94]

See also:

- [Working with console application](#)^[106]
- [Setting program preferences](#)^[97]

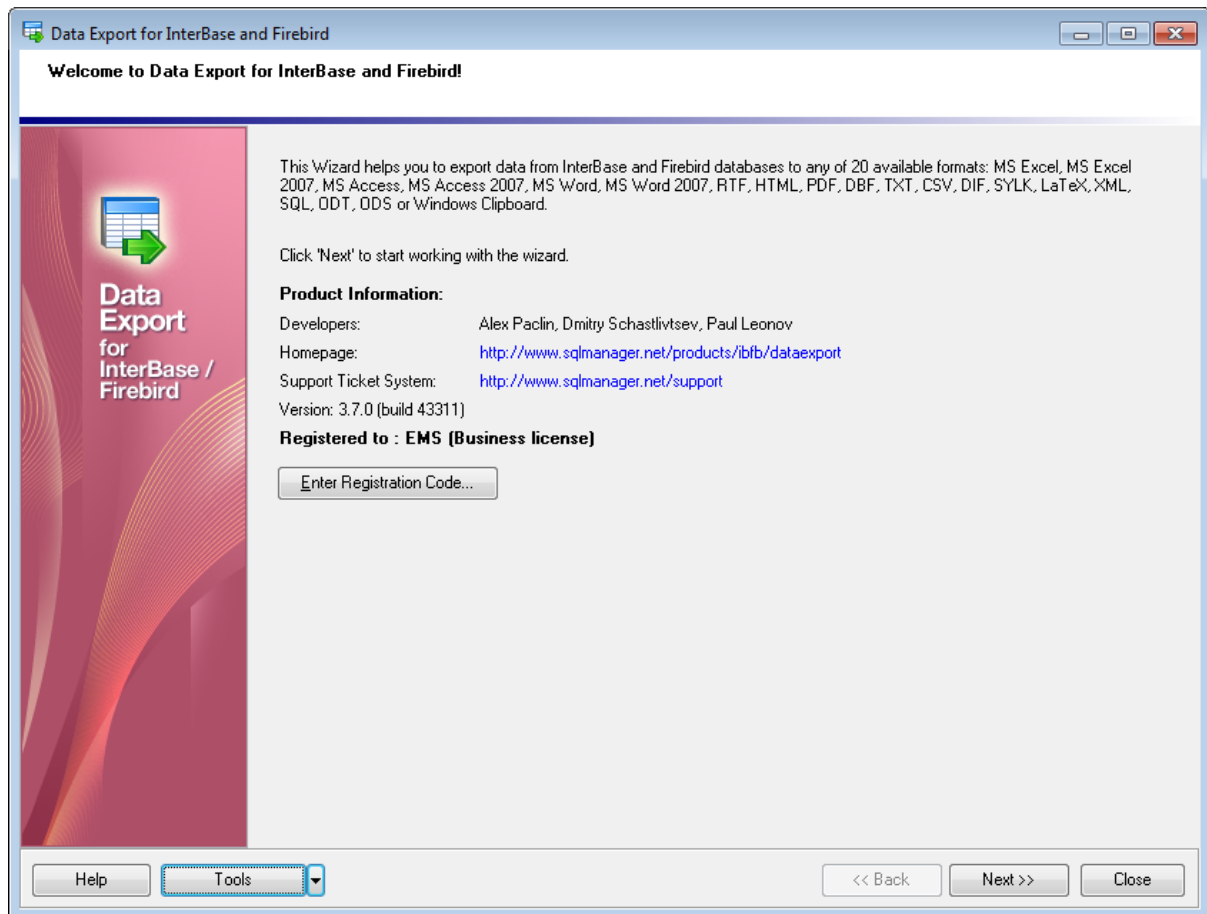
2.1.1 This is how Data Export for Interbase/Firebird wizard application looks when you start it.

This page allows you to view registration information and current program version.

Enter Registration Code...

If you have not registered Data Export for Interbase/Firebird yet, you can do it by pressing the button and entering your [registration](#)^[12] information.

If the registration is correct, message with maintenance period ending date will appear.



Press the **Next** button to proceed to the [next page](#)^[30].

See also:

[How to buy Data Export](#)^[10]

2.1.2 Step 1: Setting connection options

At this step you should specify necessary settings to establish connection to the source Interbase/Firebird database.

Connection settings

For connection you should enter Interbase/Firebird host name in the **Host** field and specify the preferable **Protocol** (*TCP/IP, NetBEUI, Novel SPX, Local, Embedded*). The **Host** drop-down list contains the list of already registered hosts. For both types you should enter Interbase/Firebird port to connect through in the **Port** field.

In case of using Embedded server set the server folder in the **Embedded root** field.

Afterwards you should specify *authorization* settings: **Login** and **Password**. The default superuser name is 'SYSDBA' and the default password is 'masterkey'.

You also need to specify the **Role** (optionally), path to the **Client library** and the path to the **Database file** (**.gdb* for InterBase or **.fdb* for Firebird) in the corresponding fields. For successful connection to the server it is crucial to use the appropriate client library - the one that is compatible with the server you are using: *gds32.dll* for InterBase and *fbclient.dll* for Firebird. Please note that the client library file must be located on your local machine (e.g. in the directory where the utility is installed). Bear in mind that the path to the database file should be set relatively to the Interbase/Firebird server file system.

Select the preferable type of server authentication to be used for the connection from

the **Authentication** drop-down list:

- Normal (traditional IB/FB authentication with security database)
- Win32 NTLM authentication (only FB 2.1 or above)
- Mixed

If you are using the EMS SQL Management Studio for Interbase/Firebird version of Data Export for Interbase/Firebird then the **Select registered database** button is available. Click this button to pick a database already registered in the EMS SQL Management Studio in the [Select Host or Database](#)^[32] dialog.

SSL preferences allows you to connect to the server via encrypted channel for increased security:

Client certificate

Set the full path to the SSL certificate on the client machine.

Passphrase file

Set the full path to the file containing the key passphrase.

Passphrase

Input passphrase password.

CA file

Specify the name of the certificate authority file.

CA path

Set the path for the location of the certificate authority file.

☒ **Connect through the Secure Shell (SSH) tunnel**

Select this option to establish connection to an intermediate SSH server and forward all Interbase/Firebird commands through the secure tunnel.

To setup the connection via **SSH tunnel**, input the following values in the corresponding fields:

SSH host is the name of the host where SSH server is running

SSH port indicates the port where SSH server is activated

SSH login stands for the user on the machine where SSH server is running (Note: it is a Linux/Windows user, not a user of Interbase/Firebird server)

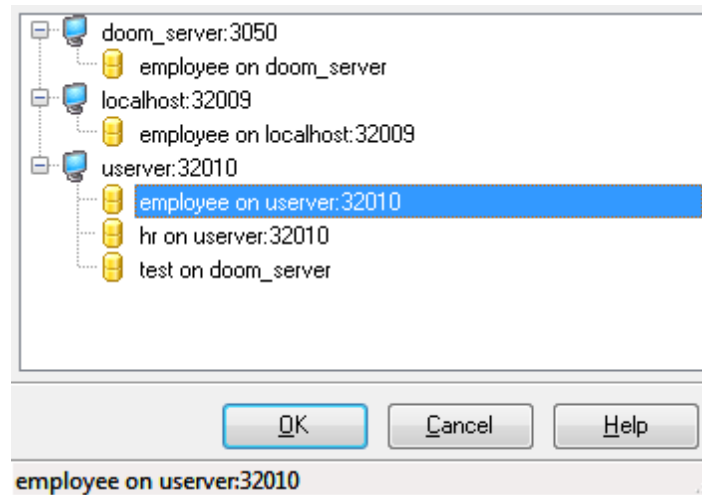
SSH password is the Linux/Windows user password

For details see [SSH tunneling options](#)^[109].

If you get any difficulties connecting to the database, it can be useful to look through [FAQs](#)^[17].

When you are done, press the **Next** button to proceed to the [next step](#)^[33].

2.1.2.1 Selecting registered database Use this dialog to select a database for exporting data. This dialog is available only in EMS SQL Management Studio version of Data Export for Interbase/Firebird.



All databases registered in EMS SQL Management Studio for Interbase/Firebird are displayed in the list.





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

Database registration information will be filled on the [first step](#)^[30] automatically.

2.1.3 Step 2 - Selecting tables

This step of the wizard allows you to select tables of the specified database to be exported.

Path to the current database is displayed in the upper part.

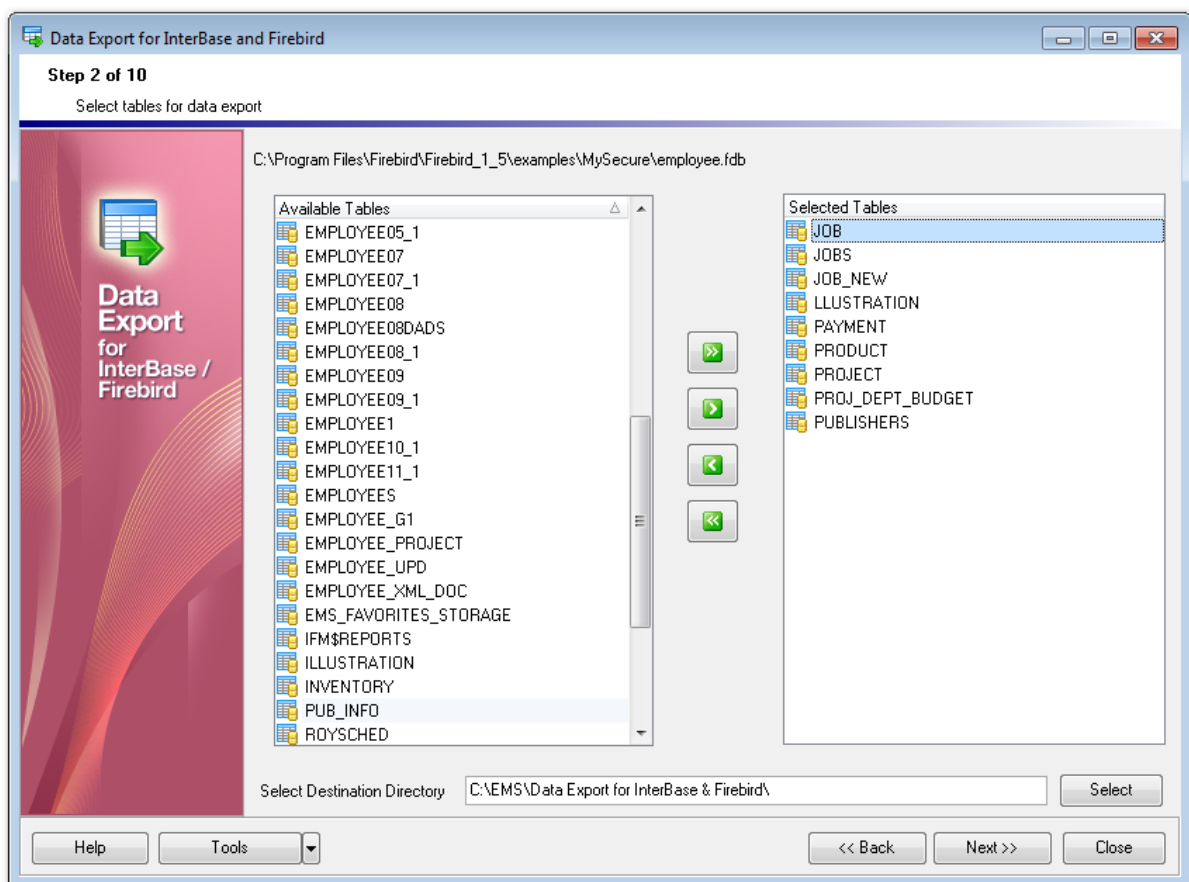
To select a table, you need to move it from the **Available Tables** list to the **Selected Tables** list. Use the     buttons or drag-and-drop operations to move the tables from one list to another.

Destination directory

Set the folder where the exported file(s) will be stored.

Hint: To select multiple tables, hold down the *Shift* or *Ctrl* key while selecting the table names.

Note: You can repeat the steps above with other databases to export data from multiple databases simultaneously.



When you are done, press the **Next** button to proceed to the [next step](#) ³⁴.

2.1.4 Step 3 - Specifying queries

Use this step to define queries to export their results.

Path to the current database is displayed in the upper part.

Add Query

Click the button to add a query. Either you can right-click within the **Queries** list and select the **Add Query** context menu item.

Query Text

You can enter SQL text for each query directly using the editor area or load an existing query from an external *.sql file by pressing the **Load Query** button.

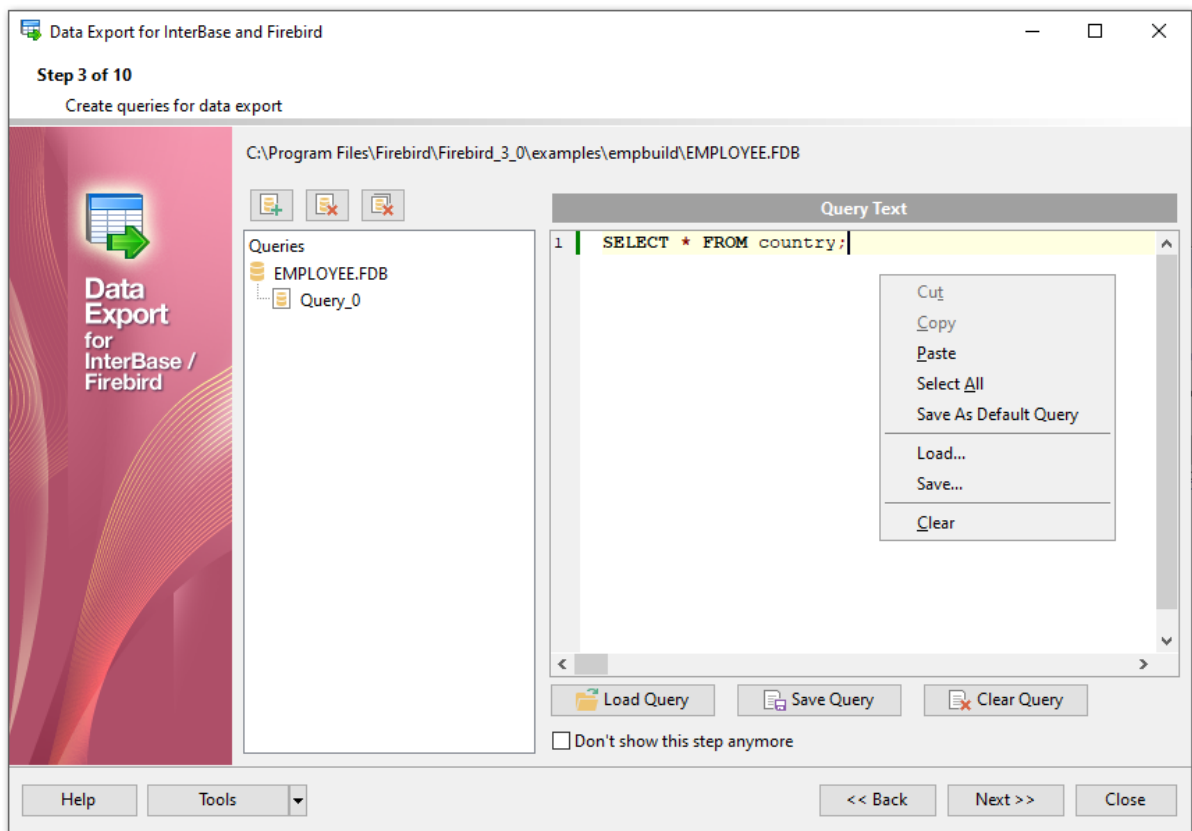
While inputting query text, it is also possible to save your queries by clicking the **Save Query** button or clear the content of the editor by clicking the **Clear Query** button.

To rename a query, right-click it in the **Queries** list and select the **Rename Query** context menu item.

To delete a query, select it in the **Queries** list and press the  **Remove Query** button, or right-click the query and select the **Remove Query** context menu item.

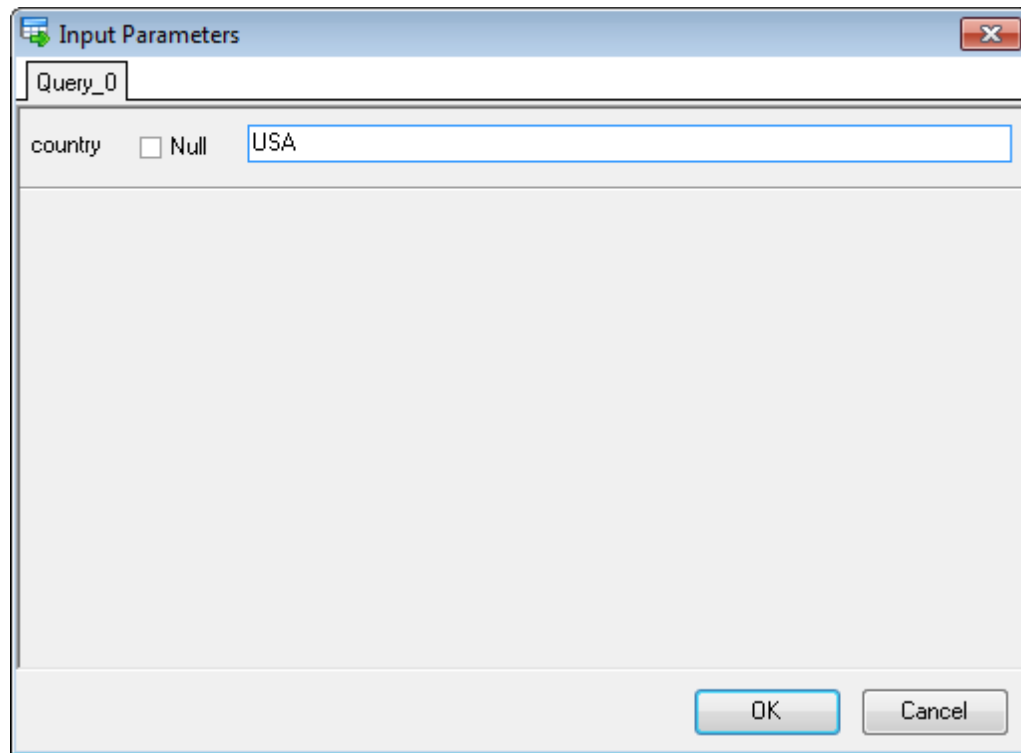
To delete all queries (i.e. empty the **Queries** list), click the  **Clear All** button, or right-click within the **Queries** list and select the **Remove All Queries** context menu item.

Note: If none of the tables was selected at the previous step, the **Next** button will be enabled only when the query is added.



The **context menu** of query editor area contains most of the standard text-processing functions (*Copy*, *Paste*, *Select All*). You can also save your query as a default query by choosing the corresponding context menu item. It will be automatically copied to the [default query editor](#)^[102].

If you add a [query with parameters](#)^[117], the **Input Parameters** dialog will appear on pressing the **Export** button at the [last step](#)^[94]. You need to define parameters type and value at the corresponding fields.



The image shows a dialog box titled "Input Parameters". At the top, there is a text field labeled "Query_0". Below this, there is a section for "country" with a checkbox labeled "Null" and a text field containing "USA". The dialog box has a large empty area in the center and "OK" and "Cancel" buttons at the bottom right.

☒ **Don't show this step anymore**

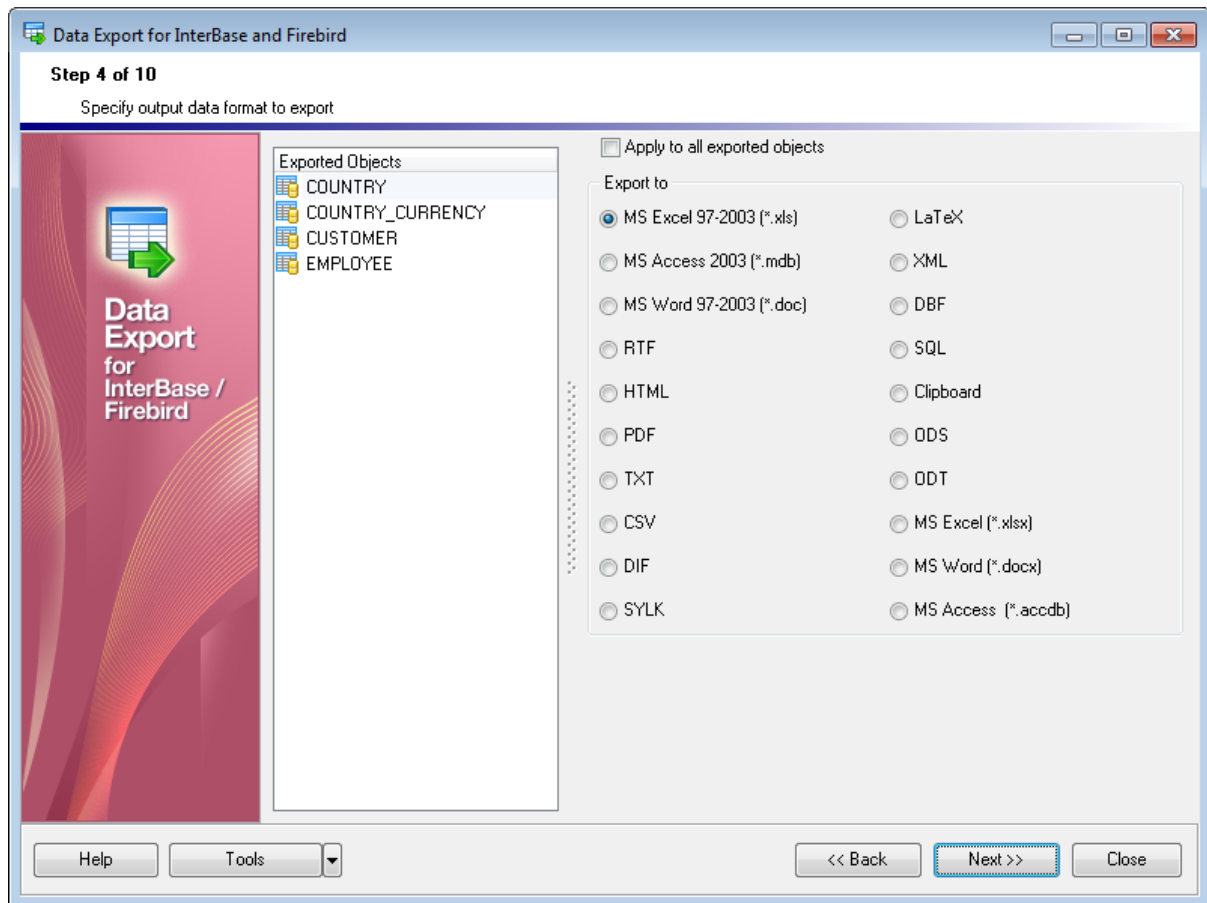
Use the option to disable this step. To enable the step use the appropriate option at the [Selecting skipped steps](#)^[100] tab of the [Preferences](#)^[97] dialog.

When you are done, press the **Next** button to proceed to the [next step](#)^[37].

2.1.5 Step 4 - Selecting export data format

At this step you should select the destination format for exporting data. Select a [table](#)^[33] or [query](#)^[34] in the **Exported Objects** list and set the appropriate option to select one of available output data formats: *MS Excel 97-2003, MS Access 97-2003, MS Word 97-2003, RTF, HTML, PDF, TXT, CSV, DIF, SYLK, LaTeX, XML, DBF, SQL, Clipboard, ODS, ODT, MS Excel, MS Word, MS Access*. For details refer to [Supported file formats](#)^[113].

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified destination format for all exported objects.



When you are done, press the **Next** button to proceed to the [next step](#)^[38].

2.1.6 Step 5 - Selecting fields to export

At this step you can select columns to export and reorder them, if necessary. By default all table fields are exported. Look through the list of exported objects and mark/unmark the columns that should be / should not be exported: check the corresponding box in the **Is Exported** column.

Check all

Click the link to export all columns of the table

Uncheck all

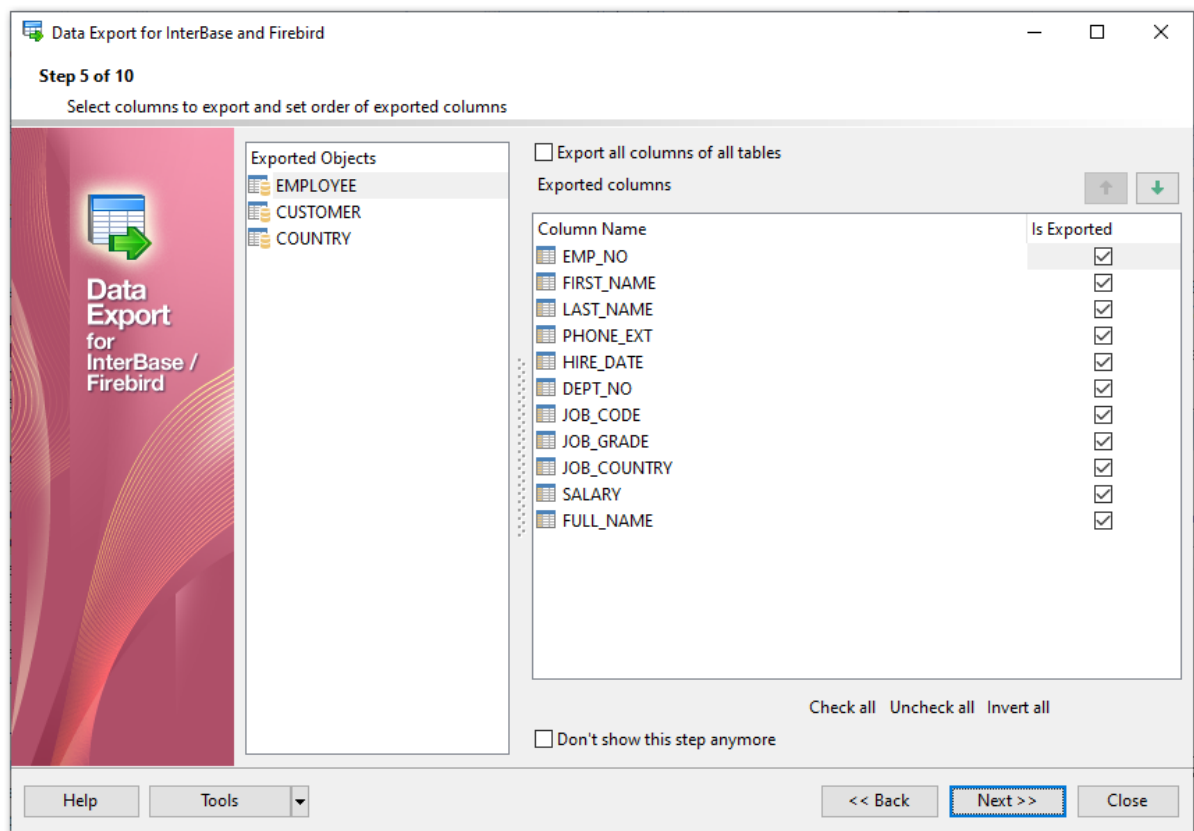
Click the link to exclude all columns of the table from export.

Invert all

Click the link to change each columns **Is Exported** state to opposite.


Use **Move Up** or **Move Down** buttons or context menu items to change the order of exported columns.

Hint: If more convenient, you can check the ☒ **Export all columns of all tables** box to select all fields of all specified tables and queries for export.



☒ Don't show this step anymore

Use the option to disable this step. To enable the step use the appropriate option at the [Selecting skipped steps](#)^[100] tab of the [Preferences](#)^[97] dialog.

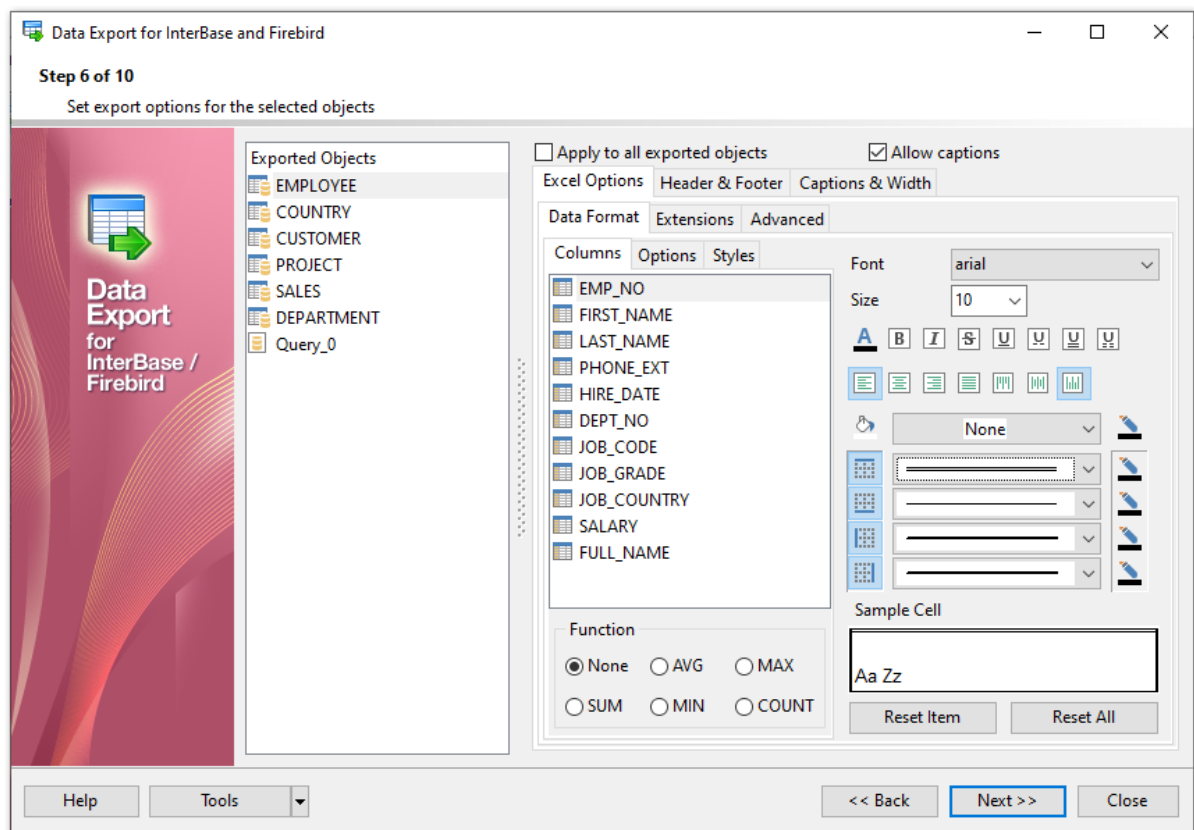
When you are done, press the **Next** button to proceed to the [next step](#).

2.1.7 Step 6 - Setting export options

At this step you should set specific options according to selected output file format at [Step 4](#)^[37].

- [Header & Footer Options](#)^[41]
- [Caption Options](#)^[43]
- [Setting format-specific options](#)^[45]

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified format for all exported objects.



When you are done, press the **Next** button to proceed to the [next step](#)^[88].

2.1.7.1 Header & Footer options

The **Header & Footer** tab allows you to customize the header and footer areas of the result file.

Set **Header text** and **Footer text** for the result file. This text will appear at the beginning and at the end of the result file respectively.

☒ **Allow captions**

If this option is checked (default), the column captions are included into the result file.

The screenshot shows a dialog box with three tabs: 'Excel 2007 Options', 'Header & Footer' (which is selected), and 'Captions'. At the top, there are two checkboxes: 'Apply to all exported objects' (unchecked) and 'Allow captions' (checked). The 'Header text' section has a text area containing 'daily export'. The 'Footer text' section has a text area containing 'by EMS Software Development'.

Add Query Text

When exporting from query you can optionally add query text to the file header or footer. Use the corresponding buttons **Add Query Text** to add the specified query text or **Add Query Template** to add the query used in export.

Note: You can add the following macros: &N for total page count, &P for the current page number.

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified captions for all exported objects.

See also:[Caption, width and align options](#)

[43]

[Setting format-specific options](#)

[45]

2.1.7.2 This tab allows you to customize fields of the result file: specify column *captions*, *width* and/or *align*.

☒ **Allow captions**

If this option is checked (default), the column captions are included into the result file.

Use the grid to set the captions of the result table columns. Default column captions correspond to the database field names.

For some of the export types columns **Width** and/or **Align** are also available. In the **Align** column you can select the text alignment for a certain column (*Left*, *Right* or *Center*). In the **Width** column you can set a numeric value defining the width of the result column.

☐ Apply to all exported objects
☒ Allow captions

Excel 2007 Options | Header & Footer | Captions

Column Name	Caption
address_id	address_id
address	address
address2	address2
district	district
city_id	city_id
postal_code	postal_code
phone	phone
location	location
last_update	last_update

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified captions for all exported objects.

See also:

[Header & Footer options](#)^[41]

[Setting format-specific options](#)

2.1.7.3 **Format-specific options**

This tab allows you to customize

- [Excel 97-2003 Options](#)^[46]
- [Access Options](#)^[59]
- [Word / RTF Options](#)^[61]
- [HTML Options](#)^[65]
- [PDF Options](#)^[70]
- [TXT Options](#)^[72]
- [CSV Options](#)^[73]
- [SQL Options](#)^[75]
- [XML Options](#)^[77]
- [DBF options](#)^[79]
- [Excel / ODS options](#)^[80]
- [ODT options](#)^[84]

To get more information about the file formats, see the [Supported file formats](#)^[113] page.

See also:

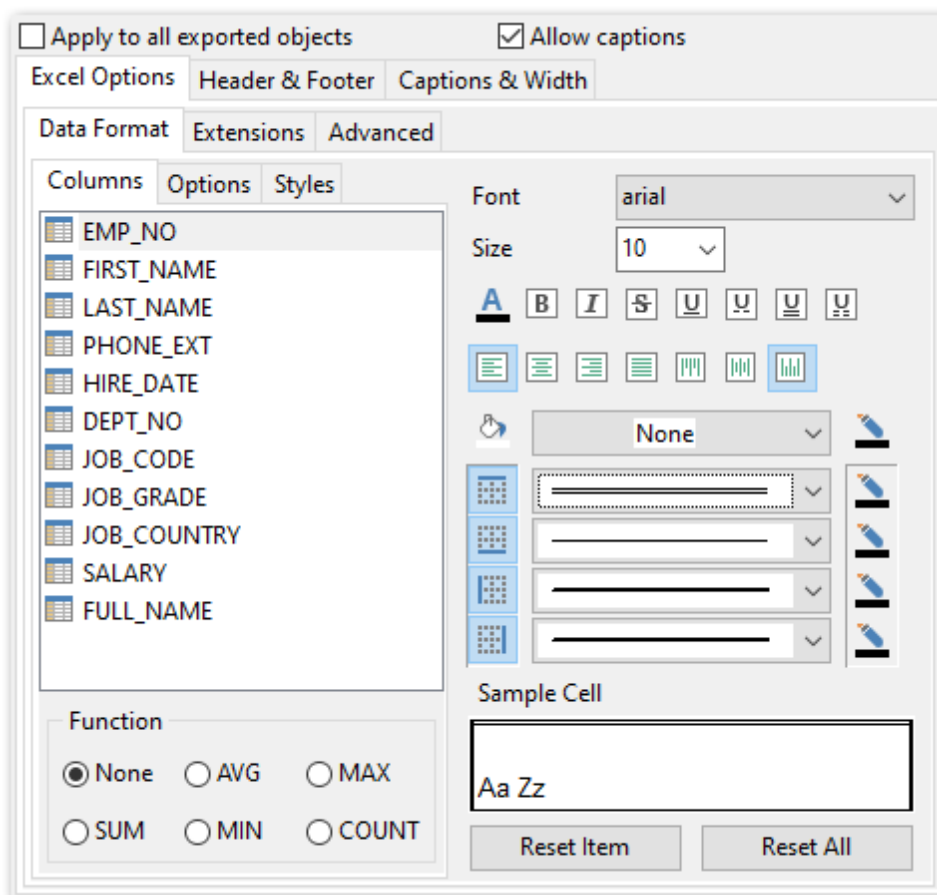
[Header & Footer options](#)^[41]

[Caption, width and align options](#)^[43]

2.1.7.3 This tab allows you to set options for the target **MS Excel 97-2003** (*.xls) file.

You can customize **Data format**, **Extensions** and set **Advanced** options available within the corresponding sub-tabs:

- [Data format](#)^[47]
- [Extensions](#)^[51]
- [Advanced](#)^[57]



Note: For your convenience the previews illustrating the changes are displayed in the **Sample Cell** area.

Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

See also:

[Access options](#)^[59]

[Word 97-2003 / RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#)^[70]

[TXT options](#)^[72]

[CSV options](#)^[73]

[SQL options](#)^[75]

[XML options](#)^[77]

[DBF options](#)^[79]

[Excel / ODS options](#)^[80]

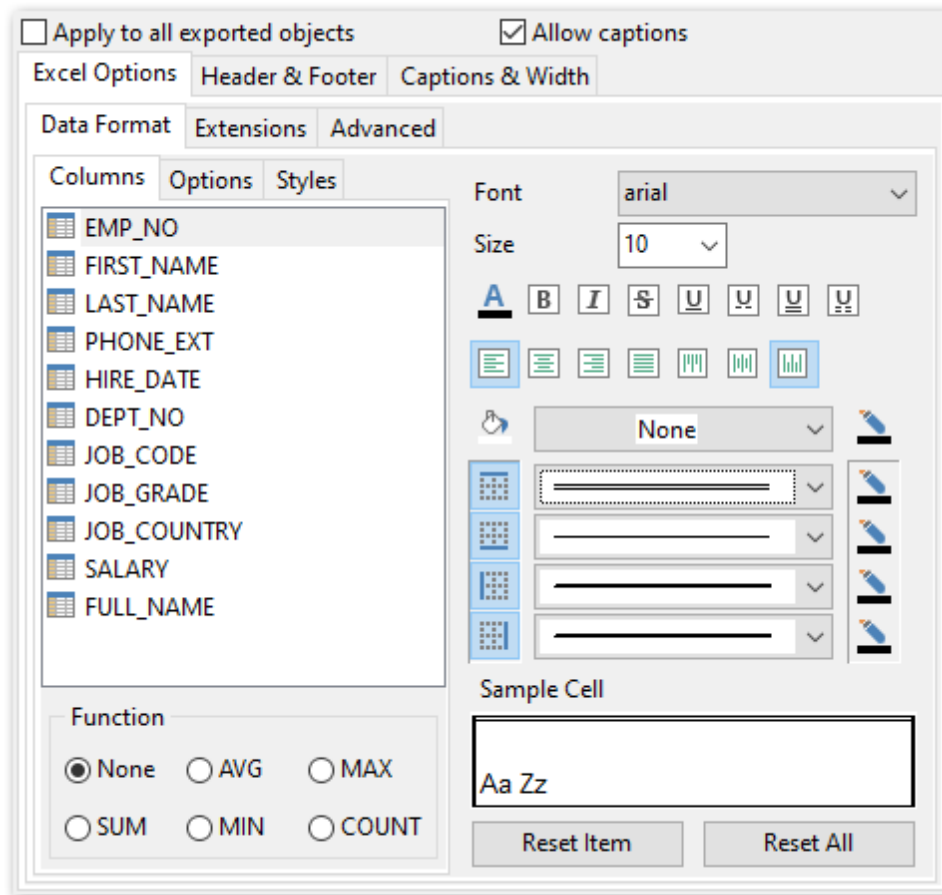
[Word / ODT options](#)^[84]

The **Data Format** tab contains general options which allow you to adjust the format for each kind of Excel cells. This means that you can specify such parameters as *font*, *border*, *fill*, *color* and *method*, etc. for each entity (such as *data field*, *header*, *footer*, *caption*, *data*, *hyperlink* and so on) separately. Also it is possible to create *styles* to make the target Excel file striped by columns or rows.

- [Columns](#)^[47]
- [Options](#)^[49]
- [Styles](#)^[50]

Note: For your convenience the previews illustrating the changes are displayed in the **Sample Cell** area on each sub-tab of the **Data Format** tab.


Using the **Columns** tab you can set *font* options, *border* and *fill* options and select and *aggregate functions* for all **columns** you want to export.




Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.


Use the **Font** and **Size** drop-down lists to select the *font* and *size* to be applied to the output text.


Use the buttons below to set *font color*, make text *bold*, *italicized*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical align*.

Press the  buttons on the left to show/hide the borders they indicate.

Use the drop-down list for each border to select the *line type* and the  button on the right to select the *line color* for each border.

Use the drop-down list to select the preferable fill pattern type.

Press the  button on the left to set the background color for the fill pattern.

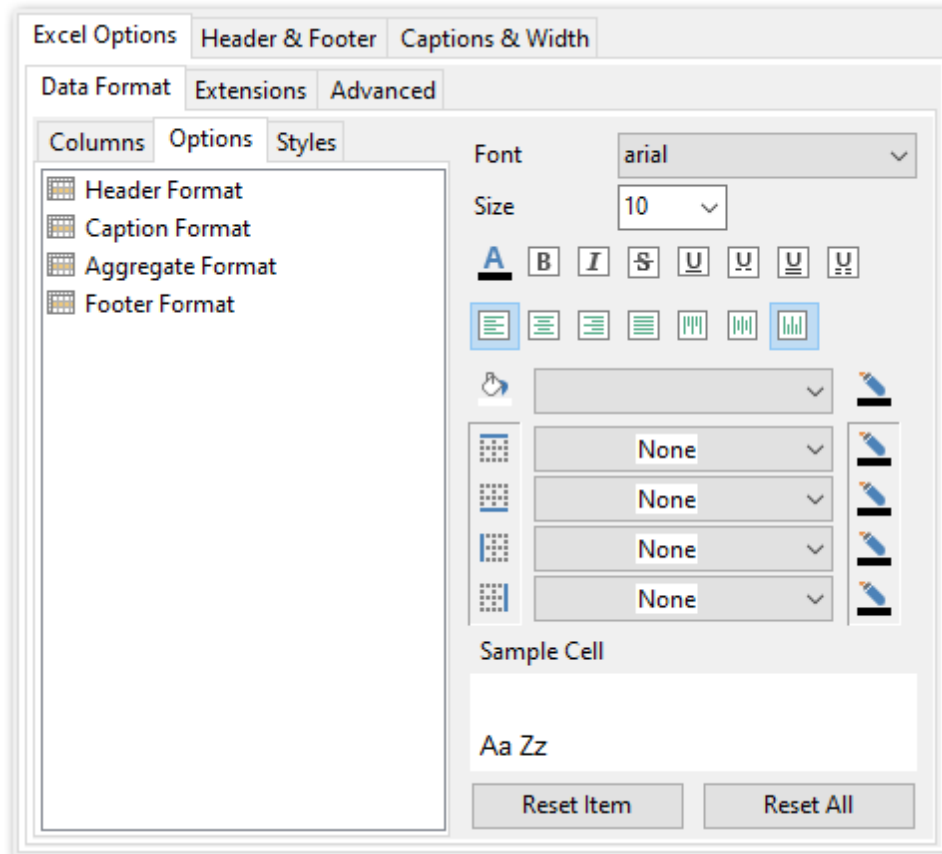
Press the  button on the right to set the foreground color for the fill pattern.

The aggregate functions from the Functions group allows you to count *Average* (AVG), *Maximum* (MAX), *Minimum* (MIN), or *Sum* (SUM) of the field values.

Selected aggregate function will be applied to the field and the result will be added to the additional row in the exported file.

At the **Sample Cell** section you can preview options changes.


Using the **Options** tab you can set *font* options, *border* and *fill* options for all **elements** of the Excel sheet (*header, caption, footer, aggregates*).




Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.


Use the **Font** and **Size** drop-down lists to select the *font* and *size* to be applied to the output text.


Use the buttons below to set *font color*, make text *bold*, *italicized*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical align*.

Press the  buttons on the left to show/hide the borders they indicate.

Use the drop-down list for each border to select the *line type* and the  button on the right to select the *line color* for each border.



Use the drop-down list to select the preferable fill pattern type.



Press the  button on the left to set the background color for the fill pattern.

Press the  button on the right to set the foreground color for the fill pattern.

At the **Sample Cell** section you can preview options changes.

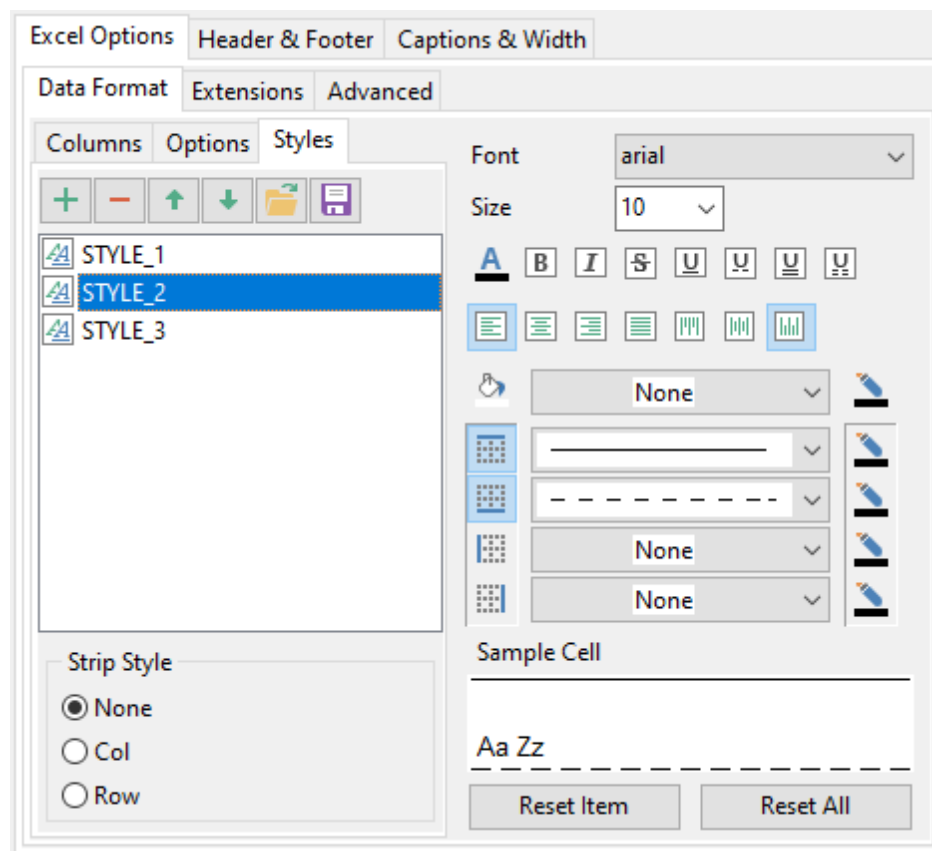
Using the **Styles** tab you can make a style template: set *font* options, *border* and *fill* options and save them.

Use   buttons to add/remove a style.

Use   buttons to reorder the style's list.

You can also save styles and load saved ones.





If you have created or loaded more than one style template, they can be ignored, or used *column-by-column* or *row-by-row* (it depends on the **Strip style** selection).



Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

Use the **Font** and **Size** drop-down lists to select the *font* and *size* to be applied to the output text.


Use the buttons below to set *font color*, make text *bold*, *italicized*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical align*.


Press the     buttons on the left to show/hide the borders they indicate.

Use the drop-down list for each border to select the *line type* and the  button on the

right to select the *line color* for each border.

Use the drop-down list to select the preferable fill pattern type.

Press the  button on the left to set the background color for the fill pattern.

Press the  button on the right to set the foreground color for the fill pattern.

At the **Sample Cell** section you can preview options changes.

The **Extensions** tab provides an ability to add hyperlinks and notes and to any cell of target file, to specify a value of a cell and to create a chart.

2.1.7.3.1.2. Extensions

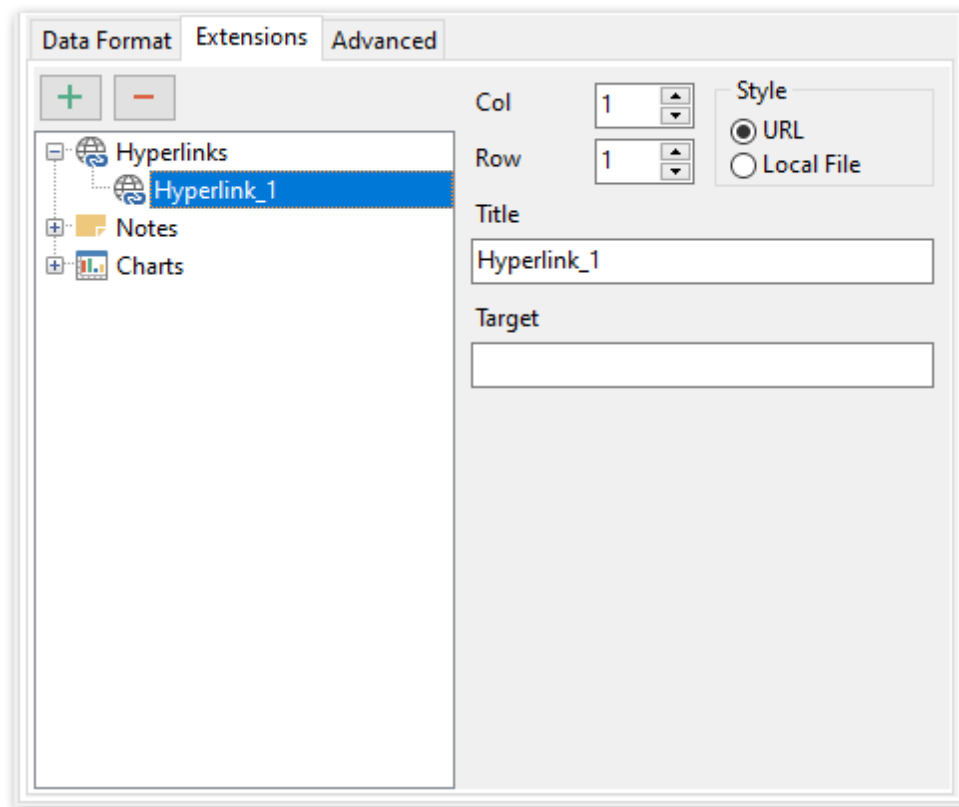
Click the  **Plus** button to add an element.

Click the  **Minus** button to delete an element.

- [Hyperlinks](#)^[51]
- [Notes](#)^[52]
- [Charts](#)^[54]

If you need to create a **hyperlink**:

- set the cell coordinates (*Col* and *Row*);
- specify whether this is a *local* link or *URL*;
- enter the *title* of the hyperlink;
- specify the *target* file location or address.



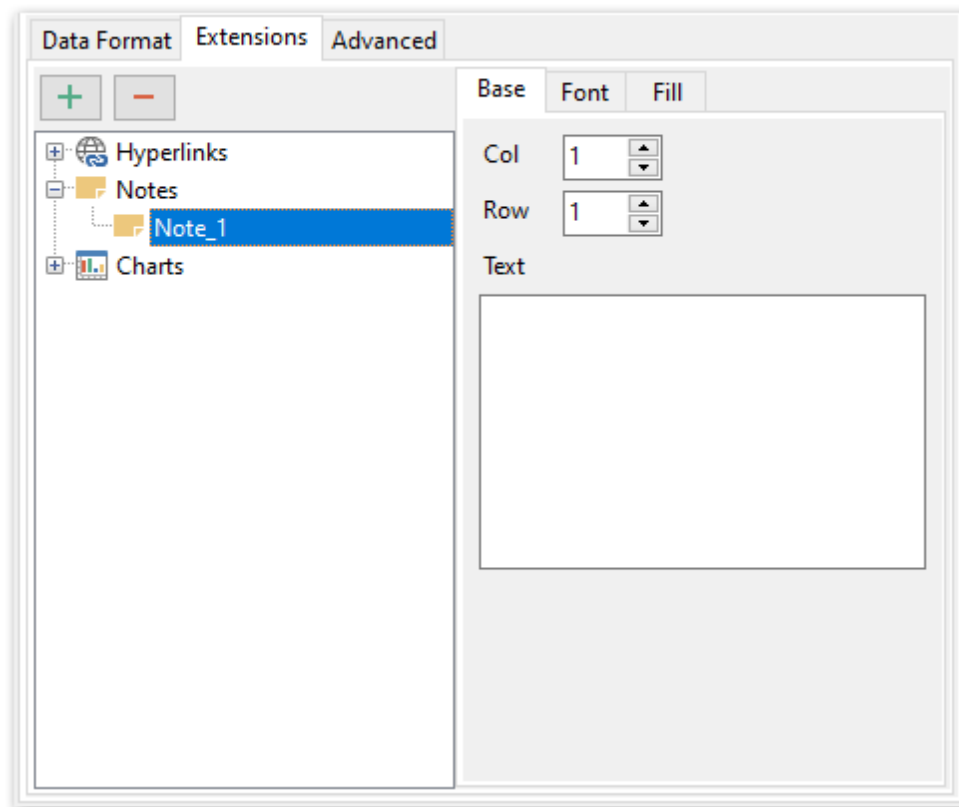
Note: Hyperlink title replaces the specified cell's data.

Notes are used to keep remarks or comments for a cell. Note's data are stored separately from ones of the cell. They are displayed as a triangle in the cell's upper right corner. Note appears as a hint when you point at the cell containing a note with a mouse.

Base

The tab allows you to set basic options for the note.

- set the cell coordinates (*Col* and *Row*);
- enter *text* of a note for the cell;

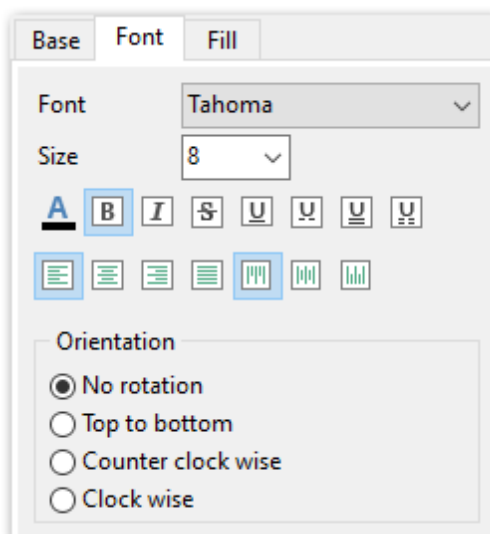


Font

The **Font** tab allows you to specify properties of the font that will be used in the output Excel file notes.

Use the **Font** and **Size** drop-down lists to select the *font* and *size* to be applied to the output text.

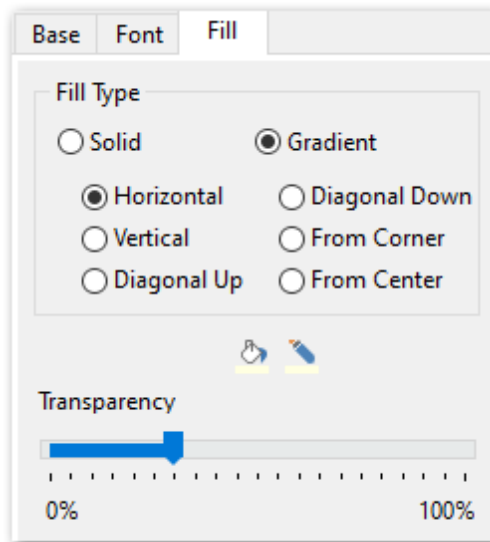
Use the buttons below to set *font color*, make text *bold*, *italicized*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical* align.




You also can select preferable text **Orientation**.


Fill

Use the **Fill** tab to set the note fill type and color.



Select the fill type first: *Solid* or *Gradient*. The direction needs to be specified for gradient fill: *horizontal*, *vertical*, *diagonal (down, down)*, *from corner* or *from center*.

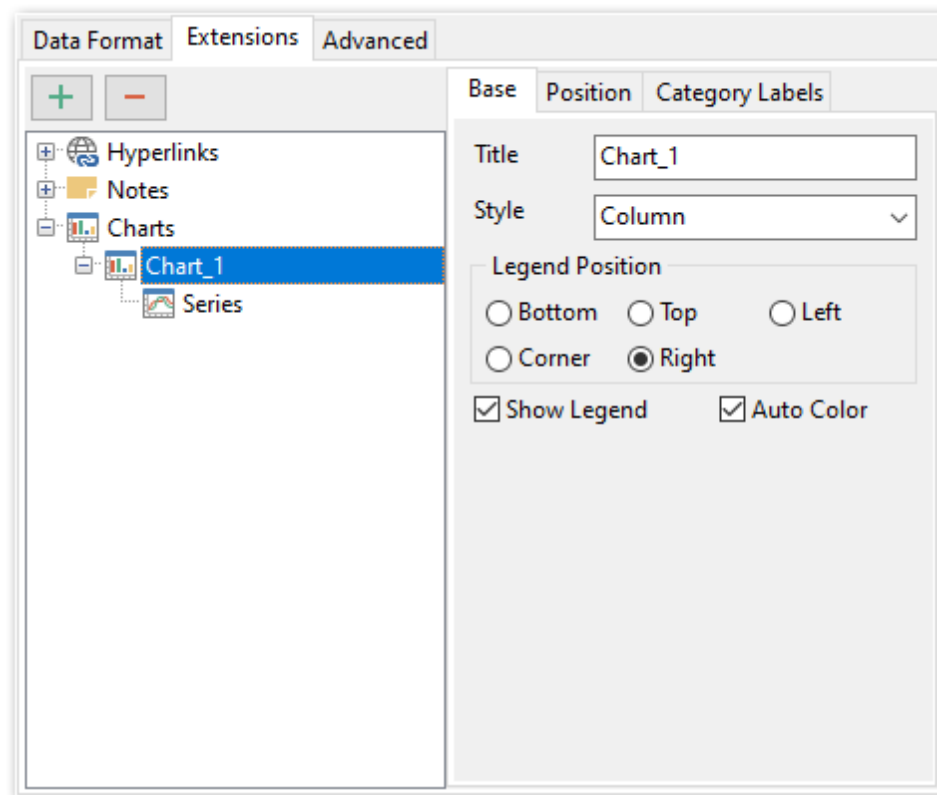
Press the  button on the left to set the background color for the fill pattern.

Press the  button on the right to set the foreground color for the fill pattern.

Use **Transparency** slider to define visibility level of the note.

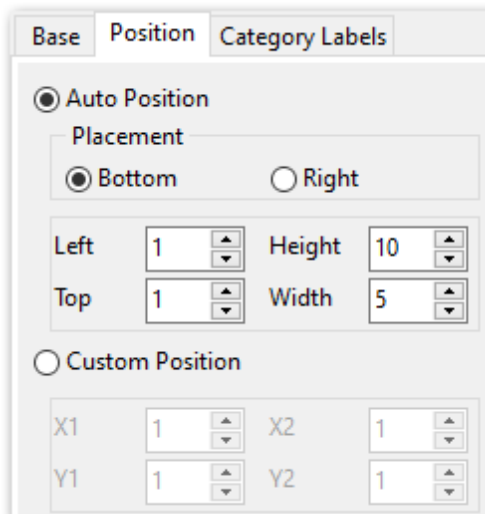
If you need to create a **chart**:

- enter the chart *title*;
- select the chart style (*Column*, *Column 3D*, *Bar*, *Bar 3D*, *Line*, *Line Mark*, *Line 3D*, etc.);
- set the legend position: *Bottom*, *Top*, *Left*, *Corner* or *Right*;
- specify if you want to show the legend;
- specify if you want to set the chart color automatically;
- define the chart *position* and *category labels* using the corresponding tabs.



Position

Position tab allows you to define chart placement and its size.



Auto Position

☒ Bottom

The chart will be placed under the data.

☒ Right

The chart will be placed to the right from the data.

You also need to specify the distance between the chart and the data at the **Left** and the **Top** fields, and chart size at the **Height** and the **Width**.

Custom Position

Specify absolute position by setting chart coordinates: *X1*, *Y1*, *X2*, *Y2*.

Category labels

Use this tab to define **Category labels**.


☒ Column

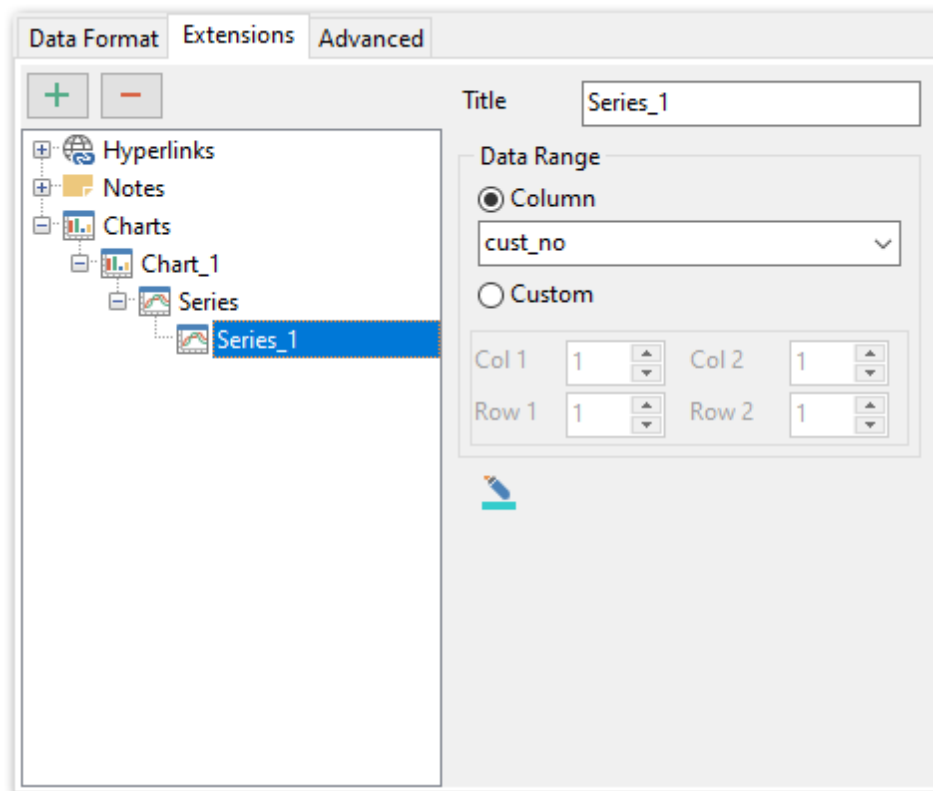
Use column values as chart category labels.

☒ Custom

Define category label values range manually. Use *Col 1* and *Row 1* fields to specify upper left cell, and *Col 2* and *Row 2* fields to define the right bottom one. These cells form a square array of values that will be used as category labels.

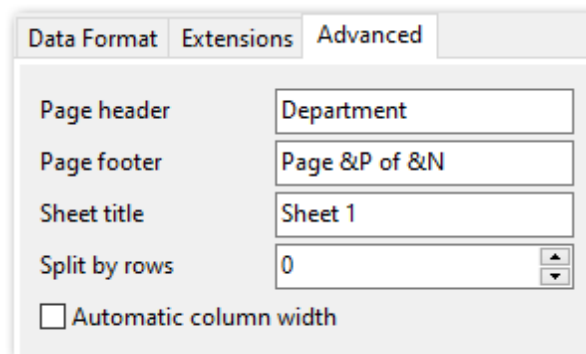
If you need to add series for the chart:

- add one or more series using the  button;
- enter the *titles*;
- set data ranges (select a column from the drop-down list or set the custom range);
- define colors for all the graphs.



The **Advanced** tab allows you to set a number of advanced options to be applied to the result MS Excel file.

2.1.7.3.1.3 Advanced



Page header

If necessary, enter some text for the page header.

Page footer

If necessary, enter some text for the page footer.

Hint: It is also possible to set macros in the **Page header** and **Page footer** fields:
 &N stands for the quantity of pages;
 &P - the number of the current page.

Sheet title

Specify the sheet title for the target file.

Split by rows

Use this field to define the number of rows on each sheet.

**Automatic column width**

Enable this option if you want each column of the target file to be adjusted to the maximum number of characters in it.

2.1.7.3.12 **Access options** This tab allows you to set options for the target **MS Access (*.mdb)** and **MS Access (*.accdb)** file.

Set the name for the target table and specify whether the wizard should create a new table in the MS Access database if it does not exist yet, or use the existing table to export data into.

Password

Specify the database password if you are exporting data to an existing MS Access database which is protected by a password.

Table Name

The name of the table within the target MS Access database.

Create table if it does not exist

Automatically creates the target table if it does not exist in the target database yet.

Export Date/Time fields as nvarchar

Enable the option to convert Date/Time data to nvarchar when exporting.

☒ **Apply to all exported objects**

Enable this option to make settings common for all objects.

See also:

[Excel options](#) ⁴⁶

[Word / RTF options](#) ⁶¹

[HTML options](#) ⁶⁵

[PDF options](#) ⁷⁰

[TXT options](#) ⁷²

[CSV options](#) ⁷³

[SQL options](#) ⁷⁵

[XML options](#) ⁷⁷

[DBF options](#) ⁷⁹

[Excel 2007/ODS options](#) ⁸⁰

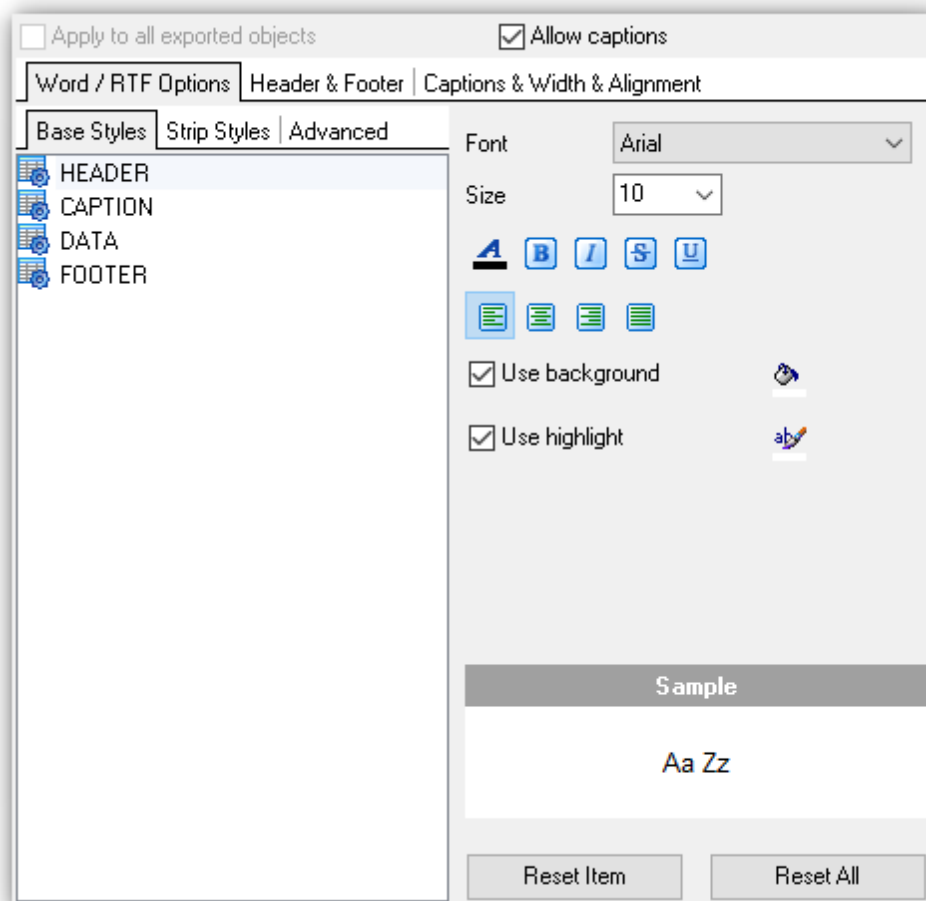
[Word 2007/ODT options](#)  84

2.1.7.3 This tab allows you to set options for the target **MS Word** (*.doc, *.docx) and **Rich Text Format** (*.rtf) files.

You can customize **Base data styles**, **Strip data styles** and set **Advanced** options available within the corresponding sub-tabs:

- [Base Styles](#)^[62]
- [Strip Styles](#)^[63]
- [Advanced](#)^[64]

Note: For your convenience the previews illustrating the changes are displayed in the **Sample** area within the *Base Styles* and the *Strip Styles* tabs.



Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[HTML options](#)^[65]

[PDF options](#) ⁷⁰

[TXT options](#) ⁷²

[CSV options](#) ⁷³

[SQL options](#) ⁷⁵

[XML options](#) ⁷⁷

[DBF options](#) ⁷⁹

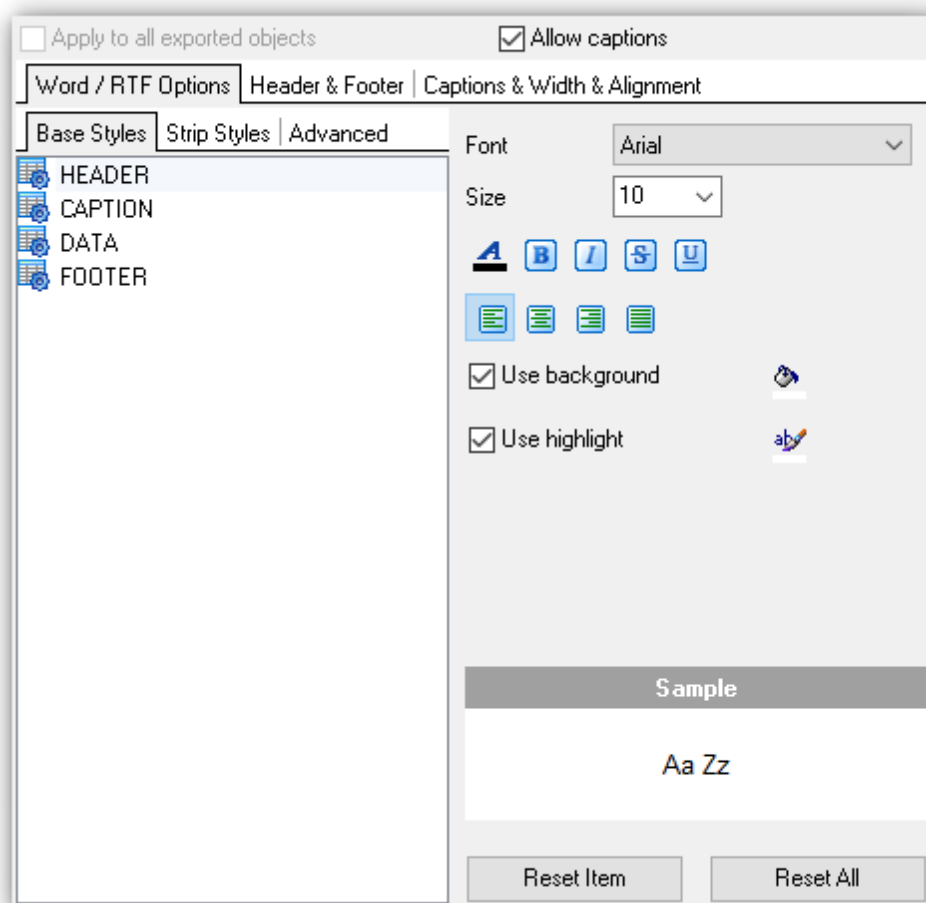
[Excel/ODS options](#) ⁸⁰

[Word/ODT options](#) ⁸⁴

The **Base Styles** tab contains the list of target file entities: *HEADER*, *CAPTION*, *DATA*, *FOOTER*.

2.1.7.3.4 **Base Styles** Use the **Font** and the **Size** drop-down lists to select the *font* and *size* to be applied to the output text.

Use the buttons below to set *font color*, make text *bold*, *italicized*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical* align.



Press the  button on the left to set the background color.

Press the  button on the right to set the highlight color.

☒ **Allow highlight**

Enable this option to use the specified color in the result file as text highlight.

☒ **Allow background**



Enable this option to use the specified color in the result file as background.



Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

At the **Sample** section you can preview options changes.

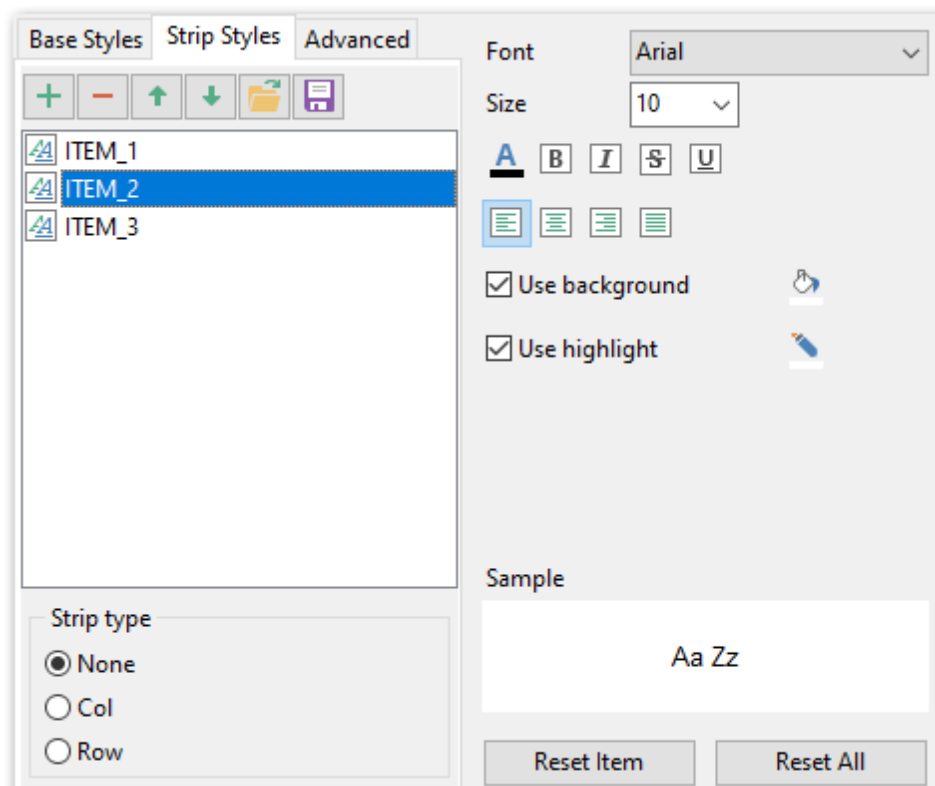
Using the **Strip Styles** tab you can create a style template: set *font, size, background* and *foreground colors, text alignment, highlight* and save them.

If you have created or loaded more than one style template, they can be ignored, or
2.1.7.3 Use Strip data by column or row-by-row (it depends on the **Strip Type** selection).

Use   buttons to add/remove a style.

Use   buttons to reorder the style's list.

You can also save styles and load saved ones.



Press the  button on the left to set the background color.

Press the  button on the right to set the highlight color.

☒ **Allow highlight**

Enable this option to use the specified color in the result file as text highlight.

☒ **Allow background**

Enable this option to use the specified color in the result file as background.

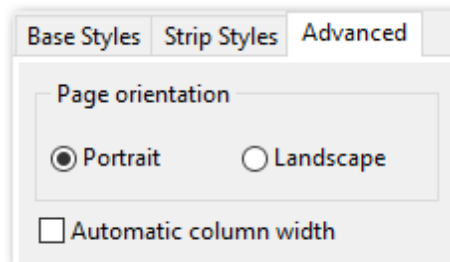
Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

At the **Sample** section you can preview options changes.

The **Advanced** tab allows you to switch **page orientation** for the target Word/RTF file:

- ☒ *Portrait*
- ☒ *Landscape*

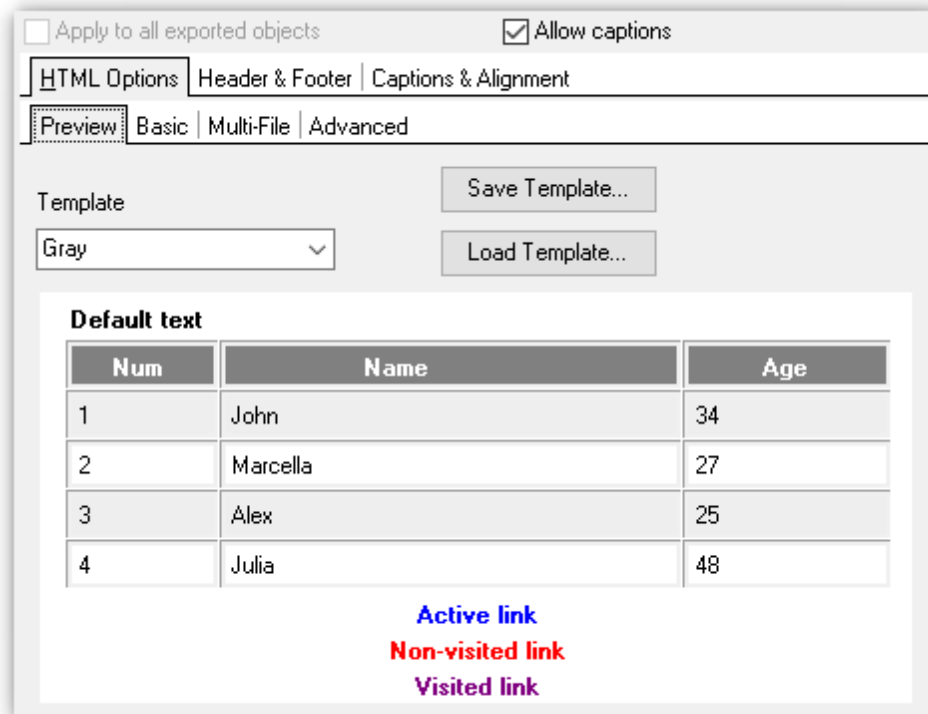
2.1.7.3.3.3 Advanced



☒ **Automatic column width**

Enable this option if you want each column of the target file to be adjusted to the maximum number of characters in it.

2.1.7.3.4 HTML options This tab allows you to set options for the target **HTML** (*.html) file.



You can customize the output HTML file using the following sub-tabs:

- [Preview](#)^[66]
- [Basic](#)^[66]
- [Multi-file](#)^[67]
- [Advanced](#)^[68]

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003/RTF options](#)^[61]

[PDF options](#)^[70]

[TXT options](#)^[72]

[CSV options](#)^[73]

[SQL options](#)^[75]

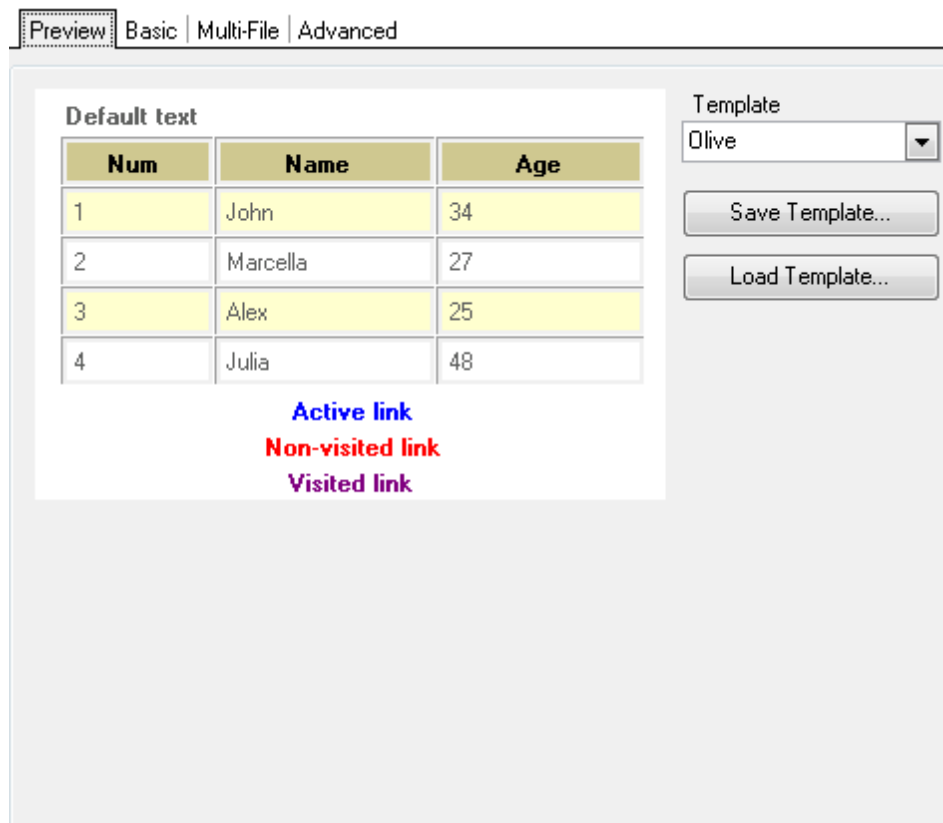
[XML options](#)^[77]

[DBF options](#)^[79]

[Excel/ODS options](#)^[80]

[Word/ODT options](#)^[84]

- 2.1.7.3.4 The **Preview** tab allows you to customize the style that will be applied to the target HTML file using a number of built-in templates provided in the **Templates** combo-box. You can select any of these templates and customize it by clicking objects in the preview panel, and save the settings as a custom template using the **Save as template...** button. Use the **Load template...** button to load a previously saved custom template from your hard disk. Click on an element of the table to select its color.



See also:

[Basic](#)⁶⁶

[Multi-file](#)⁶⁷

[Advanced](#)⁶⁸

The **Basic** tab allows you to specify the basic parameters of target HTML file.


Title

Specify the title of the result file.

Using CSS

Select whether the cascade style sheet (CSS) should be ☒ **Internal** (CSS is stored in the result file) or ☐ **External** (CSS is stored in a separate file).

CSS file name

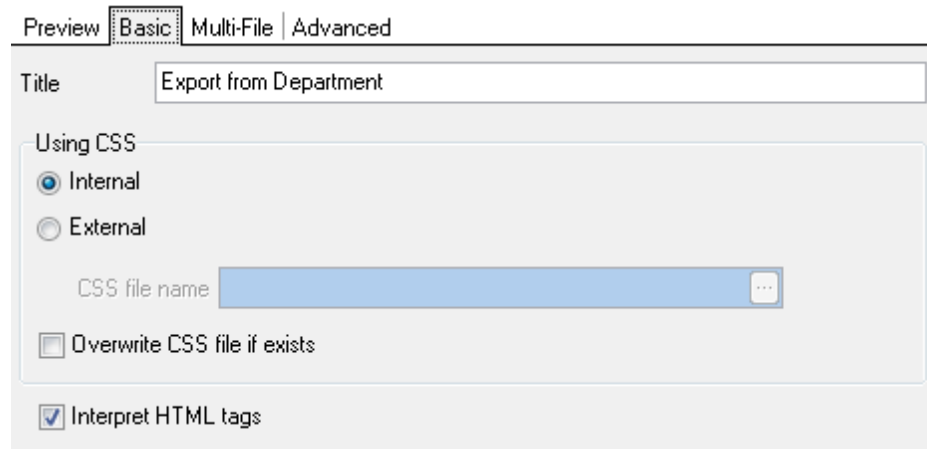
Click the ellipsis  button to define the location of the *.css file.

☒ **Overwrite CSS file if exists**

Use this option to define whether the CSS file must be replaced if it already exists.

☒ **Interpret HTML tags**

Define whether HTML tags should be interpreted as styles.




Preview **Basic** Multi-File Advanced

Title

Using CSS

☒ Internal

☐ External

CSS file name 

☐ Overwrite CSS file if exists

☒ Interpret HTML tags

See also:

[Preview](#)^[66]

[Multi-file](#)^[67]

[Advanced](#)^[68]

The **Multi-file** tab provides you with an ability to split the target HTML file into several separated files.

Multi-file export☒ **Use multi-file export**

Enable this option to split target file into several files.

Set **Maximum record(s) in single file** value.

2.1.7.3.4.3 Multi-file

☒ **Generate index**

Enable this option to create the content page.

Index link template

Specify the template name for the link on the content page next to the page number.

Navigation

Use this section to define navigation link titles.

☒ **On top**

Set this option to add navigation links to the top of the page.

☒ On bottom

Set this option to add navigation links to the bottom of the page.

Preview | Basic | **Multi-File** | Advanced

Multi-file export

☒ Use multi-file export

Maximum

record(s) in single file

☒ Generate Index

Index Link Template

Navigation

☒ On Top ☒ On Bottom

Index Link Title

First Link Title

Prior Link Title

Next Link Title

Last Link Title

See also:

[Preview](#)^[66]

[Basic](#)^[66]

[Advanced](#)^[68]

The **Advanced** tab allows you to set a number of advanced options to be applied to the result HTML file.


Body options**Font name**

Use the drop-down menu to select the font that will be used in the result file by default.

2.1.7.3 Font size

Use the drop-down menu to select the font size that will be used in the result file by default.

Background

If necessary, use the ellipsis  button to browse for a graphical file to be applied as the page background.

Advanced attributes

Define advanced attributes for HTML body.

Preview | Basic | Multi-File | **Advanced**

Body options

Font name: Arial Font size: 12

Background: ...

Advanced attributes:

Table options

Cell padding: 0 Cell spacing: 0 Border: 0

Background: ...

Advanced attributes:

Table options

Cell padding

Set the space size between the outer edges of the table cell and the content of the cell.

Cell spacing

Set the space size between table cells.

Border

Set the border size for tables.

Background

If necessary, use the ellipsis button to browse for a graphical file to be applied as the table background.

Advanced attributes

Define advanced attributes for tables.

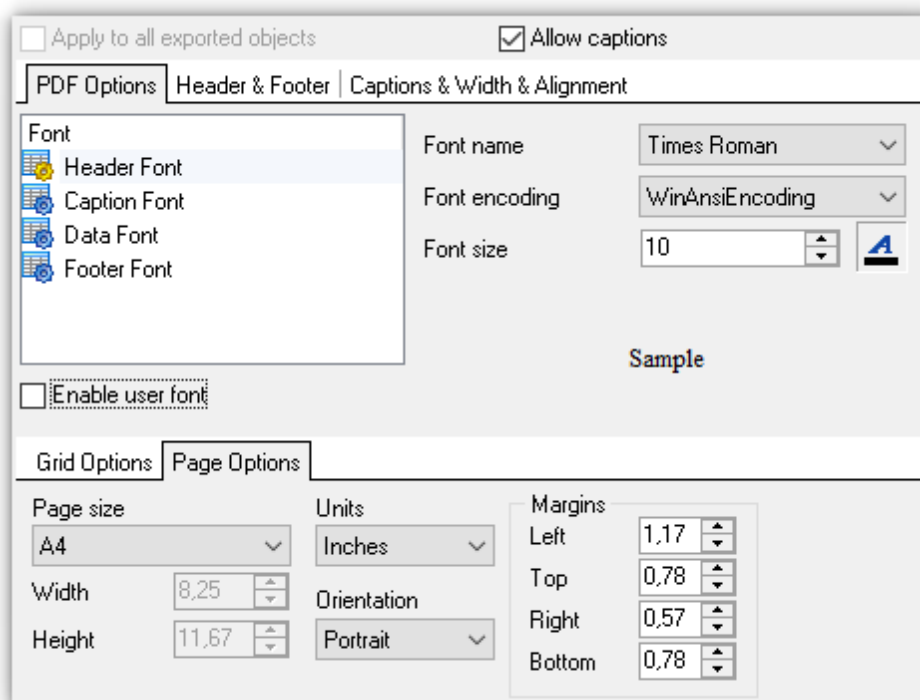
See also:

[Preview](#)^[66]

[Basic](#)^[66]


[Multi-file](#)^[67]

2.1.7.3 PDF Options This tab allows you to set options for the target **PDF** (*.pdf) file.



Fonts section allows you to define the selected item's font.

Specify the needed **Font Name** and **Font Encoding** from the appropriate drop-down lists. You can also define the **Font Size**.

You can change the font color by pressing the  **Font Color** button.

Page Options

Page Size

Define the page size by choosing one of the standard page sizes from the drop-down list, or set the custom size by changing **Width** and **Height**.

By default standard "A4" page size is set.

Units

Use this drop-down list to set the units of measurement for the page size and margins. *Inches*, *millimeters* and *dots* are available.

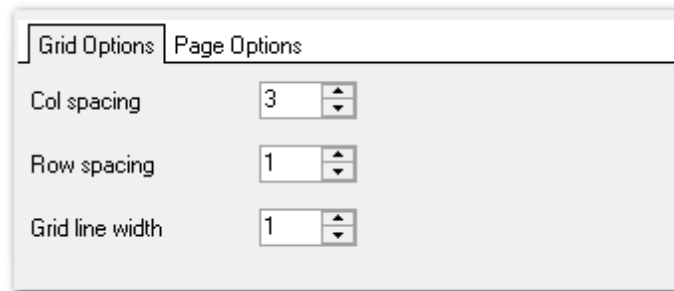
Orientation

Select needed page orientation from this drop-down list.

Margins

Use this section to define page margins for the exported file.

Grid Options



At this tab you can define *Col spacing*, *Row Spacing* and *Grid Line Width*.

Note: For your convenience the previews illustrating the changes are displayed in the **Sample** area.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003/RTF options](#)^[61]

[HTML options](#)^[65]

[TXT options](#)^[72]

[CSV options](#)^[73]

[SQL options](#)^[75]

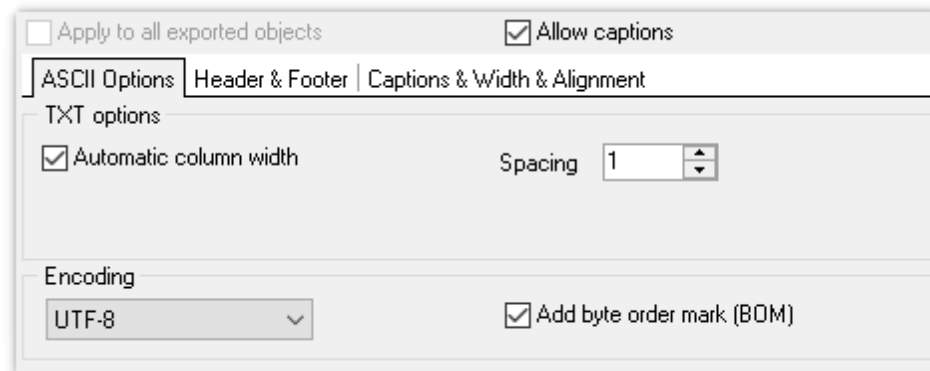
[XML options](#)^[77]

[DBF options](#)^[79]

[Excel/ODS options](#)^[80]

[Word/ODT options](#)^[84]

2.1.7.3 **Text options** This tab allows you to set options for the target **text** (*.txt) file.



☒ **Automatic column width**

Enable this option if you want each column of the target file to be adjusted to the maximum number of characters in it.

Spacing

Specify the number of spaces between columns in the target file.

Encoding

Use the drop-down list to specify the preferable output file encoding. Possible values are: *ANSI, OEM, MAC, UTF-8, UTF-16, UTF-32*.

☒ **Add byte order mark (BOM)**

With this option enabled the byte order mark is added to each TXT file.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003 / RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#)^[70]

[CSV options](#)^[73]

[SQL options](#)^[75]

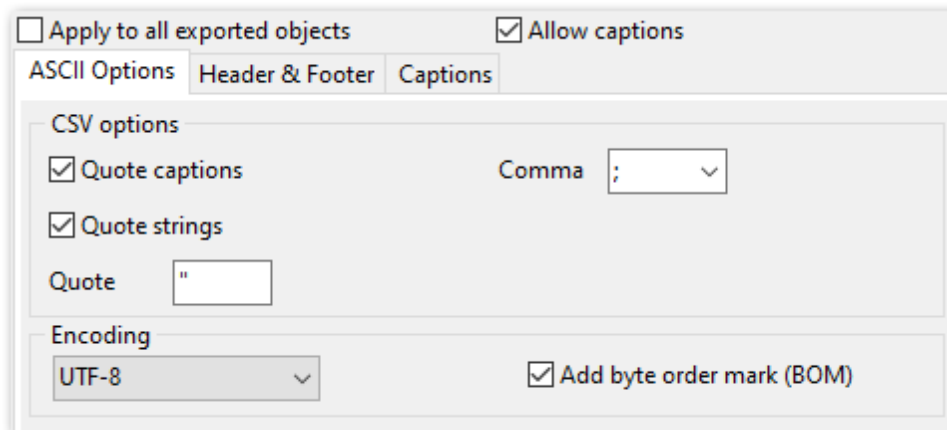
[XML options](#)^[77]

[DBF options](#)^[79]

[Excel/ODS options](#)^[80]

[Word/ODT options](#)^[84]

2.1.7.3 This sub-dialog allows you to set options for the target **CSV** (*.csv) file.



☒ **Quote captions**

Check this option to apply quoting for column captions in the target file.

☒ **Quote strings**

Check this option to apply quoting for string values in the target file.

Specify the column separator using the **Comma** drop-down list and the preferable quote character using the **Quote** edit-box.

Any of the following symbols can be used as a column separator:

- , (comma)
- ; (semicolon)
- ' (apostrophe)
- TAB (Tab symbol)
- SPACE (Space symbol)

Encoding

Use the drop-down list to specify the preferable output file encoding. Possible values are: *ANSI, OEM, MAC, UTF-8, UTF-16, UTF-32*.

☒ **Add byte order mark (BOM)**

With this option enabled the byte order mark is added to each TXT file.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003/RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#)^[70]

[TXT options](#)^[72]

[SQL options](#)^[75]

[XML options](#)^[77]

[DBF options](#)

79

[Excel/ODS options](#)

80

[Word/ODT options](#)

84

2.1.7.3 The **SQL Options** tab allows you to set options for SQL as the output format (as a set of INSERT statements).

Destination server

Select the ☒ **ANSI SQL-92** standard or define the type of DBMS you need to export data for (to achieve maximum compatibility). The result script will be generated in compliance with the specifications of the selected server type:

- ☒ **DB2**
- ☒ **InterBase/Firebird**
- ☒ **Microsoft® SQL Server**
- ☒ **MySQL**
- ☒ **Oracle**
- ☒ **PostgreSQL**

Table options

This group allows you to add the *CREATE TABLE* statement to the result script, define the name for the table being exported and select SQL dialect.

☒ **Add 'IDENTITY_INSERT' statement** (for export to MS SQL)

Allow explicit values to be inserted into the identity column of a table.

Commit options

This group allows you to add the *COMMIT* statement after a defined number of records or at the end of the script. You can also define the commit statement (*COMMIT;* by default)

in the corresponding edit-box.

Other options

☒ **Create multiple insert statement**

Check this option to perform insert operation using multiple insert statements.

Export null values as

Specify the representation of NULL values in the result script.

Statement term

Define the character denoting the end of each SQL statement (semicolon by default).

☒ **Add byte order mark (BOM)**

With this option enabled the byte order mark is added to each TXT file.

See also:

[Excel options](#)^[46]

[Access options](#)^[59]

[Word / RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#)^[70]

[TXT options](#)^[72]

[CSV options](#)^[73]

[XML options](#)^[77]

[DBF options](#)^[79]

[Excel 2007/ODS options](#)^[80]

[Word 2007/ODT options](#)^[84]

2.1.7.3 This tab allows you to set options for the target **XML** (*.xml) file.

Encoding

Specify XML document encoding from the list.

☒ Standalone

Set this option to create a standalone document. Disable the option if any markup declarations, that can affect the content of the document, as passed from XML processor to the application are present or can appear.

☐ Apply to all exported objects

Encoding: utf-8 ☐ Standalone

XML type: Datapacket 2.0 ☐ Export XSD Schema

☐ Convert images to Bitmap

XML type

Select the type of the result XML document: *Datapacket 2.0* or *Access*.

☒ Export XSD schema

For the Access type you can optionally select to export XSD schema, which defines the way the elements and attributes will be represented in an XML document. It also advocates that the given XML document should be of a specific format and specific data type.

☒ Convert images to Bitmap

Check this option to convert images stored in the source table to the *.png file format to ensure compatibility with MS Access database.

Note: Conversion between generic XML documents and documents of the *XML-Datapacket (CDS)* format can be performed with the help of XML Mapper by Borland®.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003 / RTF options](#)^[61]

[HTML options](#)^[65]


[PDF options](#)^[70]


[TXT options](#)^[72]

[CSV options](#)^[73]

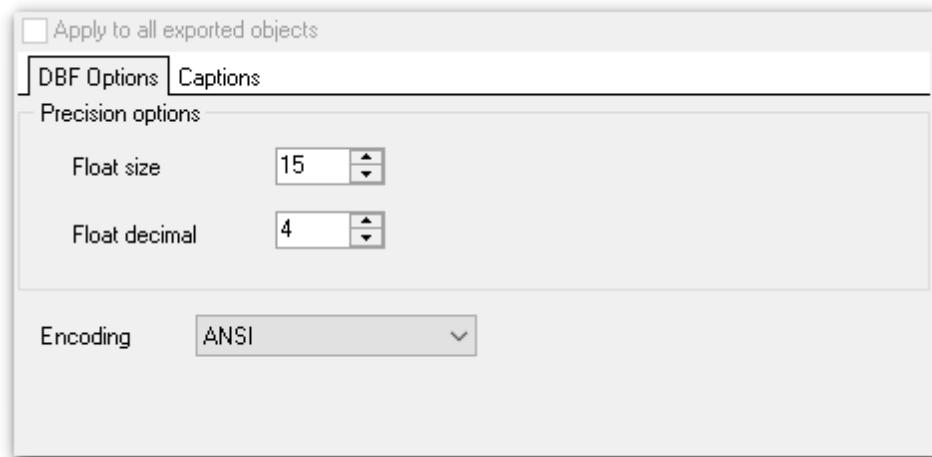
[SQL options](#)^[75]

[DBF options](#)^[79]

[Excel/ODS options](#)

[Word/ODT options](#)

2.1.7.3 This tab allows you to set options for the target **DBF** (*.dbf) file.



The screenshot shows a dialog box titled 'DBF Options'. At the top left, there is a checkbox labeled 'Apply to all exported objects'. Below it, there are two tabs: 'DBF Options' (which is selected) and 'Captions'. Under the 'DBF Options' tab, there is a section titled 'Precision options'. This section contains two fields: 'Float size' with a value of 15, and 'Float decimal' with a value of 4. At the bottom of the dialog, there is an 'Encoding' dropdown menu currently set to 'ANSI'.

At the **DBF Options** tab you can define the precision for float fields. Use the **Float size** and **Float decimal** fields for this purpose.

Encoding

Use the drop-down list to specify the preferable output file encoding. Possible values are: *ANSI, OEM, MAC, UTF-8, UTF-16, UTF-32*.

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to apply changes made at this tab for all exported objects.

See also:

[Excel 97-2003 options](#)^[46]

[Access options](#)^[59]

[Word 97-2003 / RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#)^[70]

[TXT options](#)^[72]

[CSV options](#)^[73]

[SQL options](#)^[75]

[XML options](#)^[77]

[Excel/ODS options](#)^[80]

[Word/ODT options](#)^[84]

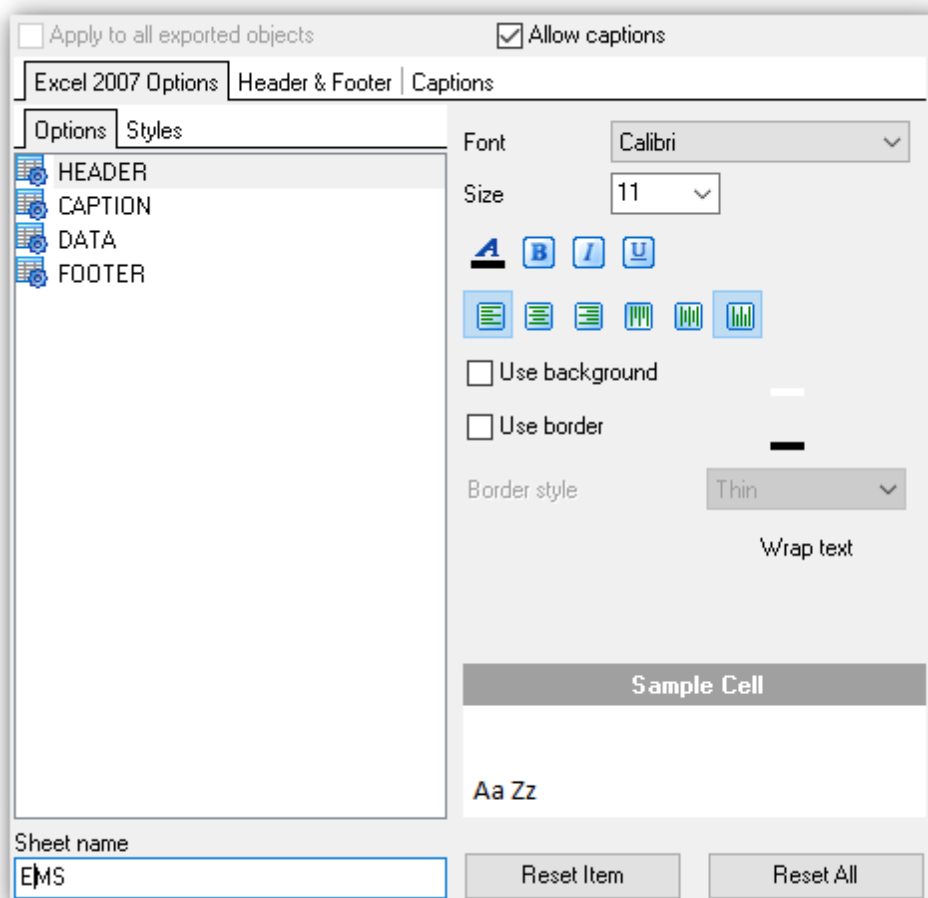
2.1.7.3 The **Excel (ODS) options** tab allows you to set options for the target **MS Excel (ODF Spreadsheets)** (*.xlsx, *.ods) file.

Sheet name

Input custom name for the sheet in the result file.

You can customize **options** and **strip styles** using the corresponding sub-tabs:

- [Options](#)^[81]
- [Styles](#)^[82]



Note: For your convenience the previews illustrating the changes are displayed in the **Sample Text** area.

Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

See also:

- [Excel options](#)^[46]
- [Access options](#)^[59]
- [Word / RTF options](#)^[61]

[HTML options](#) ⁶⁵

[PDF options](#) ⁷⁰

[TXT options](#) ⁷²

[CSV options](#) ⁷³

[SQL options](#) ⁷⁵

[XML options](#) ⁷⁷

[DBF options](#) ⁷⁹

[Word 2007/ODT options](#) ⁸⁴

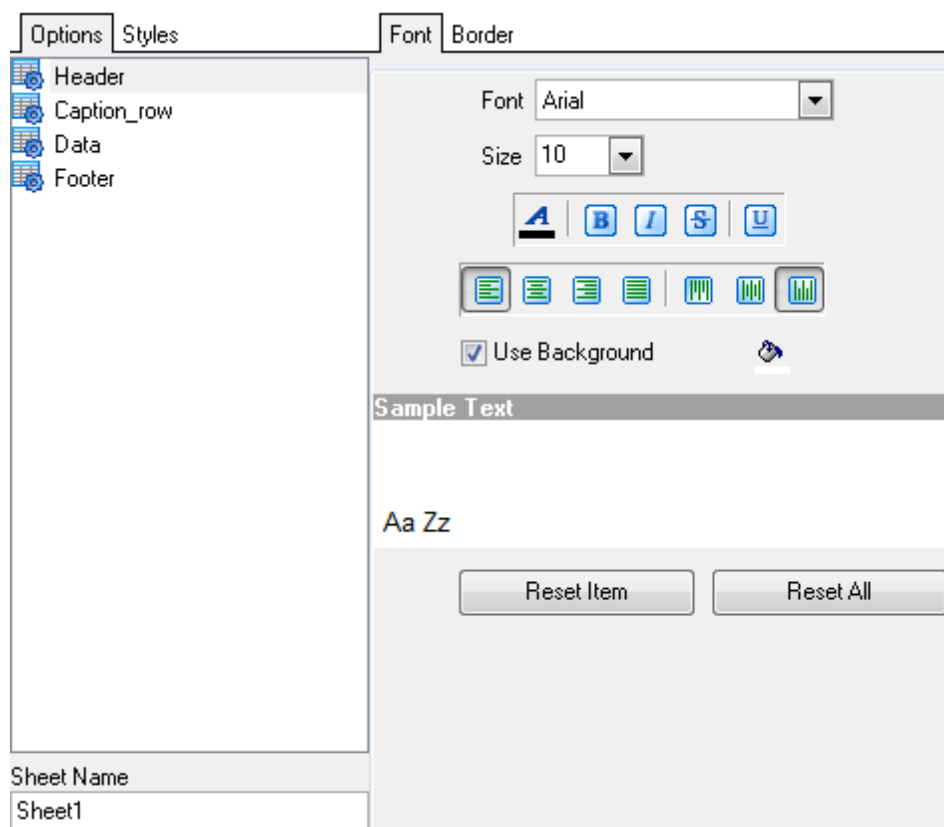
Using the **Options** tab you can set *font* and *border* options for all **elements** of the Excel / ODF sheet (*HEADER, CAPTION, DATA, FOOTER*).

2.1.7.3 Sheet Name

If necessary, you can specify the sheet name for the target Excel / ODF Spreadsheet file.

Use the **Font** and the **Size** drop-down lists to select the *font* and *size* to be applied to the output text.

Use the buttons below to set *font color*, make text *bold*, *italic*, *strikethrough* text, set *underline* effects, specify text *horizontal* and *vertical align*.



☒ Use background

Enable this option to be able to change result file background color.

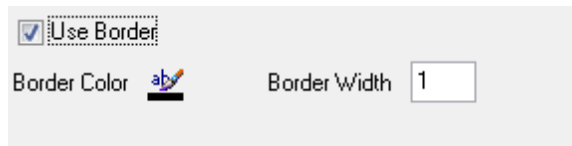
Press the  button on the left to set the background color.

You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.



Note: For your convenience the previews illustrating the changes are displayed in the **Sample Text** area.



Enable the ☒ **Use Border** option at the **Border** tab if it is needed.

Then define its **color**  and **style**.



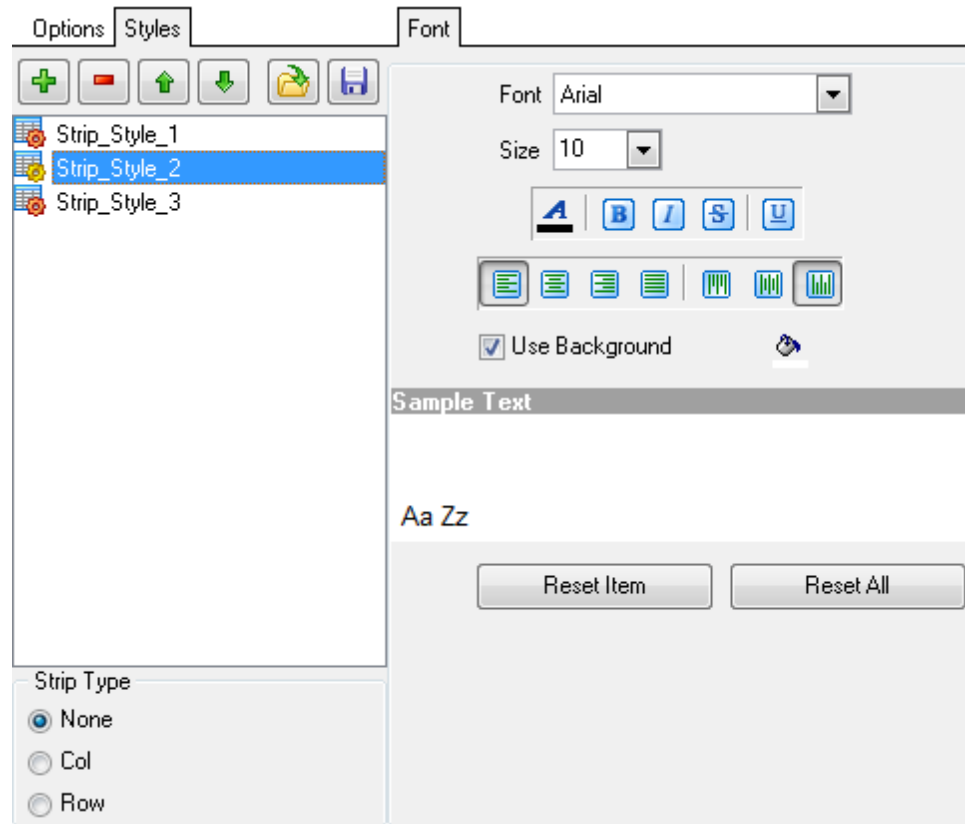
Using the **Styles** tab you can create and save a style template: set *font, size, background color, text alignment, wrap text* options.

Use   buttons to add/remove a style.

2.1.7.3. Use   buttons to reorder the style's list.

You can also save styles and load saved ones.

If you have created or loaded more than one style template, they can be ignored, or used *column-by-column* or *row-by-row* (it depends on the **Strip Type** selection).



☒ **Use background**

Enable this option to be able to change result file background color.

Press the  button on the left to set the background color.

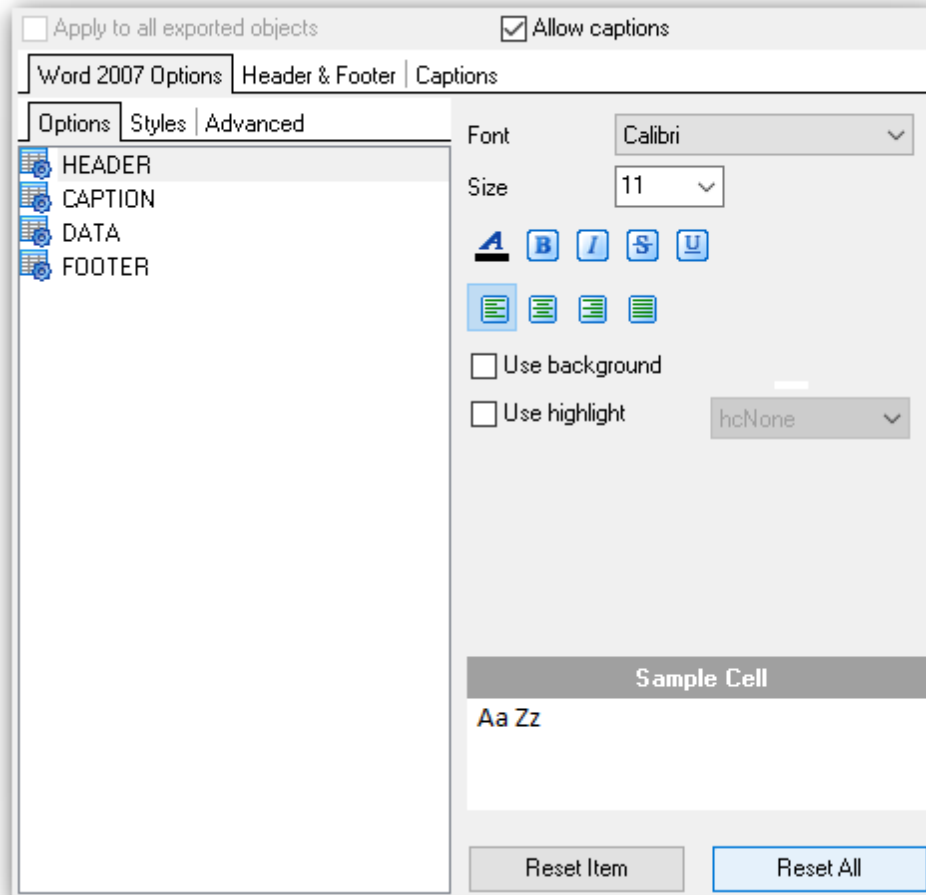
You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

Note: For your convenience the previews illustrating the changes are displayed in the **Sample Text** area.

2.1.7.3 The **Word (ODF) Options** tab allows you to set options for the target **MS Word (ODF text)** (*.docx, *.odt) file.

You can customize **options**, **strip styles** and **border** using the corresponding sub-tabs:

- [Options](#)^[85]
- [Styles](#)^[85]
- [Advanced](#)^[86]



Note: For your convenience the previews illustrating the changes are displayed in the **Sample Cell** area.

Hint: You can reset the changes any time using the **Reset Item** and the **Reset All** buttons.

See also:

[Excel options](#)^[46]

[Access options](#)^[59]

[Word / RTF options](#)^[61]

[HTML options](#)^[65]

[PDF options](#) ⁷⁰

[TXT options](#) ⁷²

[CSV options](#) ⁷³

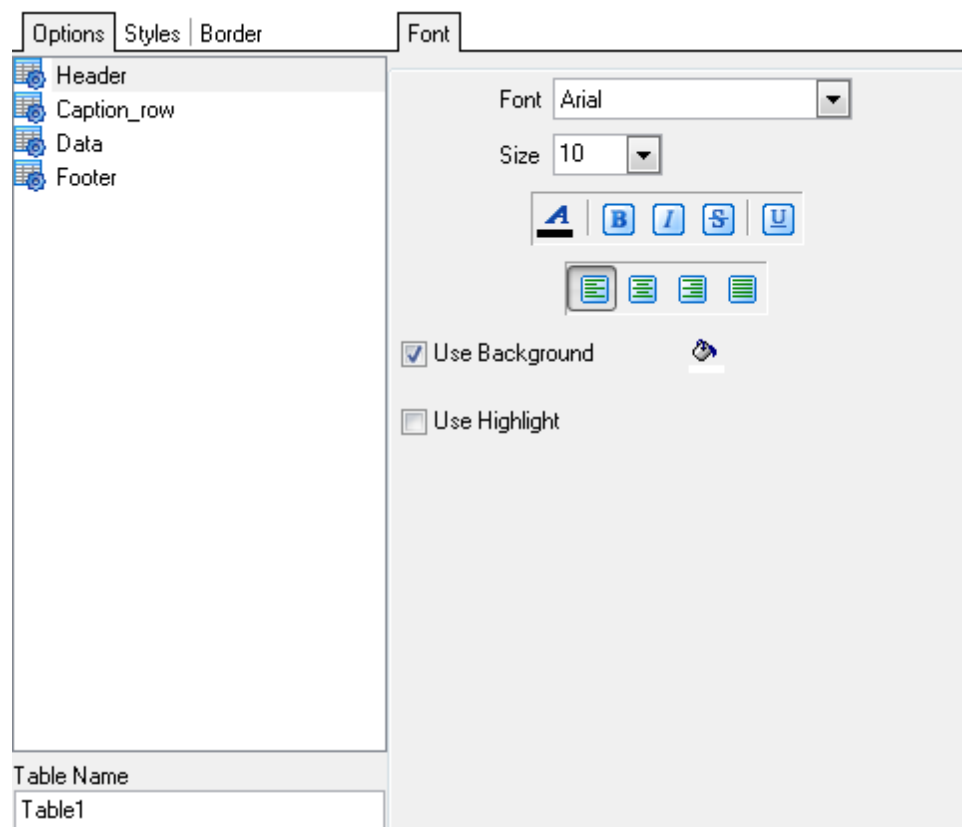
[SQL options](#) ⁷⁵

[XML options](#) ⁷⁷



[DBF options](#) ⁷⁹



[Excel 2007/ODS options](#) ⁸⁰

The **Options** sub-tab contains the list of target file entities, such as table header, data, etc. Using the **Options** tab you can set *font* options for all **elements** of the Word / ODF text document (*HEADER*, *CAPTION*, *DATA*, *FOOTER*). You can customize style options, such as *font* and *size*, *background* and *foreground colors*, *text alignment*, *text highlight*, etc. for each of them by clicking the corresponding item in the list and setting the options in the right-side panel.

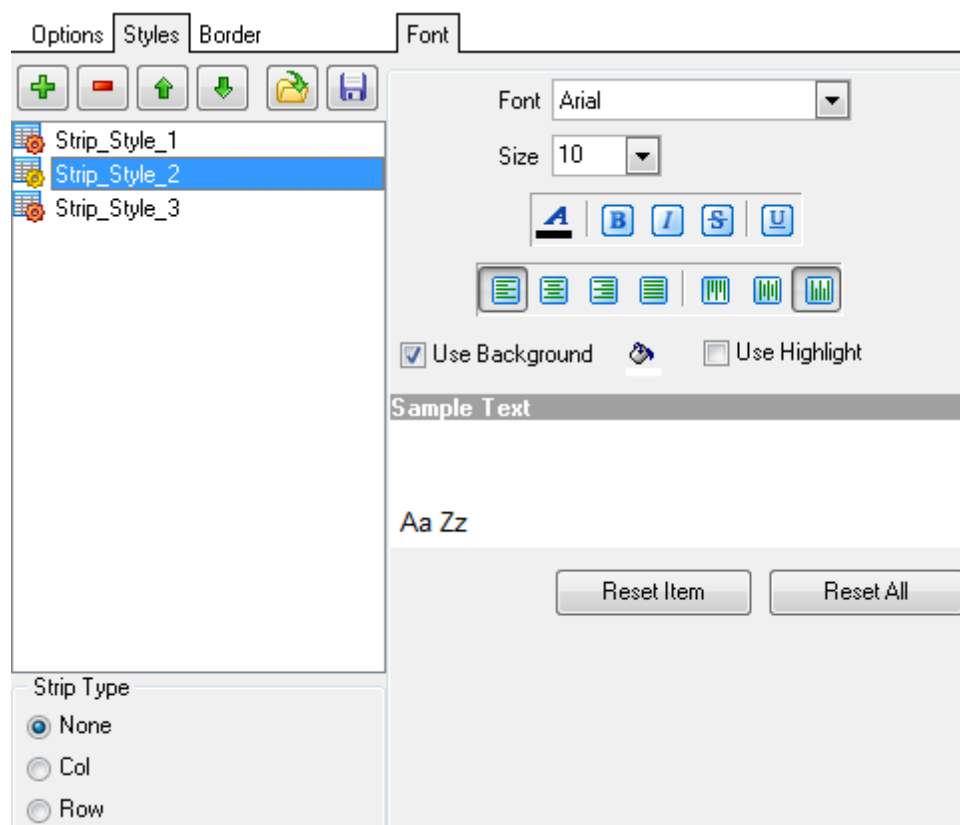




Using the **Styles** tab you can create and save a style template: set *font*, *size*, *background color*, *text alignment*, *highlight* options.

Use   buttons to add/remove a style.

Use   buttons to reorder the style's list.
You can also save styles and load saved ones.

If you have created or loaded more than one style template, they can be ignored, or used *column-by-column* or *row-by-row* (it depends on the **Strip Type** selection).



Press the  button on the left to set the background color.
Press the  button on the right to set the highlight color.

☒ **Use highlight**

Enable this option to be able to select highlight color from the drop-down list.

☒ **Use background**

Enable this option to use the specified color in the result file as background.

Note: For your convenience the previews illustrating the changes are displayed in the **Sample Text** area.

Using the **Border** tab you can enable borders in the result Word / ODF text document and customize them.

Click the **Border Color** icon to select a color using the **Color** dialog where you can specify the required color from the palette.

Border Width

Type in the preferable border width.

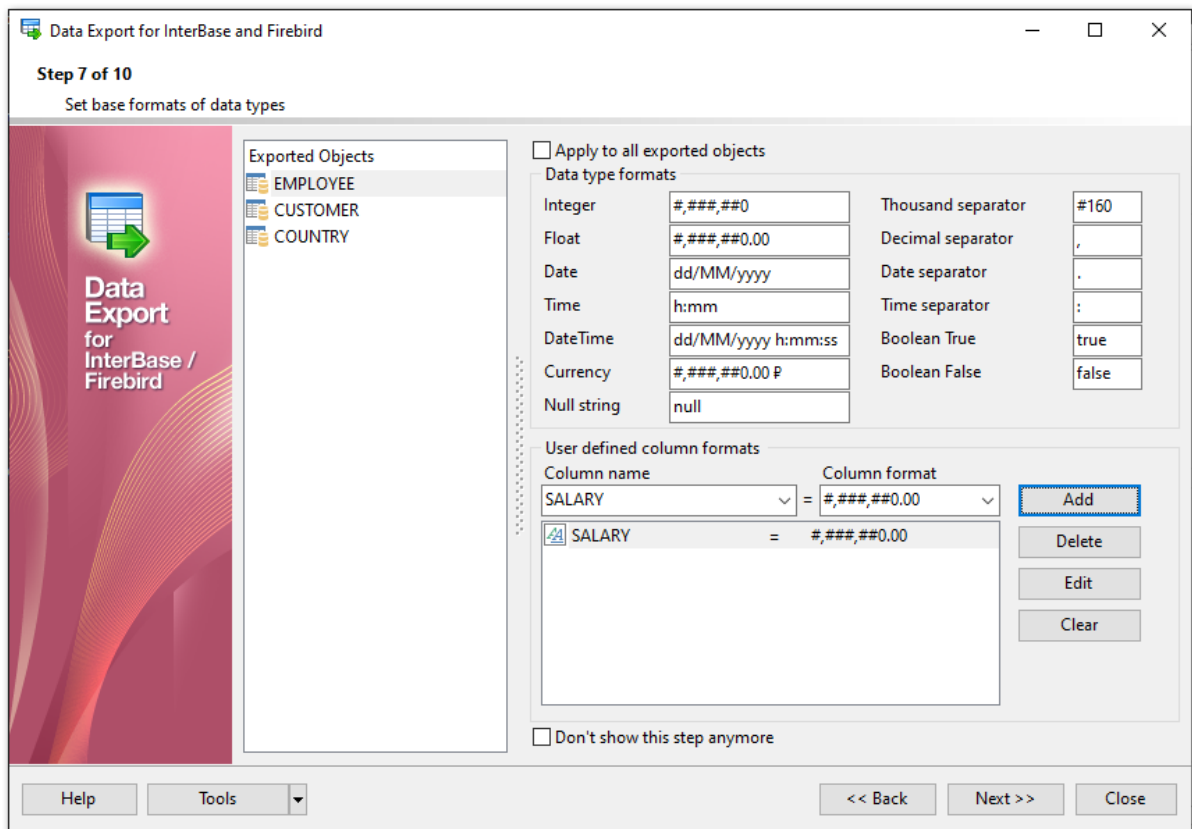


The screenshot shows a dialog box with three tabs: 'Options', 'Styles', and 'Border'. The 'Border' tab is selected. Inside the 'Border' tab, there is a checked checkbox labeled 'Use Border'. Below this, there is a 'Border Color' label next to a color selection tool (a small square with a pencil icon). At the bottom, there is a 'Border Width' label next to a text input field containing the number '1'.

2.1.8 Step 7 - Setting base data formats

Data type formats

Use this group to define formats for the exported columns. You can keep the default format values or edit some of them, if necessary. See [Format specifiers](#)^[110] for more details.



User-defined column formats

Using this group you can also define your own formats for *numeric* and *Date/Time* column. These fields (if there are any in your source table) are available in the drop-down list at the top of the **User** group. Select a column from the **Column Name** drop-down list, then select its format from the **Column Format** drop-down list and click the **Add** button. The column and its format will be added to the list box below. To edit a column format, select the column in the list box and click the **Edit** button. To delete a format, click the **Delete** button. To clear the list box, click the **Clear** button.

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified format for all exported objects.

☒ Don't show this step anymore

Use the option to disable this step. To enable the step use the appropriate option at the [Selecting skipped steps](#)^[100] tab of the [Preferences](#)^[97] dialog.

When you are done, press the **Next** button to proceed to the [next step](#)^[90].

2.1.9 Step 8 - Setting common options

Use this step of the wizard to set common export options. The detailed description of these options is given below.

File properties

Destination file

Use this edit field to set the name of the output file. You can click the **Browse...** button to define it using the **Save As** dialog.

☒ Open file after export

If this option is checked, the result file will be opened with the currently associated program after the export operation is completed.

☒ Print file after export

If this option is checked, the result file will be sent to the default printer after the export operation is completed.

☒ Use file name template

If this option is checked then current date and time are added to the result file name.

Data Export for InterBase and Firebird

Step 8 of 10
Set export final options

Exported Objects

- COUNTRY
- CUSTOMER
- EMPLOYEE
- DEPARTMENT

File properties

Destination File: C:\Program Files (x86)\EMS\Data Export for InterBase & Firebird **Browse...**

☐ Open file after export ☐ Print file after export

☐ Use file name template {filename}_dd/MM/yyyy_hmm

Constraints

Skip: 0 record(s) ☒ Export all records

☐ Export empty data ☐ Export only

☒ Encode binary data to Base64 1 record(s)

Upload options

Upload mode: SFTP

Host: 192.168.0.1 User: login

Port: 22 Password: *****

Path: /path **Check connection**

Load Export Options... **Save Export Options...**

☐ Don't show this step anymore

Help **Tools** **<< Back** **Next >>** **Close**

Constraints

Skip ... record(s)

Specifies the number of records to be skipped before export starts.

☒ Export empty data

The option indicates whether empty records should be exported.

☒ **Export binary data to Base64**

Check this option to encode binary data in the exported file as Base64.

☒ **Export all records**

Specifies that all records of the selected table will be exported.

☒ **Export only ... record(s)**

Specifies the number of records to be exported.

Save Export Options... / Load Export Options...

Use these buttons to save / load all export settings to/from an external configuration file. For details refer to [Configuration file format](#)^[115].

Upload options

Select the protocol in the **Upload mode** field to enable uploading of exported files to FTP server. After that define connection settings:

- **Host** is the name of the FTP server.
- **Port** indicates the port of the FTP server.
- **Path** is the the directory on the FTP server where you want to upload exported files.
- **User** stands for the user name on the machine with FTP server.
- **Password** is the user password.

Click the **Check connection** button to check connection to the FTP server with the settings defined above.

Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified options for all exported objects.

☒ **Don't show this step anymore**

Use the option to disable this step. To enable the step use the appropriate option at the [Selecting skipped steps](#)^[100] tab of the [Preferences](#)^[97] dialog.

When you are done, press the **Next** button to proceed to the [next step](#)^[92] of the wizard.

2.1.10 Step 9: Defining scripts

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

Select a table to define the script for. Type the text of the script to be executed before the export operation in the **Before export script** area, the script to be executed after the export operation in the **After export script** area.

Select another table and add scripts for it, if necessary.

You can also save and load *Before export* and *After export* scripts using the corresponding **Save script...** and **Load script...** buttons. The **Clear** button erases the text and clears the current editor window.

☐ Apply to all exported objects

Before export script

```
/*Specify the script that will be executed
BEFORE data synchronization*/
```

Load script... Save script... Clear

After export script

```
/*Specify the script that will be executed
AFTER data synchronization*/
```

Load script... Save script... Clear

☐ Don't show this step anymore

☒ Don't show this step anymore

Use the option to disable this step. To enable the step use the appropriate option at the [Selecting skipped steps](#)^[100] tab of the [Preferences](#)^[97] dialog.

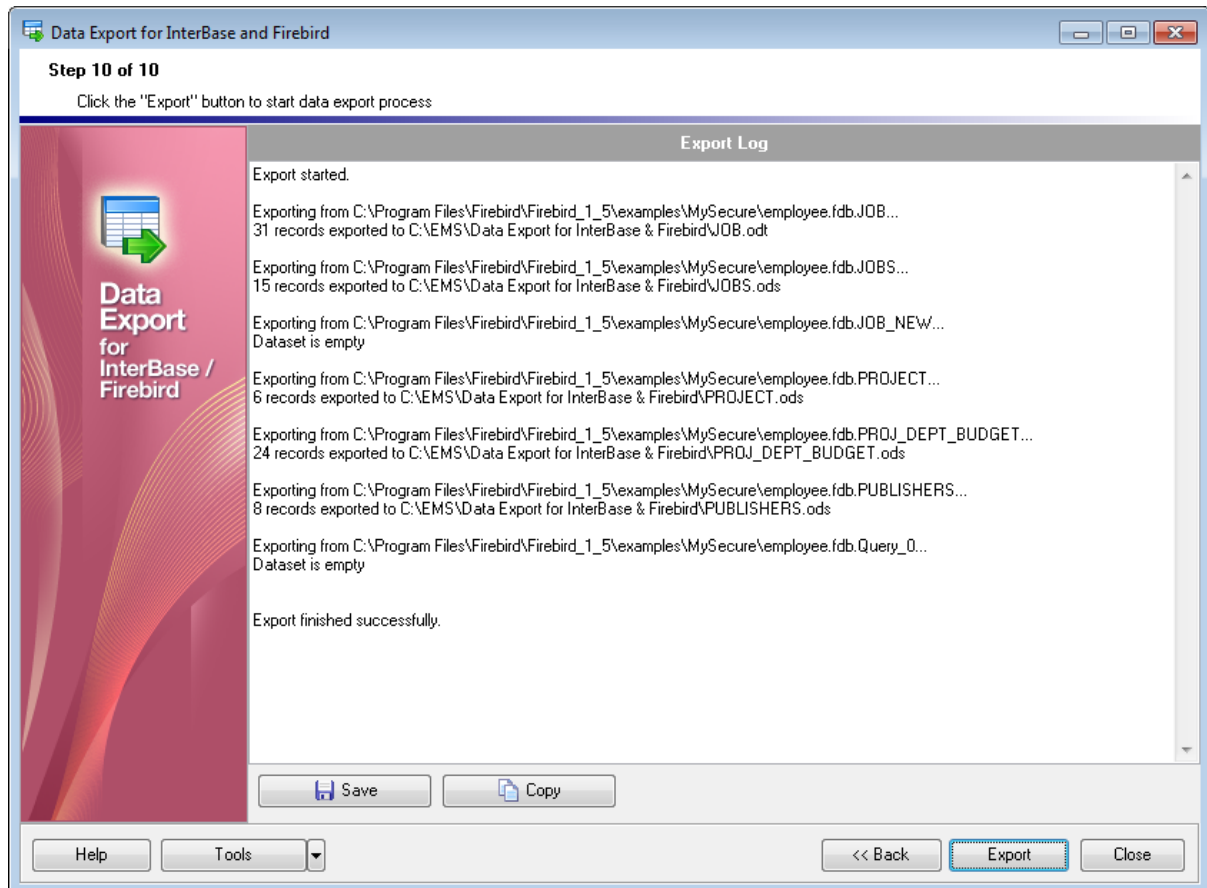
Hint: If more convenient, you can check the ☒ **Apply to all exported objects** box to set the specified options for all exported objects.



When you are done, press the **Next** button to proceed to the [last step](#)^[94] of the wizard.

2.1.11 Step 10 - Start of data export process

This step of the wizard is intended to inform you that all export options have been set, and you can start the export process.

If everything is correct, press the **Export** button to start the process. If you want to change something, you can return to any of the wizard steps using the **Back** button.



You can  save process log into *.log file or  copy it to a clipboard using the corresponding buttons.


Please, do not forget to [save export templates](#)^[95] if you need to repeat the export process with the same or similar settings later.

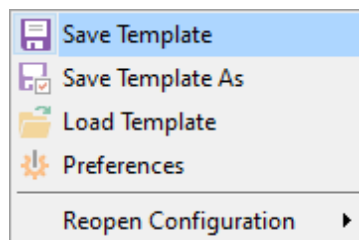
2.2 Using configuration files (templates)

Data Export for Interbase/Firebird allows you to save configuration settings in external *.cfg files if you need to perform the data export process repeatedly.


You can load previously saved configuration settings to the application [wizard](#)^[28] if you need to make some changes before data export, or you can run it with the [console application](#)^[105] for quicker export.

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

Note: You can save changes to a template without recalling the save dialog using the  **Save Template As** popup menu item.

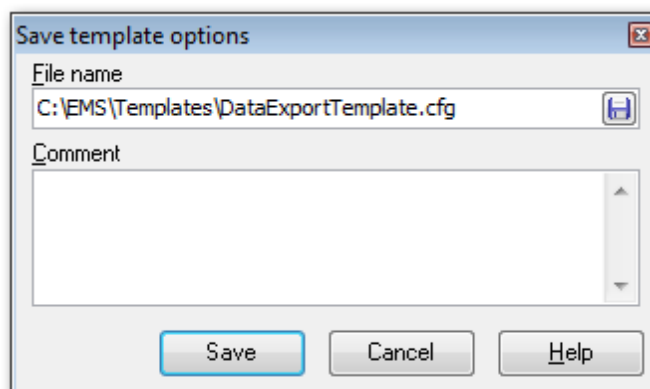


File name

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

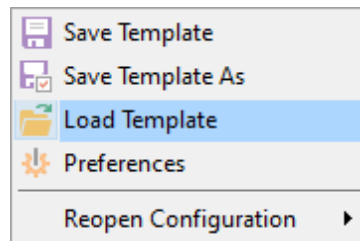
Comment

Specify custom comment for the template file if need.



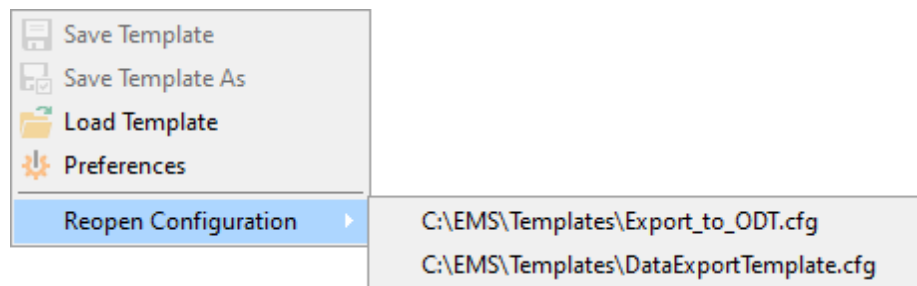
If you need to repeat data exporting process with the same or similar settings later, it is reasonable to save all the settings you entered on the [Start of data export process](#)^[94] step of the Wizard.

Data Export templates are loaded within the **Open template** dialog. To open this dialog, press the **Tools** button and select the  **Load template** popup menu item.



Please note that loading a template is only available at the [Getting started](#)^[29] and the [Setting connection properties](#)^[30] steps of the Wizard.

If necessary, you can **reload a template** using the **Reopen configuration** popup menu item of the **Tools** menu.



When the configuration file is loaded, you can browse (or change the settings, if necessary) in all steps of the wizard.

See also:

[Working with wizard application](#)

^[28]

[Setting program preferences](#)^[97]

2.3 Setting program preferences

Data Export for Interbase/Firebird provides an optimization of the program by setting various options within the  **Preferences** dialog. This chapter is intended to inform you how to use all these options.

[General options](#)^[98]

These options define general behavior of Data Export for Interbase/Firebird.

[Selecting skipped steps](#)^[100]

Manage steps that are visible or hidden in the wizard.

[Default data formats](#)^[101]

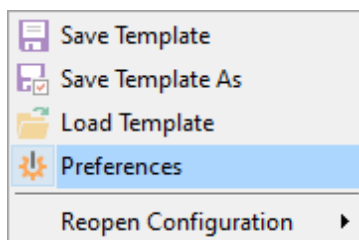
This page allows you to set default data formats.

[Default query](#)^[102]

This page allows you to input a template for a new query that will appear at [Step 3](#)^[34] of [Wizard Application](#)^[27].

[Localization](#)^[103]

This page allows you to select a language to be applied for your copy of Data Export for Interbase/Firebird.



See also:

[Working with wizard application](#)

^[28]

[Using configuration files](#)^[95]

2.3.1 **General Theme** Setting general options

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

☒ **Confirmation on exit**

Enables/disables confirmation upon exiting the program.

☒ **Save password**

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

☒ **Format SQL values**

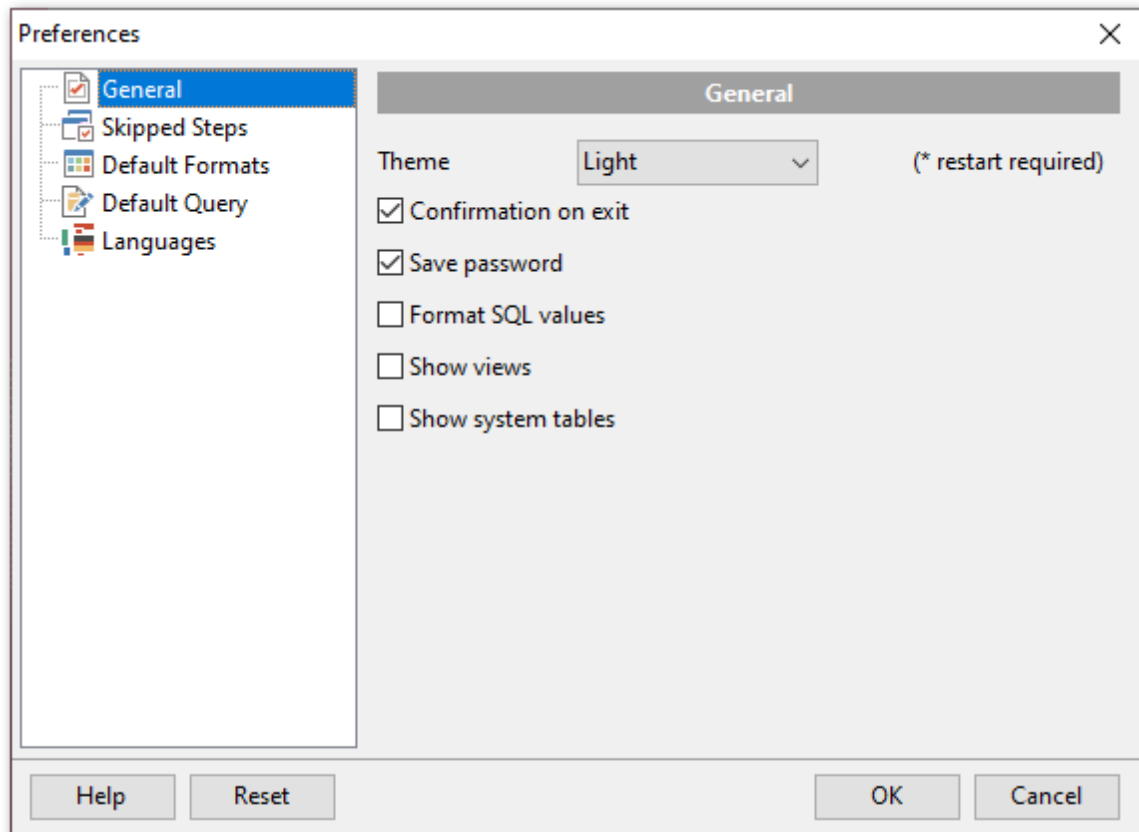
The option determines whether SQL values (e.g. integer, float, currency, datetime, etc.) should be formatted according to the settings specified on the [Default formats](#)^[10] page.

☒ **Show views**

By setting this option on you can export data from views - they will appear in the list of available tables at [Step 2](#)^[33] of the [Wizard application](#)^[27].

☒ **Show system tables**

Enable this options if you need system tables to be added to the list at [Step 2](#)^[33].



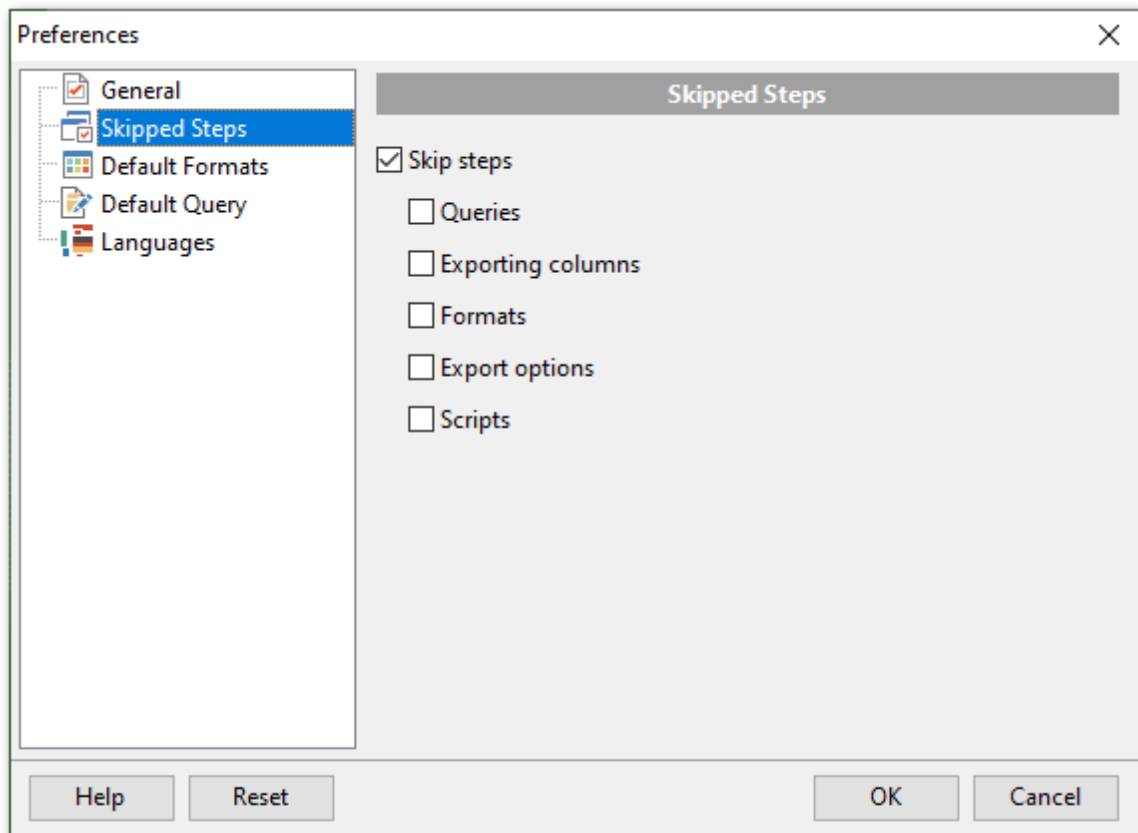
See also:[Setting default formats](#)^[101][Selecting skipped steps](#)^[100][Setting default query template](#)^[102][Selecting program language](#)^[103]

2.3.2 [Skipped steps](#)

Use this option group to define the [Wizard application](#)^[27] steps to be skipped. The steps presented in the list contain the ☒ **Don't show this step anymore** that indicates whether this step should be skipped. Enabling steps marked as skipped is possible only in current dialog.

☒ **Skip steps**

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



See also:

[Setting general options](#)^[98]

[Setting default formats](#)^[101]

[Setting default query template](#)^[102]

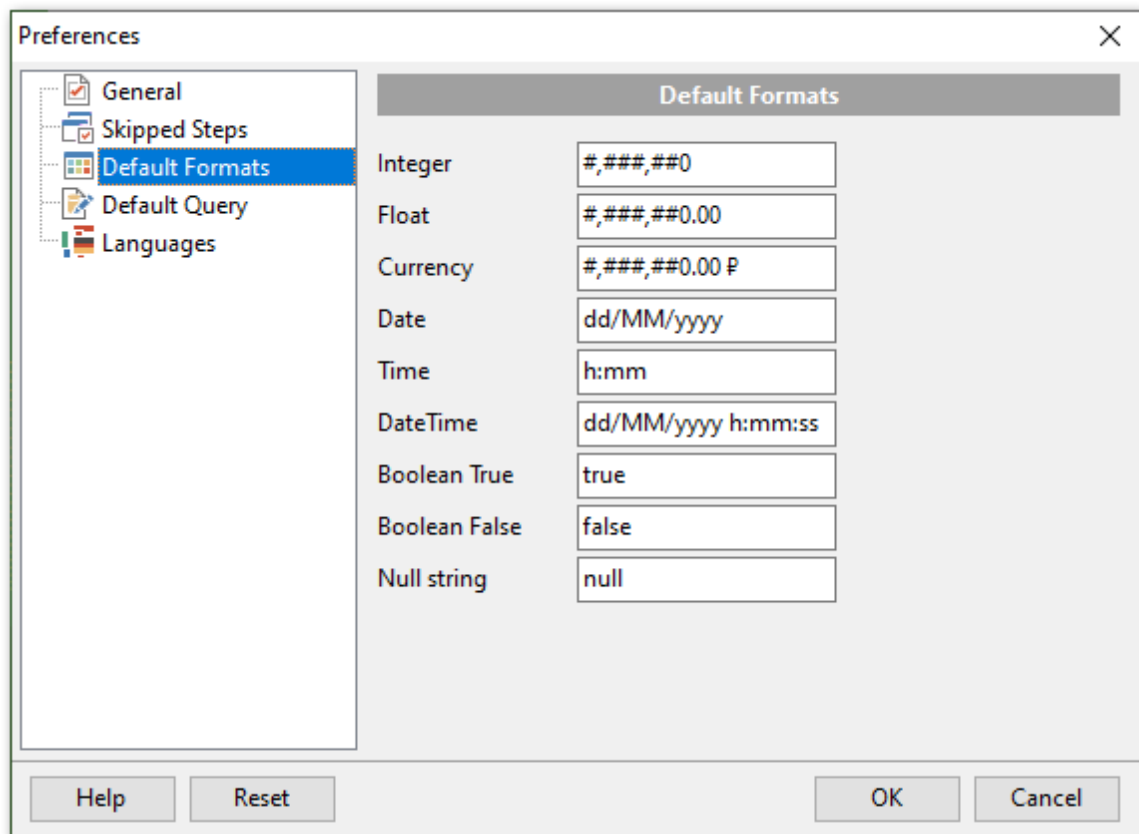
[Selecting program language](#)^[103]

2.3.3 Setting default formats

This panel allows you to customize formats applied to exported data. Edit the format masks to adjust the result format in the way you need, or click the **Reset** button if you wish to apply default data formats.

The current format settings will be used if the **Format SQL values** option is enabled ([Preferences | General](#)^[98]).

See [Format specifiers](#)^[110] for details.



See also:

[Setting general options](#)^[98]

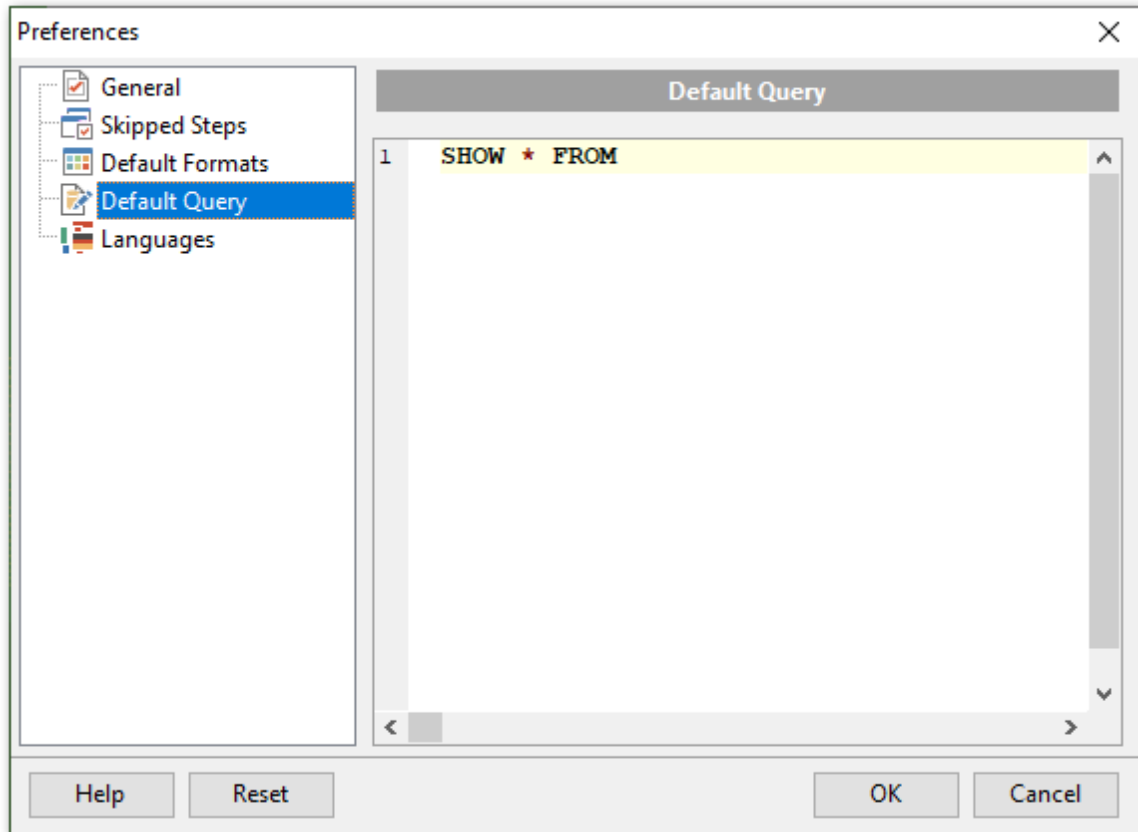
[Selecting skipped steps](#)^[100]

[Setting default query template](#)^[102]

[Selecting program language](#)^[103]

2.3.4 Setting default query template

This panel allows you to define the default query text that is used on adding a new query at [Step 3](#)^[34] of the [Wizard application](#)^[27].



See also:

[Setting general options](#)^[98]

[Selecting skipped steps](#)^[100]

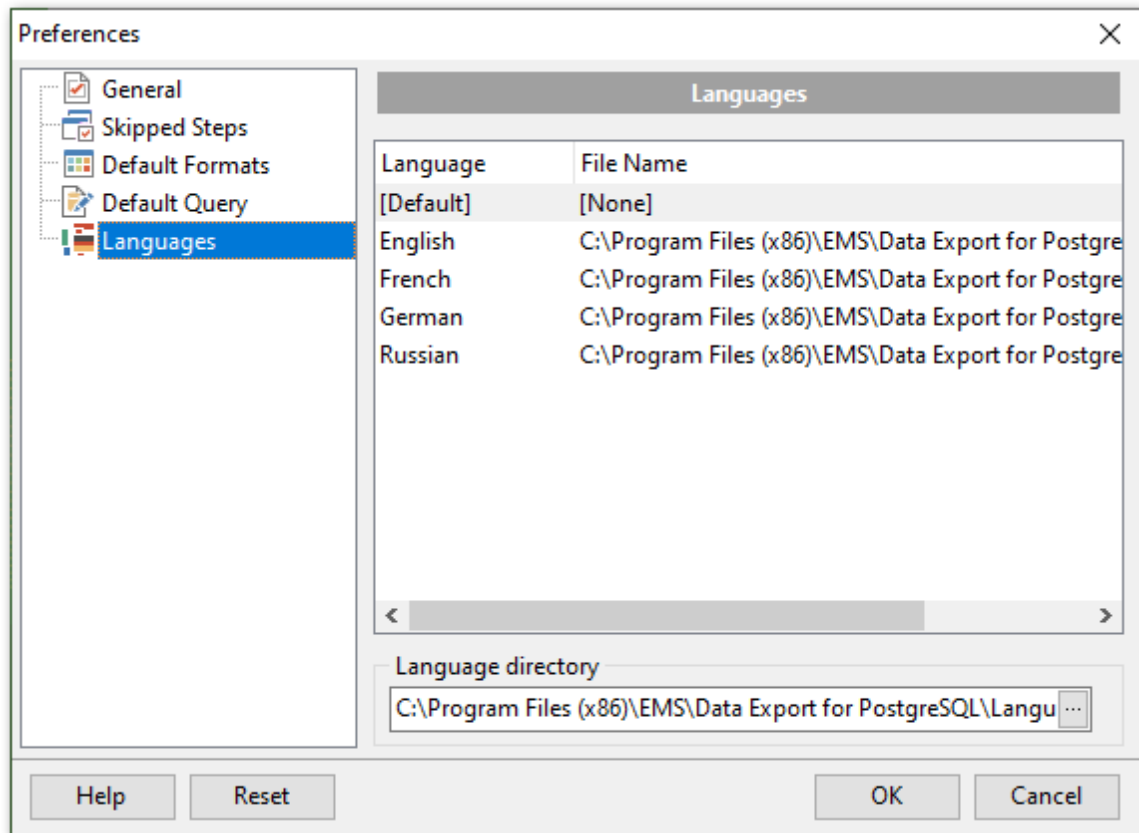
[Setting default formats](#)^[101]

[Selecting program language](#)^[103]


2.3.5 The Languages page is provided for managing Data Export localization files.

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

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



Language Directory

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

See also:

[Setting general options](#) ⁹⁸

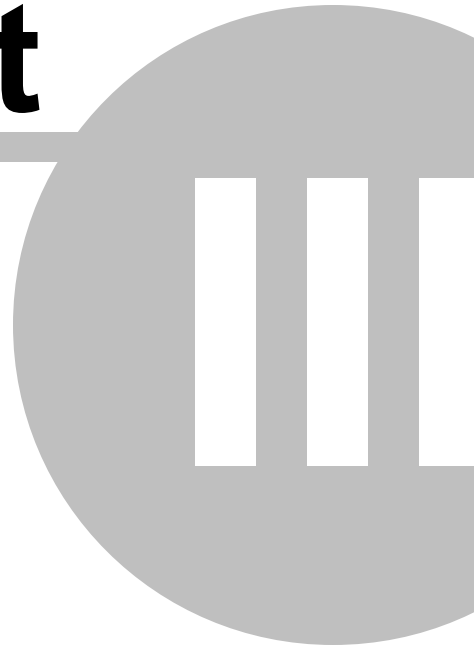
[Selecting skipped steps](#) ¹⁰⁰

[Setting default formats](#) ¹⁰¹

[Setting default query template](#)

¹⁰²

Part



3 Console application

Additionally to the **GUI version** which is implemented in the form of a [wizard application](#)^[27], the installation package of Data Export for Interbase/Firebird includes **the console version** which is intended for running from Windows command line with a [template](#)^[95] file name used as the execution parameter. You can schedule exporting using *Scheduled Tasks* tool implemented in Windows.

```
C:\Program Files\EMS\Data Export for InterBase>IbExportC.exe_
```

Data Export for Interbase/Firebird command line utility is intended for quick and powerful data export from Interbase/Firebird tables.

- [Working with console application](#)^[106]
- [How to schedule console run](#)^[107]
- [Configuration file format](#)^[115]

See also:

[Wizard application](#)^[27]

3.1 Working with console application

All the [working with console application](#) ^[27] can be also used in the **Console version** of Data Export for Interbase/Firebird.

To create a configuration (template) file, follow the instructions below:

- start Data Export [Application wizard](#) ^[27];
- set all the required options in all steps of the wizard;
- test the export process at the last step;
- save all export options in the [template](#) ^[95].

The easiest way to start Data Export for Interbase/Firebird console application is to double-click the generated *.cfg template. The other way is to enter the command line and type the appropriate command.

Usage:

```
<path to Data Export for Interbase/Firebird console application>\IbExportC.exe  
TemplateFile [-B]
```

TemplateFile

Stands for the path and the name of *.cfg template file to be used as the console version execution parameter

[-B]

Use this parameter in the command line to run the console version of Data Export for Interbase/Firebird in the background mode

Example:

```
"C:\Program Files\EMS\Data Export for InterBase & Firebird\IbExportC.exe" "C:  
\EMS\DataExport\Example.cfg" -B
```

Using parameters in queries

```
IbExportC.exe [Template file] -[Query name]:[Parameter name]=[Value] -[Query name]:  
[Parameter name]=[Value] etc.  
(see Using query parameters [117])
```

Note: The following exit codes can be returned by Data Export for Interbase/Firebird to the operating system after performing the latest task:

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

See also:

[Working with wizard application](#)

^[28]

[How to schedule console run](#) ^[107]

3.2 How to schedule console run

Here is how to schedule console application with standard Windows scheduler:

1. Set all options in the program and click Tools --> Save template on the last step..
2. Open the command line in Windows (type CMD in the Run... dialog).
3. Use the following command to run the console version with the saved template:
<path to Data Export for Interbase/Firebird console application>\IbExportC.exe
TemplateFile [-B]
For example:
"C:\Program Files\EMS\Data Export for InterBase & Firebird\IbExportC.exe" "C:\EMS\DataExport\Example.cfg" -B
4. Launch the standard Task Scheduler tool in Windows OS.
5. Set the command for exporting data as described above.
6. Set the schedule for the command execution.
7. Save the scheduled task.

See also:

[Working with console application](#)

[106](#)

[Configuration file format](#)

[115](#)

Part

IV

4 Appendix

4.1 To setup the connection via **SSH tunnel**, input the following values in the corresponding fields: **SSH tunneling options**

- **SSH host name** is the name of the host where SSH server is running
- **SSH port** indicates the port where SSH server is activated
- **SSH user name** stands for the user on the machine where SSH server is running (**Note:** it is a Linux/Windows user, not a user of Interbase/Firebird server)
- **SSH password** is the Linux/Windows user password

Please note that Interbase/Firebird **host name** should be set relatively to the SSH server in this case. For example, if both Interbase/Firebird and SSH servers are located on the same computer, you should specify *localhost* as **host name** instead of the server external host name or IP address.

☒ **Use Private Key for authentication**

If the SSH encryption is enabled on the SSH server, a user can generate a pair of cryptographic keys (the **Private key** and the **Public key**). The **Public key** is placed on the SSH server, and the **Private key** is the part you keep secret inside a secure box that can only be opened with the correct passphrase (or an empty string as the passphrase). When you wish to access the remote system, you open the secure box with your passphrase (if any), and use the private key to authenticate yourself with the Public key on the remote Linux computer.

SSH Key file

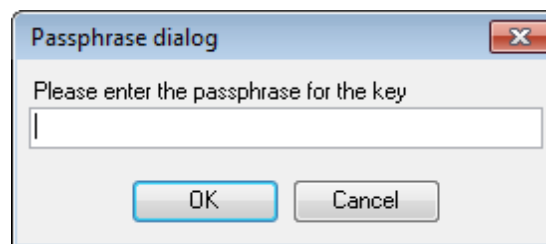
Specify the location (the secure box) of the **Private key** file on your local machine. Supported Private Key file formats are:

OpenSSH

Putty

SSH.com

Note that you need to trust your local machine not to scrape your passphrase or a copy of your Private key file while it is out of its secure box.



4.2 Format specifiers

Float/Integer format

0

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

#

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

.

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

,

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

E+

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

Date/Time format

c

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

d

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

dd

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

ddd

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

dddd

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

dddddd

Displays the date using the Short Date Format.

dddddd

Displays the date using the Long Date Format.

e

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

ee

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

g

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

gg

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

M

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

MM

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

MMM

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

MMMM

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

yy

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

yyyy

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

h

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

hh

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

m

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

mm

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

s

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

ss

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

z

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

zzz

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

t

Displays the time using the Short Time Format.

tt

Displays the time using the Long Time Format.

am/pm

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

a/p

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

ampm

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

/

Displays the date separator character using the Date Separator.

:

Displays the time separator character using the Time Separator.

'xx'/"xx"

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

4.3 Supported file formats

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

• MS Access 97-2003

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

• MS Word 97-2003

One of the most popular text processing formats used by Microsoft® Word (*.doc). The result files are fully compatible with Microsoft® Word versions 97-2000, 2003 and XP.

• 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 e-table format used by Microsoft® Excel (*.xlsx).

• MS Word

The text processing format used by Microsoft® Word (*.docx).

• MS Access

The database file format used by Microsoft® Word (*.accdb).

• ODF Spreadsheets

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

• ODF text

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

4.4 Configuration file format

The configuration file for Data Export for Interbase/Firebird is divided into several sections, each corresponding to a particular group of settings specified at different steps of the [GUI application](#)^[28] wizard.

[#General#]

This section stores information about the product name and its major [version](#)^[13].

[#General#]

This section stores general information about the utility:

[Connection]

This section contains parameters for [connecting](#)^[30] to the server: *Host, Port, tunneling settings, Login, Password* (encrypted). These parameters are obligatory.

Note that parameter *DBName* used in previous versions is no more obligatory. You can set databases for each table and query separately in the *[Databases]* section.

[Tables]

This section contains the list of database [tables](#)^[33] to export in the following format:

<table key>=<table name>

e.g.

table1=Country

table2=Employee

This section may be empty.

[Queries]

This section contains the list of [queries](#)^[34] and their identifiers (used while loading queries into the wizard application) in the following format:

<query key>=<query identifier>

e.g.

query1=CountryQ

[SQL_<query key>]

Sections of this type contain query text for each query. The lines must be specified in the following format:

Item_0=<query line 1>

Item_1=<query line2>

etc.

See the example below:

[Queries]

query0=Query_0

[SQL_query0]

Item_0=select name, capital

Item_1=from countries

Item_2=where continent = 'South America'

This section may also be empty, but remember that if you do not specify any table or query, no data are exported.

[Files]

This section lists files for data export in the following format:

```
<table key>=<filename>  
<query key>=<filename>  
etc.
```

You can specify either full paths or relative paths, e.g.

```
table1=table1.xls
```

or

```
query1=C:\Exported data\query1.docx
```

Note that you must specify the file extension properly to receive data in the required format. Otherwise, extension *.xls* is taken by default.

[Databases]

This section allows you to specify a database for each table and query in the following format:

```
<table key>=<database name>  
<query key>=<database name>
```

If you do not specify a database for a table or a query, the database name for this table or query is taken from the *DBName* parameter value of the *[Connection]* section.

[Templates]

This section specifies template files for each table or query. This template (**.exp*) file is generated by the utility with the configuration (**.cfg*) file and contains various export settings: export type, result filename, fields for export, number of records to export, specific Excel, RTF, HTML, or other options and more.

The section has the following format:

```
<table key>=<template filename>  
<query key>=<template filename>  
etc.
```

You can specify either full or relative file paths, e.g.

```
table1=template1_xls.exp
```

or

```
query_clients=D:\Templates\template2_rtf.exp
```

If you do not specify any file name in the *[Files]* section, it is taken from the template. If you specify neither file name, nor template for table or query, then the *<table name>.xls* filename is taken by default for tables, or *<query key>.xls* for queries.

You can set arbitrary table or query keys in the **[Tables]**, **[Queries]**, **[Files]**, **[Databases]** and **[Templates]** sections, but they MUST NOT contain spaces and they MUST be identical in different sections.

4.5 Using query parameters

Both [GUI version](#)^[95] and [console version](#)^[105] of Data Export for Interbase/Firebird support parameters in a query.

For example, you export data from a table named *table1* and at [Step 3](#)^[34] of the [GUI](#)^[27] version of the utility you specify the following query, e.g. *Query_0*:

```
SELECT * FROM table1 WHERE field1 > :param0
```

Then you need to save the [template](#)^[95] file which will be used in the [console version](#)^[105] of the utility. To set the parameter value when using the [console version](#)^[105], you need to specify the following command in the command line (if you run the console version from the program installation directory and the [template](#)^[95] file is also located in this directory):

```
IbExportC.exe TemplateFile -Query_0:param0=5
```

where 5 is the query parameter value

If you export data from multiple queries, you need to specify the following command in the command line:

```
IbExportC.exe TemplateFile -Query_0:param0=5 -Query_1:param1=10 -Query_2:  
param2=15
```

where 5, 10, 15 are the query parameter values

See also:

[Working with console application](#)^[106]

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