

SQL Manager.net™

EMS® Software Development

SQL Management Studio for Oracle User's Manual

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SQL Management Studio for Oracle User's Manual

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Part



1 Welcome to EMS SQL Studio!

SQL Management Studio for Oracle is a complete solution for database administration and development. Whether you are a database or application developer, DBA or business analyst, **SQL Studio** offers all essential tools to make you more productive than ever before. **SQL Studio** brings these tools together in a single, powerful, and easy-to-use work environment.

SQL Studio provides the must-have tools for administering databases and managing database objects as well as for database migration, comparison and extraction, data import, export and comparison.

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

Documentation in other languages can be found at: <https://www.sqlmanager.net/products/studio/oracle/downloads>

Key features

- Easy launch of utilities and services
- Storing all templates in a single repository
- Common data source list for all services and utilities
- Creating of complicated branched scripts
- Ability to run external applications from scripts
- Storing of all script execution logs in one database
- Scheduled script execution
- Creating of customized notifications with various delivery methods
- Fast access to Technical Support Service
- One way to customize the appearance for all apps

and more...

Benefits

- All database tasks are quick to execute, leaving you to focus on the result
- With a single template repository your work with utilities is as simple as possible
- Flexible scripts result in massive time savings, doing all routine jobs for you
- Script scheduling will automate routine tasks
- Notification e-mails will let you stay up-to-date and react fast
- All logs are stored in one place, putting you totally in charge of all operations
- Visual interface style is set consistently for all products for your convenience

and more...

Product information

Homepage: <https://www.sqlmanager.net/products/studio/oracle>

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

Register on-line at: <https://www.sqlmanager.net/products/studio/oracle/buy>

1.1 What's new

Version

SQL Management Studio for Oracle 2.0

What's new in SQL Management Studio for Oracle?

- Dark visual theme is now supported.
- Added support for Windows 11 ARM.
- Tasks and schedules can now be exported and imported.
- Encryption is now available for email notifications.
- Log file names now support custom date/time format masks.
- Improved support for high-resolution monitors and systems with larger font sizes.
- Other improvements and fixes.

1.2 System requirements

System requirements for SQL Management Studio for Oracle

- Microsoft Windows XP, Microsoft Windows Server 2003, Microsoft Windows Server 2008, Microsoft Windows Server 2008 R2, Microsoft Windows Server 2012, Microsoft Windows Server 2012 R2, Microsoft Windows Server 2016, Microsoft Windows Server 2019, Microsoft Windows Vista, Microsoft Windows 7, Microsoft Windows 8/8.1, Microsoft Windows 10, Microsoft Windows 11, Microsoft Windows 11 ARM
- 140MB of available HD space for program installation
- Local or remote Oracle Database Server 8.1.7 or higher
- Possibility to connect to any local or remote Oracleserver

1.3 Installation

If you are **installing SQL Studio for the first time** on your PC:

- download the SQL Studio distribution package from the [download page](#) available on our website;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- run *orastudio.msi* from the local directory and follow the instructions of the installation wizard;
- after the installation process is completed, find the SQL Studio shortcut in the corresponding group of Windows Start menu.

If you want to **upgrade an installed copy of SQL Studio** to the latest version:

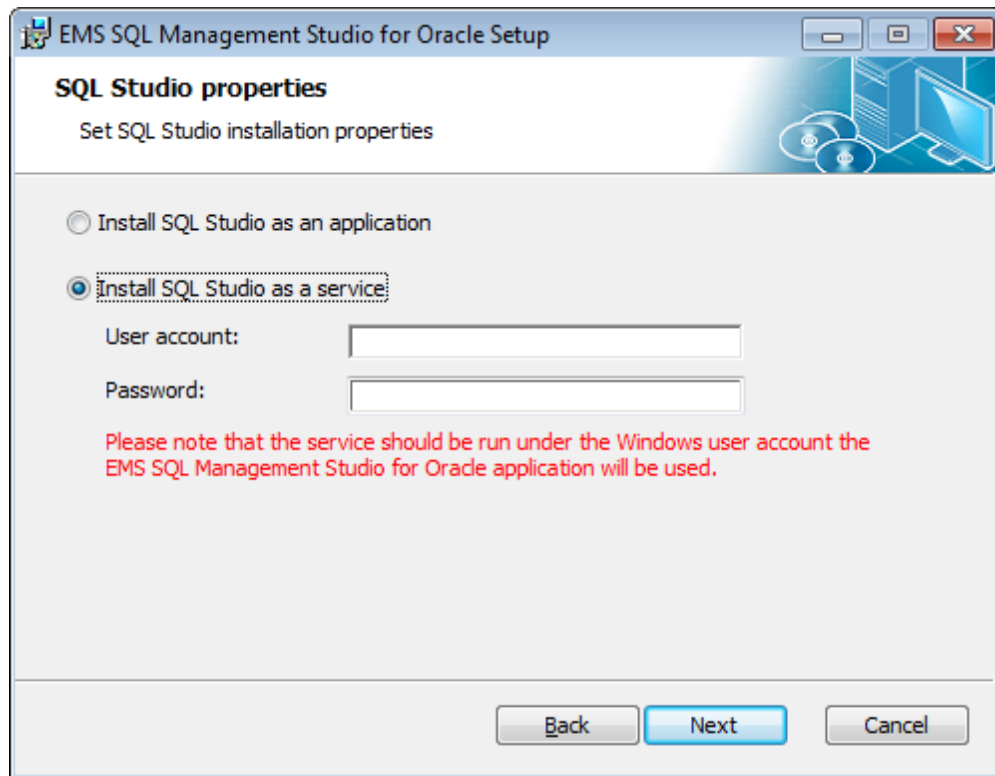
- download the SQL Studio distribution package from the [download page](#) available at our site;
- unzip the downloaded file to any local directory, e.g. *C:\unzipped*;
- close SQL Studio application if it is running;
- run *orastudio.msi* from the local directory and follow the instructions of the installation wizard.

During the installation process you will be offered to select either to run SQL Studio as an application or a service.

When installed as a service, SQL Studio will run independently of the user account currently logged in and will use the Windows user account *User name* and *Password* specified during the installation process.

Note: Use *DOMAIN_NAME\USER_NAME* format to specify a domain user account.

Please note that the service must run under the Windows user account that will be used to run SQL Management Studio for Oracle application.



In order to install the program in silent mode as an application you should execute the following command:

```
msiexec.exe /i /quiet xxstudio.msi
```

In order to install the program in the silent mode as a service execute the following command:

```
msiexec.exe /i /quiet xxstudio.msi SERVICE_INSTALL=1 SERVICE_USERNAME="computer_name\
```

Please remember that the *User account* must be defined with the domain name or the computer name, as shown in the example above. You can use the ".\user_name" format as well.

See also:

[System requirements](#)

1.4 Registration

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

PayPro Global is a global e-commerce provider for software and shareware sales via the Internet. It accepts payments in US Dollars, Euros, Pounds Sterling, Japanese Yen, Australian Dollars, Canadian Dollars or Swiss Francs by Credit Card (Visa, MasterCard/EuroCard, American Express, Diners Club), or by 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. You will also receive a copy of the registration keys by email. Please make sure to enter a valid email address when placing 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://www.sqlmanager.net/products/studio/oracle>

Product distribution	PayPro Global
SQL Management Studio for Oracle (Business license) + 1-Year Maintenance*	Buy Now!
SQL Management Studio for Oracle (Business license) + 2-Year Maintenance*	
SQL Management Studio for Oracle (Business license) + 3-Year Maintenance*	
SQL Management Studio for Oracle (Non-commercial license) + 1-Year Maintenance*	
SQL Management Studio for Oracle (Non-commercial license) + 2-Year Maintenance*	
SQL Management Studio for Oracle (Non-commercial license) + 3-Year Maintenance*	
SQL Management Studio for Oracle (Trial version)	Download Now!

***EMS Maintenance Program** provides the following benefits:

- Free software bug fixes, enhancements, updates and upgrades during the maintenance period
- Free unlimited communications with technical staff for the purpose of reporting Software failures
- Free reasonable number of communications for the purpose of consultation on operational aspects of the software

After your maintenance expires, you will not be able to update your software or get technical support. To protect your investments and have your software up-to-date, you need to renew your maintenance.

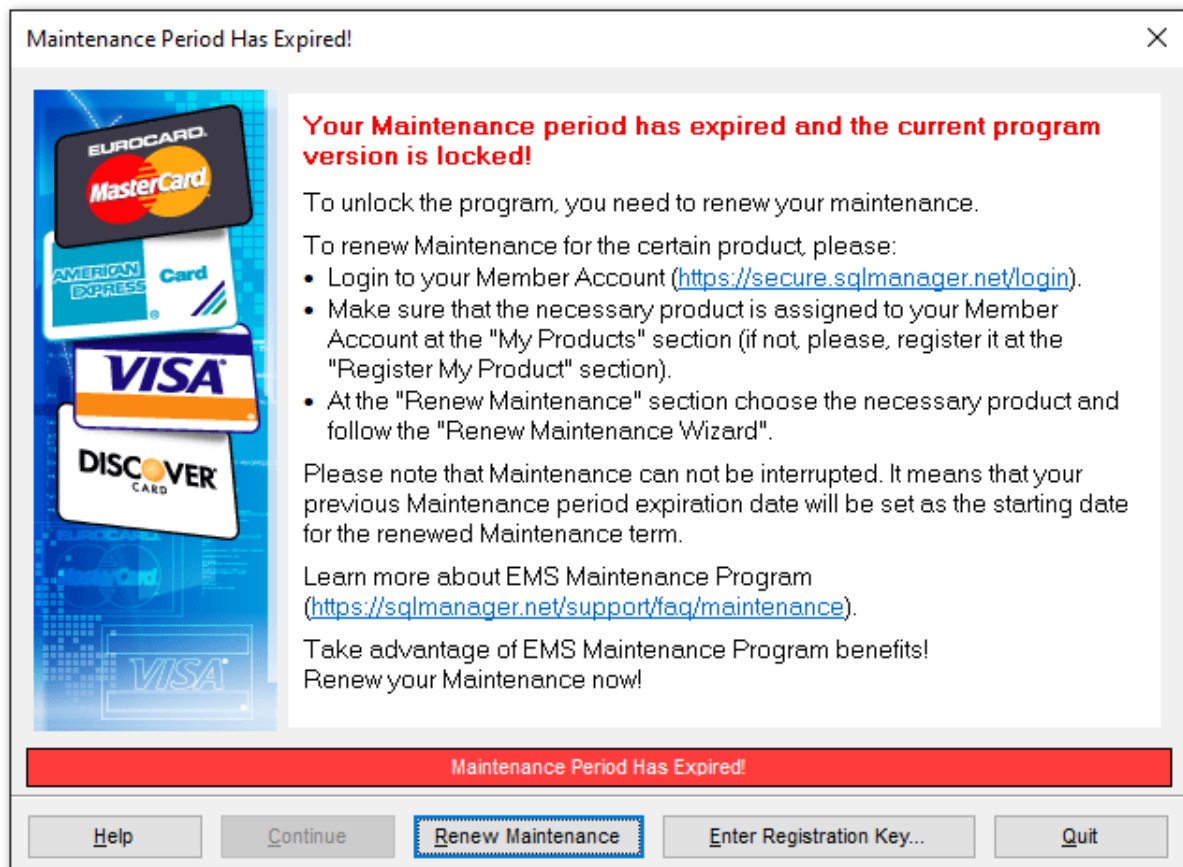
You can easily reinitiate/renew your maintenance with our on-line, speed-through Maintenance Reinstatement/Renewal Interface. After reinitiating/renewing you will receive a confirmation e-mail with all the necessary information.

See also:

[How to register SQL Studio](#)

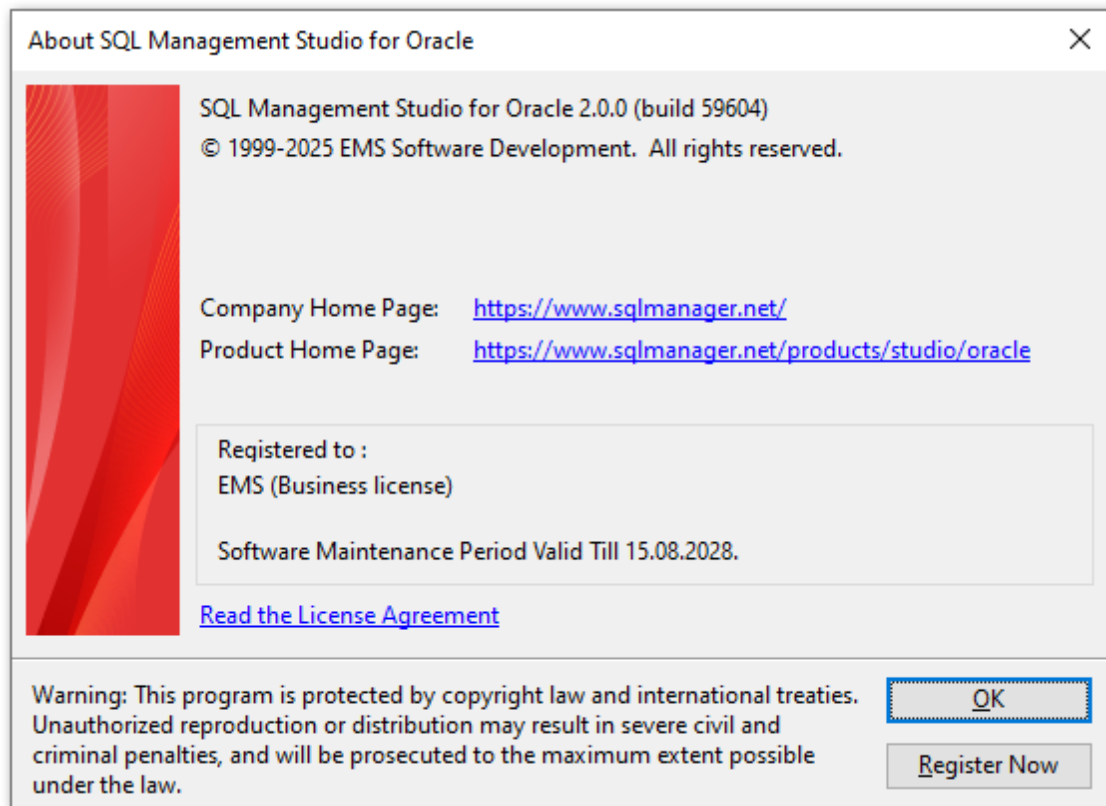
1.5 How to register SQL Studio

After installing SQL Management Studio for Oracle, you will be offered a 30-day evaluation period. The trial version of the software stays fully functional with some minor limitations. During the entire trial period, a dialog as shown below will appear.



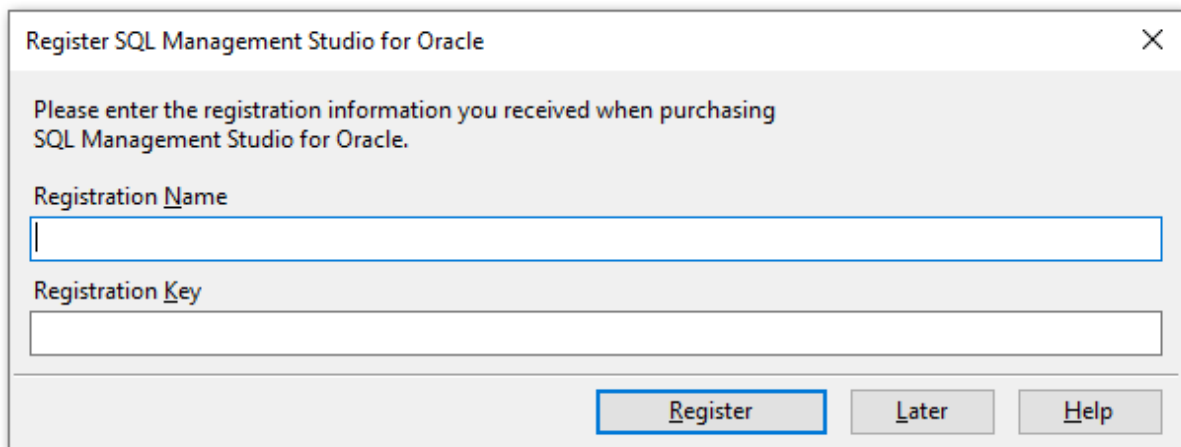
After the trial period expires, you will not be able to evaluate the software. Further usage of your SQL Management Studio for Oracle copy is only available after purchase and registration.

You can register your copy of SQL Management Studio for Oracle by selecting the **Help | Register SQL Studio** main menu item or by selecting the **Help | About** main menu item and pressing the **Register Now** button to call the **Register SQL Management Studio for Oracle** dialog.



To register your newly purchased copy of EMS SQL Management Studio for Oracle, perform the following steps:

- 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 in the **About SQL Management Studio for Oracle** dialog (use the **Help | About** main menu item to open this dialog).



The **Registration Key** you receive includes a **Maintenance license** that is valid for a specific period. After your maintenance expires, you will not be able to update your

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

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

1.6 EMS SQL Studio FAQ

Please read this page attentively if you have questions about **EMS SQL Management Studio for Oracle**.

Product questions

- [What is EMS SQL Management Studio?](#)
- [SQL Studio embraces a variety of capabilities, but will I need them all? Is there a simpler product?](#)
- [What do I need to start working with SQL Studio?](#)
- [Many utilities that are included in SQL Studio are also offered as stand-alone products. What are the advantages of purchasing them within the Studio?](#)

DB registration and connection

- [Can I work with several databases simultaneously? I use Windows OS, but my remote Oracle server is running on Linux OS. Will I be able to use SQL Studio to work with this server?](#)
- [Why does SQL Studio use a single registered database repository?](#)
- [What is SSH tunneling?](#)
- [I work behind a firewall \(router\). Can I use SQL Studio to manage a remote server?](#)
- [I can't configure the connection to Oracle server by SSH. Which values do I need to input on the SSH page of the Database Registration Info dialog?](#)

Objects manipulation

- [Which database objects will be accessible through SQL Studio?](#)
- [I have over a million records in the table, yet the data grid displays only 1,000 of them. What is the problem?](#)
- [How can I speed up my work with large tables?](#)
- [Which operations can I perform over database objects?](#)
- [When creating a table like 'TestTable', it will get stored as 'TESTTABLE'. How can I get objects stored as I create them using SQL Manager?](#)
- [How can I customize data formats in a grid?](#)
- [I can't modify DDL. Why?](#)

Query

- [I'm new to SQL, and I can hardly compose the SQL statements by hand. Does SQL Studio have a visual query builder like in MS Access?](#)
- [Can I use the visual query builder in STUDIO to build the complex queries with unions and subqueries?](#)
- [Can I save a created query for future use?](#)
- [Can I run a query from the command line?](#)
- [Can I save a query result into a CSV or an XLS file?](#)

Reports management

- [How can I create a report?](#)
- [How can I create a report based on a query?](#)
- [Can I save my report as HTML, Excel or Word?](#)

Data manipulation

- [What is the difference between the Export/Import functions in SQL Studio and stand-alone SQL Manager?](#)
- [I need to import data from a CSV file. How can I do it with the help of SQL Studio?](#)
- [How can I change the default directory where exported data will be saved?](#)

- [For which purpose are the console versions of the utilities for manipulating data included in SQL Studio?](#)
- [I have a database in MS Access. I want to migrate to the remote Oracle database. How can I do it with the help of SQL Studio?](#)
- [I have a ODBC data source. Can I migrate from it to Oracle?](#)
- [From which databases can I migrate to my database server with the help of SQL Studio?](#)
- [I am working on an application. The database structure is already created. How can SQL Studio help me to fill the database with test data?](#)
- [My database contains many relations between tables and other constraints. Will SQL Studio consider them while generating test data?](#)

Data analysis

- [I need to find the differences in the metadata of two databases and then synchronize them. How can SQL Studio help me with this task?](#)
- [I need to find the differences in the data between the existing database and its yesterday's backup. What should I do?](#)
- [Can I start synchronization of metadata or data from the command line?](#)
- [Can SQL Studio synchronize my database with a database of another DBMS?](#)

Backup/Restore

- [What Backup capabilities does SQL Studio provide?](#)
- [Is it possible to restore the backup on one server while it was created on another one?](#)
- [What is the difference between Extract and Backup functions in SQL Studio?](#)

Templates management

- [What are the templates used, for example, in export/import? What are they for?](#)
- [Where are SQL Studio templates located?](#)
- [If I delete a template from the list in SQL Studio, will it be deleted from the hard disk?](#)
- [How can I create a new template for Import?](#)

Scheduler

- [I need to perform certain operations on my database \(export from one database, import of those data to another one, backup of both databases\) outside business hours \(at night\). Does SQL Studio provide any solution for this?](#)
- [How do I configure a task so that I receive an e-mail notification at the defined address in case of the task failure?](#)
- [Can the task process be changed depending on the results of the task steps?](#)
- [How can I view the information on the performed tasks?](#)
- [What will happen if during a task execution the running application cannot terminate \(critical error, does not respond\)? Will the task execution stop?](#)
- [What do I need to work with Task Scheduler?](#)
- [What will happen if, after running the computer, Task Scheduler finds the tasks that should have been executed in the past, but it has not happened?](#)

Logs management

- [It is important for me to get the information from log files of applications executed by the Task Scheduler? Does SQL Studio save these log files?](#)
- [The external application that is executed in one of the tasks does not have a log file, but only a screen log. How can I save the data from the screen?](#)
- [How long are log files stored in SQL Studio?](#)

Question/answer list

Product questions

Q: What is EMS SQL Management Studio?

A: EMS SQL Management Studio is a complete solution for database administration and development. SQL Studio is an integrated suite of powerful database management tools united in one easy-to-use work environment. Developers will appreciate its ability to create/edit/drop any database objects and will find metadata and data comparison, data export/import and test data generation tools extremely helpful. Database migration, backup and restore tools will be of great help to DBAs. The [Scheduler](#) will automate a sizeable part of DBA's work.

Q: SQL Studio embraces a variety of capabilities, but will I need them all? Is there a simpler product?

A: This question naturally comes if you are new to database administration and development. It might not be immediately obvious why you would need so many different tools. We would like to point out that your experience will build up day in and day out, you will face new, more complicated tasks and you will need more tools to solve them. SQL Studio embraces ALL must-have tools for DBAs and developers. And it will be in line with your growing expertise! Besides, once you familiarize yourself with SQL Studio tools, you will be able to find the simplest, most suitable and reliable solutions to your tasks! We do realize that our product is used not only by experts, that is why we included plenty of Wizards that will make the job easy and enjoyable even for a newbie. The Studio interface is designed so that the component tools are called only when needed, not to hinder your work. Our experience shows that the majority of our customers get used to our products really fast, and we have never received any downgrade requests.

Q: What do I need to start working with SQL Studio?

A: In order to start working with SQL Studio, you need to download the installation package from the [download page](#) available at our site. Then run the installation file on a MS Windows workstation (see [System requirements](#) for details). When the installation is finished, the program is ready to be used in the trial mode. You can evaluate the trial version for 30 days. This is the time for you to make a purchasing decision. You can purchase the Studio [here](#). After the payment is complete, you will receive your registration information via e-mail (see [How to register SQL Studio](#) for details)

Q: Many utilities that are included in SQL Studio are also offered as stand-alone products. What are the advantages of purchasing them within the Studio?

A: Indeed, in order to perform some simple task, you can purchase a separate EMS utility or a few of them. Yet, if you purchase these utilities within the Studio, you receive additional functionalities. First of all, you will be able to launch the Studio components from [Task Scheduler](#). That is, you can set the order to run the tools in, set the parameters to be used, the time and/or time intervals for the task to be performed and go to play a bowling game :) Task Scheduler will fulfill all your tasks, save the logs for the performed operations and will notify you by e-mail about the successful/ unsuccessful task completion. Task Scheduler will help you to really automate the majority of your DB service tasks. Secondly, you will be able to store all registered Databases in one repository. Thus, you will need to register your data source once and will be able to use it in all Studio tools. This will save your time and reduce an

error chance to the minimum. The third equally important benefit is the pricing. When purchasing the tools within SQL Studio, you pay a lot less, compared to purchasing them as separate products. You will receive up to 40% off the original price!

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DB registration and connection

Q: Can I work with several databases simultaneously?

A: Yes, SQL Studio allows you to work with an unlimited number of databases at the same time. You can also operate any number of databases via SSH tunneling. Once the database is registered at the database source repository correctly, you are ready to use it.

Q: I use Windows OS, but my remote Oracle server is running on Linux OS. Will I be able to use SQL Studio to work with this server?

A: Yes, that is possible. It does not matter what OS the database server is running under, SQL Studio works only in the Windows environment (see [System requirements](#) for details).

Q: Why does SQL Studio use a single registered database repository?

A: The single registered database repository allows one database to be accessed with all SQL Studio tools. If you purchased our product suites (bundles) previously, you had to enter the database information in each tool you used. That eventually led to massive time wasting and typing errors. Now the problem is solved in the Studio with the help of the single registered database repository.

Q: What is SSH tunneling?

A: SSH (Secure Shell Host) protocol is used to heighten the computer security when working with Unix systems in Internet. SSH uses several encryption algorithms of different reliability. The spread of SSH is also concerned with the fact that a number of Linux-like OS's (for example, FreeBSD) include SSH server in their standard integration. To get more information about this issue, please, visit <https://www.openssh.org>.

SSH tunneling feature of SQL Manager is a means for secure connection to Oracle servers when working over insecure connection channels. You can also use SSH tunnel to get access to the remote Oracle servers, when the default port is closed for external connections due to some reasons. Connection over SSH tunnel works in the following way. First, a connection is established, and authentication between SSH client built in SQL Manager and the remote Oracle server is performed. Then all in- and outgoing information between the program and Oracle server is transmitted through SSH server with the help of the communication port (usually it is 22), and SSH server transfers this information directly to Oracle server.

To register a database to which one connects through SSH tunnel, you should set the following parameters in Register Database Wizard of SQL Manager for Oracle:

'Host' is a host where Oracle server is located from the point of view of SSH server. If SSH and Oracleserver are on the same machine, it is equal to SSH Host, or may be 'localhost'.

'Port' is a port of Oracle server on the remote host.

'User name' is a Oracle user name.

'Password' is the password of the Oracle user. Please note that Oracle host name should be set relatively to the SSH server in this case. For example, if both Oracle and SSH server are located on the same computer, you should specify 'localhost' as Host name instead of the server's external host name or IP address.

Check "Use tunneling" and "SSH tunneling".

'SSH host name' is the host where SSH server is activated.

'SSH port' is the port where SSH server is activated.

'SSH user name' is a user on the Linux/Windows machine (it is a Linux/Windows user, not a user of Oracle server)

'SSH password' is the Linux/Windows user password.

If necessary, check 'Use Private Key for authentication'.

Q: I work behind a firewall (router). Can I use SQL Studio to manage a remote Oracle server?

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

Q: I can't configure the connection to Oracle server by SSH. Which values do I need to input on the SSH page of the Database Registration Info dialog?

A: To setup SSH connection correctly, input the following values into the corresponding fields within the SSH Tunneling section of the Database Registration Info dialog of SQL Manager for Oracle:

'SSH host name' is the host where SSH server is activated.

'SSH port' is the port where SSH server is activated.

'SSH user name' is a user on the Linux/Windows machine (it is a Linux/Windows user, not a user of Oracle server)

'SSH password' is the Linux/Windows user password.

If necessary, check 'Use Private Key for authentication'.

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Objects manipulation

Q: Which database objects will be accessible through SQL Studio?

A: You can work with any objects in Oracle databases such as tables, fields, indices, views, stored procedures, functions, triggers, etc.

Q: I have over a million records in the table, yet the data grid displays only 1,000 of them. What is the problem?

A: Please select the "Select all records from a table" option within the Grid section of Environment Options dialog in SQL Manager for Oracle. Note that fetching all records from a table may require considerable time.

Q: How can I speed up my work with large tables?

A: For your convenience and to speed up your work, the Data Grid allows customizing a number of data display parameters. Here are the most important of them (accessible through the Grid | Data Options section of the Environment Options dialog):

- *Limit options in table and view editors.* The 'Select all records of a table' option will enable you to see all table records without extra references to the server, yet in case of large tables or low speed connection channel the data may be fetched with huge delays and the incoming traffic might grow considerably. This mode is recommended when working with local databases or in a private network. The 'Select only' mode restricts the maximum number of records returned after the query. A man cannot process a massive amount of information at once. Hence, we came up with this mode. This mode speeds up table data viewing considerably, prevents hanging and connection timeout. It is recommended to work with large tables, in case of low speed

connection channels and when the traffic volume is of importance. This is the default mode. When in this mode, enabling the 'Use SQL sorting in data view' and 'Use SQL filter in data view' options comes really helpful.

- *Default Grid Mode.* This option defines whether the requested rows will be loaded in the Grid all at once ('Load all rows'), or in parts ('Load visible rows') as the user scrolls down table data. The first mode increases the query opening time, but speeds up scrolling. In the second mode the query opens very fast, but there might be delays when navigating the grid.

- *Use SQL sorting in data view.* With this option enabled, when the user sets data sorting, a new request is sent to the server, and the result is shown anew in the Grid. Enabling this option is very helpful with the 'Select only' mode enabled, but it increases the traffic. When this option is disabled, sorting is made on the client computer without any references to the server but only loaded data are sorted. That is, if you set 'Select only 1,000 records', then only these records will be sorted.

- *Use SQL filter in data view.* With this option enabled, the data will be sorted on the server to which a new request is sent, and the result will be shown anew in the Grid. Enabling this option is also helpful when the 'Select only' mode is on, but it increases the traffic. When this option is disabled, the filtering is made on the client computer without any references to the server but only loaded data are filtered. That is, if you set 'Select only 1,000 records', then only these records will be filtered.

We recommend that you set the following option values to achieve maximum efficiency when working with large tables:

- *Select only* – ON
- *Load visible rows* – ON
- *Use SQL sorting in data view* – ON
- *Use SQL filter in data view* – ON

Q: *Which operations can I perform over database objects?*

A: You can create new objects, drop and edit the existing ones. You can also copy the objects from/to databases located on one or different hosts.

Q: *When creating a table like 'TestTable', it will get stored as 'TESTTABLE'. How can I get objects stored as I create them using SQL Manager?*

A: Please try to switch off the "Convert created objects' names to upper case" option within the Object Editors section of the Environment Options dialog.

Q: *How can I customize data formats in a grid?*

A: You can customize all display formats: integer, float, date, time and datetime using the Color & Formats page of the Environment Options dialog in SQL Manager for Oracle.

Q: *I can't modify DDL. Why?*

A: The DDL tabs of the SQL Studio editors are read-only. To modify an object, you can copy the text to the clipboard and modify it using SQL Editor or SQL Script.

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Query

Q: *I'm new to SQL, and I can hardly compose the SQL statements by hand. Does SQL Studio have a visual query builder like in MS Access?*

A: Yes, SQL Studio offers a powerful Query Builder that allows newbies to build complex queries visually, and drastically saves time for advanced users. All you need to do is to specify the tables that will be used in the query, their relations and the query conditions for the data you want to get. Visual Query Builder will generate the text of

the query for you. You will only need to run it. You can see the result of your query and make corrections if necessary. The changes can be made from the visual builder or from the text editor. As changes made in visual query builder, the text editor will display them too and vice versa.

Q: Can I use the visual query builder in STUDIO to build the complex queries with unions and subqueries?

A: Yes, visual Query Builder can build complex queries including UNION operator and subqueries.

Q: Can I save a created query for future use?

A: Yes, of course. SQL Studio can save the needed query in the following ways:

1. ALL executed queries are automatically saved in the History. You can view the History and execute or edit any query you need.
2. You can add the frequently used queries to the list of Favorite queries.
3. You can save any query as an SQL-script into a file on your hard drive and load it when needed, or execute it with a command line SQL script tool.
4. You can save your query as a chart. In this case after the query is loaded into SQL Studio, the the chart will be displayed the way it has been created. SQL Studio allows you to save the query chart as a bitmap image.

Q: Can I run a query from the command line?

A: Yes, SQL Studio offers [SQL Script](#) tool for this purpose. It can also run a script from a file saved on your hard drive. This feature allows you to create queries and schedule their execution using [Task Scheduler](#). Task Scheduler allows you to run your query when you need it and notifies you when done.

Q: Can I save a query result into a CSV or an XLS file?

A: Yes, SQL Studio has a powerful tool for exporting your data (including the query results). You can export the result dataset to MS Access, MS Word, CVS, XLS, HTML, RTF, DBF, XML and other [formats](#). To ease the exporting procedure, Export Data tools are implemented.

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Reports management

Q: How can I create a report?

A: To create a report, you can use the Create Report Wizard or the Report Designer tool in SQL Manager for Oracle. To create a report based on a query, see Q. [How can I create a report based on a query?](#)

Q: How can I create a report based on a query?

A: To create a report based on a query, you can use the Create Report Wizard in SQL Manager for Oracle. You need to choose Master Data band on the second step of the wizard, double-click on it or click the Edit button and specify the query for your report. After that you need to set options in other steps of the wizard and press Finish.

Q: Can I save my report as HTML, Excel or Word?

A: Yes, open the report by double-clicking on it in the DB Explorer of SQL Manager and select the 'Save report as' item in the Navigation bar or toolbar, and specify the format you want to save to in the "Save as type" field.

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Data manipulation

Q: What is the difference between the Export/Import functions in SQL Studio and stand-alone SQL Manager?

A: The Data Export/Import tools of SQL Studio include some additional features which are not available in SQL Manager for Oracle, such as:

- export/import data from/to several tables simultaneously;
- export/import data from/to tables selected from different databases on one host;
- a command-line utility to export/import data using the configuration file with all the export/import options;
- a single registered database repository.

Q: I need to import data from a CSV file. How can I do it with the help of SQL Studio?

A: You can use Import Data Wizard for this purpose. It will help you to set all the necessary import parameters. Moreover, you can save these settings as a template and use them in the future. Besides, you can also import from MS Excel, MS Access, DBF, XML, TXT and other [formats](#).

Q: How can I change the default directory where exported data will be saved?

A: Follow the steps below to change the default directory:

1. Right-click the database alias in DB Explorer and select the 'Database Registration Info...' context menu item (you can also find this item in the 'Database' main menu) to open the Database Registration Info dialog.
2. Proceed to the Directories section within the dialog.
3. Set the 'Default directory for Export Data'.

Q: For which purpose are the console versions of the utilities for manipulating data included in SQL Studio?

A: The main function of the console versions of SQL Studio tools is execution of some service operations with the database without a user involved. All console tools support [configuration files](#) (templates) that are created in the corresponding GUI versions. The template file contains all information necessary for working with the console version. With the help of the console version and a template file you can create a task in the Task Planner and set the necessary time and/or period for execution. Of course, you can use the console versions of SQL Studio tools in your own automatic applications.

Q: I have a database in MS Access. I want to migrate to the remote Oracle database. How can I do it with the help of SQL Studio?

A: You can use Data Pump for Oracle for this purpose. To launch Data Pump from SQL Studio, select the [Data Manipulation](#) tab and click on Data Pump for Oracle, or select Start -> Programs -> EMS -> SQL Studio for Oracle -> Data Pump for Oracle. We recommend that you use Microsoft Jet 4.0 OLE DB Provider to connect to your MS Access database.

Q: I have a ODBC data source. Can I migrate from it to Oracle?

A: ODBC (Open Database Connectivity) is an open standard interface to access databases developed by Microsoft. Most database management systems have their own ODBC driver or the one produced by other software developers.

To migrate from a ODBC data source, you need to use Data Pump for Oracle. To launch Data Pump from SQL Studio, select the [Data Manipulation](#) tab and click on Data Pump for Oracle, or select Start -> Programs -> EMS -> SQL Studio for Oracle -> Data Pump

for Oracle. When working with the utility, you should use OLE DB Provider for ODBC Drivers to connect to your ODBC data source.

Q: From which databases can I migrate to my database server with the help of SQL Studio?

A: With the help of Data Pump for Oracle you can migrate from any databases to which you can connect using OLE DB Provider (for example SQL Server, Oracle, MS Access, DB2, etc.) and ODBC Driver (MySQL, PostgreSQL, InterBase, Firebird, dBase files, etc.)

Q: I am working on an application. The database structure is already created. How can SQL Studio help me to fill the database with test data?

A: SQL Studio has a powerful instrument for [generating test data](#) - Data Generator for Oracle. The wizard will help you to set such parameters as the amount of records to be generated, range value for each field, the quantity of lines with NULL value and others. Data Generator performs various algorithms including random or increment data generation as well as the one according to the given list of values and many others. And of course, it is possible to save all these settings as a [template](#) for future use.

Q: My database contains many relations between tables and other constraints. Will SQL Studio consider them while generating test data?

A: Yes, of course. When generating test data, the Data Generator module of SQL Studio takes into consideration all relations and restrictions that already exist in your database.

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Data analysis

Q: I need to find the differences in the metadata of two databases and then synchronize them. How can SQL Studio help me with this task?

A: There is a tool specially designed for this purpose - DB Comparer for Oracle available in the [Data Analysis](#) group of SQL Studio. Its interface is simple and user-friendly, but the results of its work are quite impressive! You only need to choose two databases to compare metadata and set some additional parameters, such as database objects to compare, direction of synchronization and others. The result of DB Comparer's work will be a list of differences in the metadata of these two databases and a script, with the help of which you can synchronize the databases. Besides, you can synchronize each difference separately, using only the needed changes in the required order. Do you remember how much time you spent searching for the single field added to the table two months ago? :)

Q: I need to find the differences in the data between the existing database and its yesterday's backup. What should I do?

A: There is a tool specially designed for this purpose - Data Comparer for Oracle available in the [Data Analysis](#) group of SQL Studio. You should specify the existing working database as a source database. Then specify the database of the yesterday's backup as a target database (you should first restore it on any available Oracle server). Now choose data in which tables you would like to compare and follow the other steps of the wizard. Mind, that Data Comparer allows comparing data in tables with non-identical metadata. After the comparison is complete you will see the list of differences between your databases and will be asked if you would like to synchronize data from source to target or from target to source. You can save SQL script that performs synchronization in a separate file and run it later with the help of [SQL Script](#) tool (probably using the Task Planer).

Q: Can I start synchronization of metadata or data from the command line?

A: Yes, for this purpose you can use the console versions of our utilities - DB Comparer Console Application and Data Comparer Console Application. All console tools support [configuration files](#) (templates) that are created in GUI versions of the programs. The template file contains all the information necessary for working with the console tool. With the help of the console version and the template file you can easily perform synchronization from a command line without setting a great number of parameters manually.

Q: Can SQL Studio synchronize my database with a database of another DBMS?

A: This feature is not supported by our utilities as they allow synchronizing data and metadata only between one database engine, that is between Oracle and Oracle.

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Backup/Restore

Q: What Backup capabilities does SQL Studio provide?

A: SQL Studio offers several methods of creating database backups.

- Using Backup Database [service](#)

It can create a full or differential backup of a database. This method is very fast and reliable. While a backup is created, the users can continue their work with the database – the data integrity is ensured.

To call this service, open the Database Management tab in SQL Studio and select the Backup Database item of the [Services](#) group.

To call this service from SQL Manager for Oracle, use the Services | Backup Database... main menu item.

In order to restore the databases from the backup file created with this method, use the Restore Database service. This service enables you to restore your database to the file of the existing database or create a new database on the basis of the existing backup copy.

To call this service, open the Database Management tab in SQL Studio and select the Restore Database item of the [Services](#) group.

- Using DB Extract for Oracle or Extract Database Wizard of SQL Manager for Oracle

Both tools create backup copies of the whole database or of user-specified objects in the form of SQL script. The generated script contains Data Definition Statements and Insert Data commands. The main advantages of this method are the complete or partial backup of the database structure and data and flexible customization possibility. However, with this method creating back up copies of large databases is time and traffic consuming.

To call DB Extract, open the Data Analysis tab in SQL Studio and select DB Extract for Oracle.

To call Extract Database Wizard, open SQL Manager for Oracle and select the Tools | Extract Database main menu item.

In order to restore the database from the script, you need to run this script on the Oracle server. Please use [SQL Script](#) available in SQL Studio or SQL Script tool of SQL Manager for Oracle.

- Using Data Export for Oracle

This method can be used to back up data from any tables. Please use it if you need to save only data but not the database structure. We would recommend to use CSV format to back up data.

To call Data Export, open the Data Manipulation tab in SQL Studio and select Data Export for Oracle.

To call Data Export Wizard from SQL Manager for Oracle, open your table in Table Editor, proceed to the Data tab and select 'Export Data'.

In order to restore data from the file created with this method, you can use Data Import for Oracle or Data Import Wizard of SQL Manager for Oracle.

To learn about the differences between Data Import for Oracle and Data Import Wizard of SQL Manager for Oracle, see Q. [What is the difference between...](#)

Q: *Is it possible to restore the backup on one server while it was created on another one?*

A: Please observe the following cases:

- You can restore a backup file created with Backup Database service on any server that has the same or higher version than the one where this backup was created.
- You can restore a backup file created by DB Extract for Oracle or with the help of Extract Database Wizard of SQL Manager for Oracle on any server that has the same version where this backup was created.
- You can restore the data backed up with the help of Data Export for Oracle or Export Data Wizard of SQL Manager for Oracle to a table on any version of Oracle.

Q: *What is the difference between Extract and Backup functions in SQL Studio?*

A: Backup Database [service](#) creates backups of all objects of the selected database, as well as table data, according to the defined path that can be only a local directory on the server.

DB Extract for Oracle or Extract Database Wizard of SQL Manager for Oracle creates backups of databases or user-defined objects in a form of SQL script. Thus, Backup Database service uses Oracle capabilities to create database backups, it is highly reliable, but it cannot place backup files in any client directory. It is recommended to use this method for backing up a whole database. The main advantages of creating backups with the help of DB Extract for Oracle are that you can save structure and data of some specific database objects or schemes and that backup copy is created on the client side. The weak point of this method is much time and traffic that are required for creating backups of large databases.

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Templates management

Q: *What are the templates used, for example, in export/import? What are they for?*

A: [Templates](#) in SQL Studio are intended for storage of the parameters required for running SQL Studio tools. Using the templates you will be able to repeatedly perform one and the same operation without a need to enter 10-20 wizard parameters each time. The parameters stored in a template can be easily modified, or you can create a new template based on the existing one.

Q: *Where are SQL Studio templates located?*

A: A [template](#) is a file that can store necessary parameters in certain format. Template files can be located anywhere on your PC. To simplify the task of template storage and search, SQL Studio provides Template Manager. The Manager allows you to register the necessary templates in SQL Studio and not to worry anymore about the place where you saved them to. When you create a new template in SQL Studio the Template Manager automatically remembers its location on the disk. All the registered templates are grouped by the tools they are intended for and will be at your disposal any time. To run a tool with the selected template, you will just need to double-click the template.

Q: *If I delete a template from the list in SQL Studio, will it be deleted from the hard disk?*

A: Template Manager allows you to perform both operations: you can either delete a template from the registered template list only, or delete it also from the hard disk.

Q: *How can I create a new template for Import?*

A: To create a template for the [Import](#) tool, you should run the Import tool (Run | Data Import for Oracle). Then you will need to fill in all the necessary import parameters using the Next button. At the last wizard step you should define the name and location of the newly created template using the Tools | Save Template menu item. See [Using templates](#) for more information.

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Scheduler

Q: *I need to perform certain operations on my database (export from one database, import of those data to another one, backup of both databases) outside business hours (at night). Does SQL Studio provide any solution for this?*

A: Yes, sure. The Studio [Scheduler](#) is intended for such situations. The Scheduler can run for execution of the previously created [tasks](#). You can set the time and periodicity for the task execution. Each [Task](#) can include an unlimited number of [Steps](#) (elementary operations). A Task must include at least one step. In your case you should perform the following:

1. Create new Task
2. Create steps in the Task (Export, Import, etc.). When creating these steps, you will need to indicate in what template files the necessary tool parameters are saved.
3. Create a Scheduled Task in the Scheduler that will use the Task you have just created (1).

Q: *How do I configure a task so that I receive an e-mail notification at the defined address in case of the task failure?*

A: In the Task editor there is a tab called Alerts. By switching to this Tab you will be able to define the most suitable [notification](#) method to be informed of successful task execution and/or of the task failure. The current version of SQL Studio supports the following notification types: Net Send, System App Log (WIN), e-mail.

Q: *Can the task process be changed depending on the results of the task steps?*

A: Yes. When creating/editing each [Task Step](#), you can define which step should go next. Moreover, for each of the three processed events (successful step termination, erroneous step termination, step termination by time-out) you can indicate a separate variant of the next Task operations.

Q: *How can I view the information on the performed tasks?*

A: All the information on the Task execution is fixed in the [log](#). In the log you can find not only the information on the Task, but also on the Steps it includes. Moreover, you can view the log file of the attachment executed at a certain step. It is very convenient while analyzing the reasons of the Task/Step failure. The powerful log filters will allow you to display only selected records.

Q: *What will happen if during a task execution the running application cannot terminate (critical error, does not respond)? Will the task execution stop?*

A: To resolve such conflicts, in every Task Step you can define its time-out. If a Step is being executed longer than it is defined in the time-out, the Step will terminate with the "by time-out" event, and the Task execution goes on according to the algorithm

you set.

Q: *What do I need to work with Task Scheduler?*

A: To work with [Task Scheduler](#), you need to run the [Studio Agent](#) (a shortcut in the task bar). Also, your computer should be running during all the time while the tasks will be run.

Q: *What will happen if, after running the computer, Task Scheduler finds the tasks that should have been executed in the past, but it has not happened?*

A: Those tasks will not be performed.

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Logs management

Q: *It is important for me to get the information from log files of applications executed by the Task Scheduler? Does SQL Studio save these log files?*

A: Yes, SQL Studio has a convenient tool to work with log files. While creating a [Step](#) in the [Task](#), you can specify the location of the [log](#) file of the application to be executed. When choosing the tools from SQL Studio, the location of the log file is filled automatically. Log files of the performed steps are saved in the internal SQL Studio database and are available within the Tasks | Logs menu.

Q: *The external application that is executed in one of the tasks does not have a log file, but only a screen log. How can I save the data from the screen?*

A: If a utility does not have a log file, and the log information is only displayed on the screen (in text mode), then SQL Studio can save these data as a log. To do so, please check the "Save screen to log" box when creating a task.

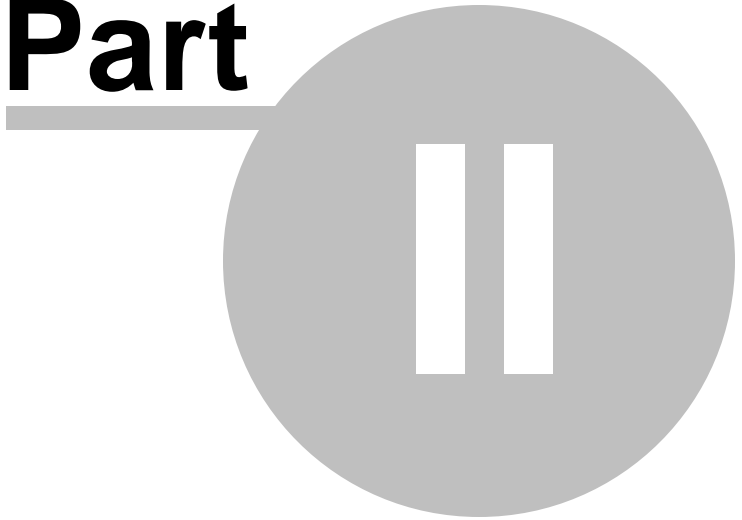
Q: *How long are log files stored in SQL Studio?*

A: [Log files](#) are stored in SQL Studio during an unlimited period. You can delete the unnecessary log files manually in SQL Studio (within the Logs tab).

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

Part



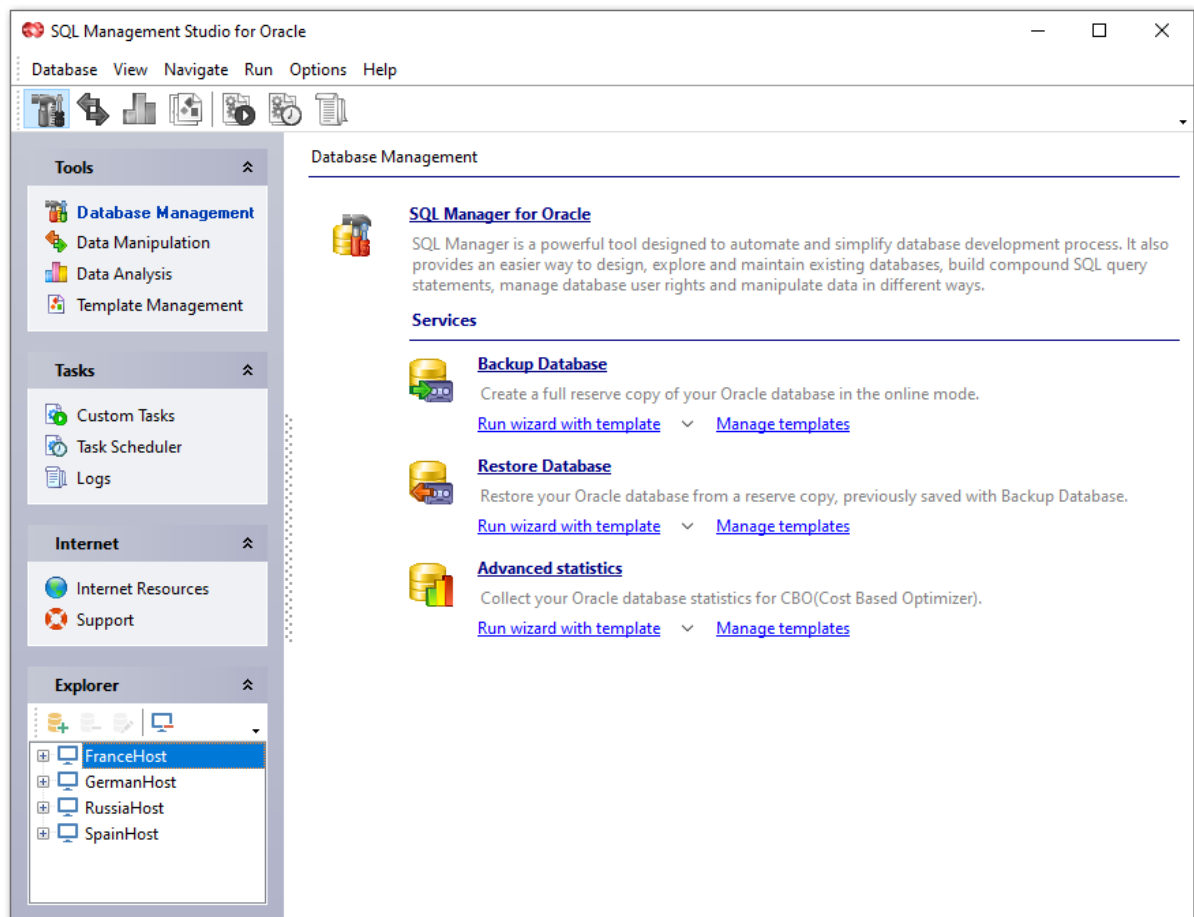
2 Getting Started

SQL Management Studio for Oracle enables you to contribute to efficient Oracle administration and development easily and quickly using a variety of available tools.

The following chapters of this document are intended to inform you about the tools implemented in SQL Management Studio for Oracle. Please see the instructions below to learn how to perform various operations in the most efficient way.

- [Using Studio Agent](#)
- [Selecting application language](#)
- [First time started](#)
- [Working with main menu](#)
- [Working with toolbars](#)
- [Using Desktop Panel](#)
- [Using Navigation bar](#)
- [Using DB Explorer](#)

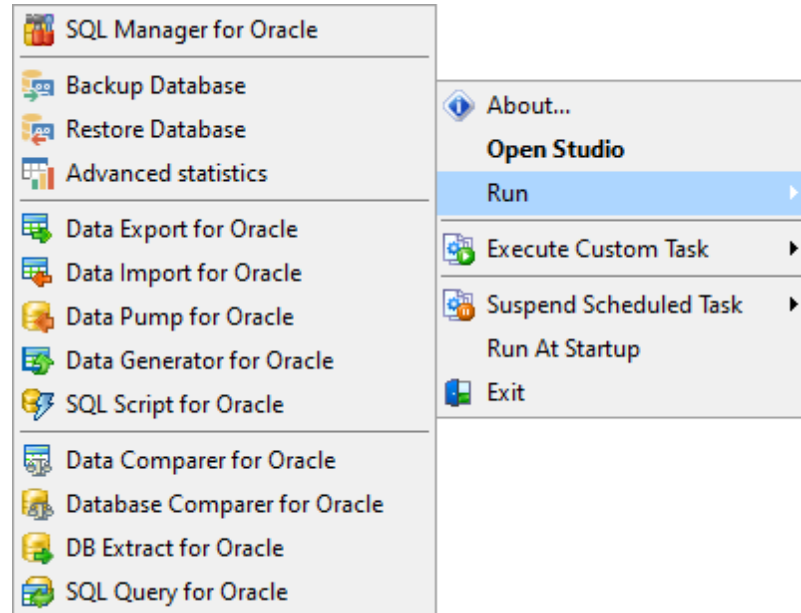
Enjoy your work with SQL Management Studio for Oracle!



See also:[Database Management & Manipulation](#)[Scheduling & Performing tasks](#)[Using On-line Resources](#)[Setting program options](#)

2.1 Using Studio Agent

SQL Studio Agent is a resident program located in the system tray area which allows you to perform basic SQL Studio operations.



To start SQL Management Studio for Oracle, you can simply double-click the Agent's icon in the system tray.

Right-click the Agent's icon in the system tray to call the menu allowing you to:

- open the About window to get information about the program version and [registration](#) status;
- run SQL Studio application or any of its components;
- execute a custom task;
- suspend a scheduled Task;
- set [agent options](#).

See also:

[Selecting application language](#)

[First time started](#)

[Working with main menu](#)

[Working with toolbars](#)

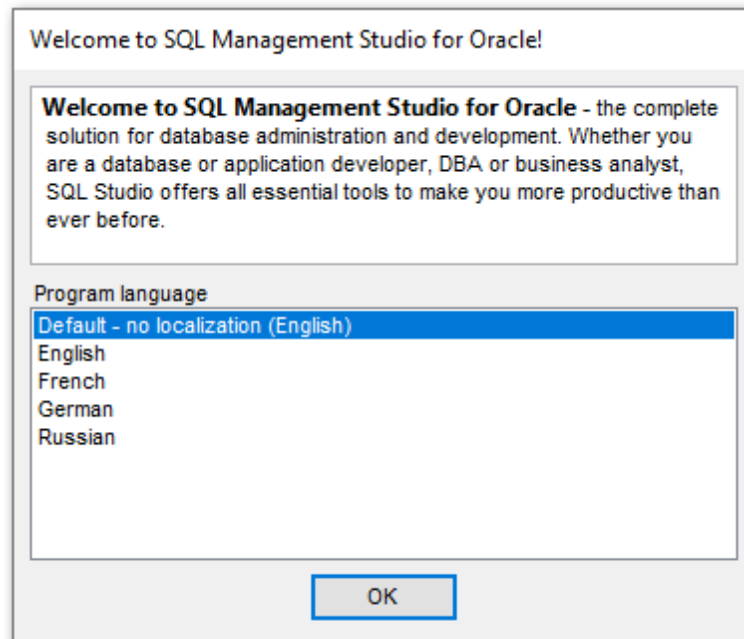
[Using Desktop Panel](#)

[Using Navigation bar](#)

[Using DB Explorer](#)

2.2 Selecting application language

Before you start SQL Studio for the first time, you have to choose the interface language. You can change the program language any time using the [Localization](#) tab of the **Options** dialog (**Options | Environment Options**).



Program Language

Select the interface language from the list of available languages.

See also:

[Using Studio Agent](#)

[First time started](#)

[Working with main menu](#)

[Working with toolbars](#)

[Using Desktop Panel](#)

[Using Navigation bar](#)

[Using DB Explorer](#)

2.3 First time started

This is how SQL Management Studio for Oracle looks when you start it for the first time. Use the [Desktop panel](#) to perform any database management task, or start a utility.





The [main menu](#) allows you to perform various **Database** operations, activate/deactivate [toolbars](#), [Navigation bar](#) panes and tool descriptions within the **View** menu, access SQL Studio tools in groups using items of the **Navigate** menu, run any Studio tool using the **Run** menu, [customize](#) the application using the **Options** menu, access [Registration](#) information and product documentation using the corresponding items available within the **Help** menu.

The [Navigation bar](#) on the left allows you to switch between activities in the following groups:

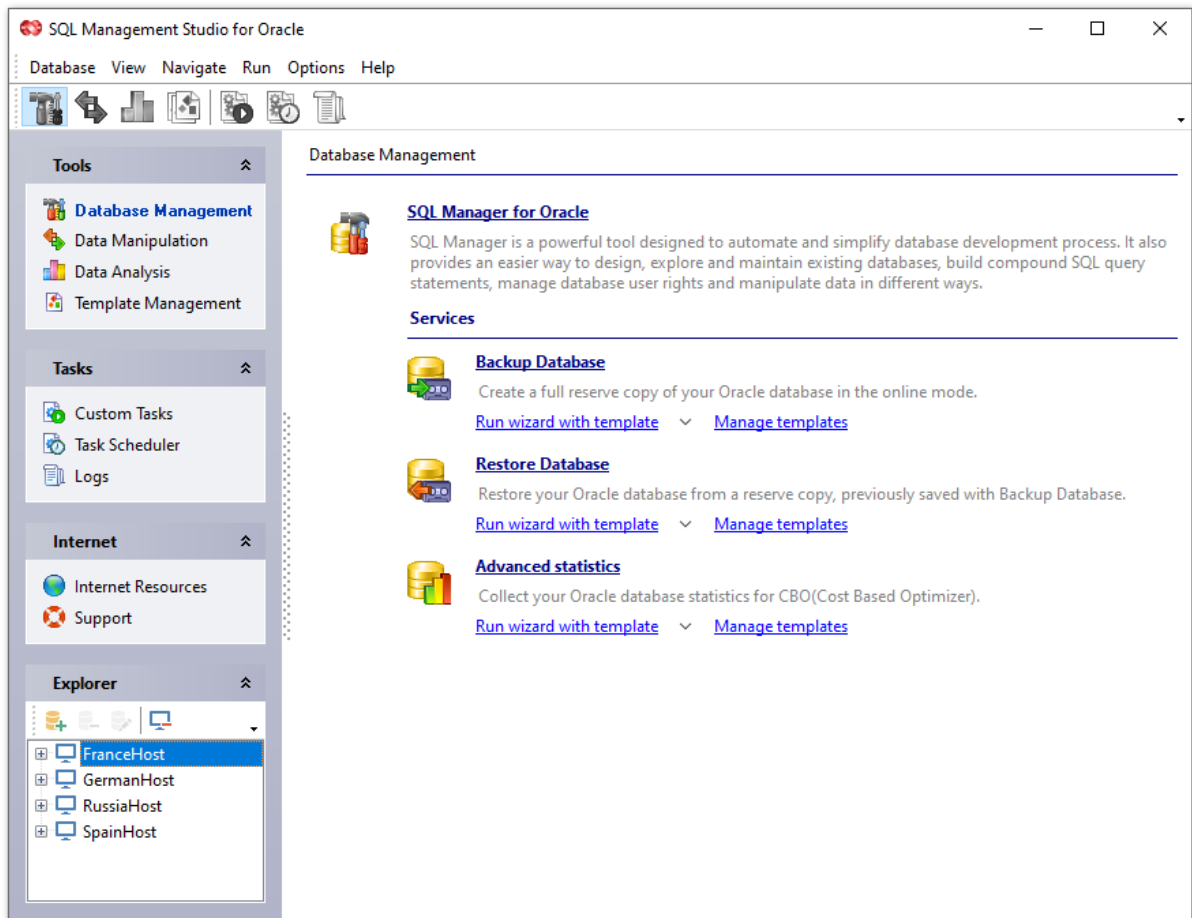
- Tools*
- Tasks*
- Internet*

The [main toolbar](#) duplicates the items of the **Navigation bar** and is implemented for quick access to SQL Studio activities.

To start working with your Oracle, you should first register the database using the **Register Database Wizard**.

By default the corresponding  **Unregister Host**,  **Register** /  **Unregister Database**,  **Database Registration Info** buttons are available on the toolbar of DB Explorer and within the **Database** menu.

[DB Explorer](#) which is located below the **Navigation bar** displays all registered hosts and databases; you can add and remove items to/from the Explorer tree, browse registration information on databases and start Oracle services for selected databases. You can also use this database registration information in utilities integrated into SQL Management Studio for Oracle.



After specifying your database connection settings, you can connect to your database and explore [Database Management & Manipulation](#), [Scheduling & Performing tasks](#), and other tools within SQL Studio.

See also:

[Using Studio Agent](#)

[Selecting application language](#)

[Working with main menu](#)

[Working with toolbars](#)

[Using Desktop Panel](#)

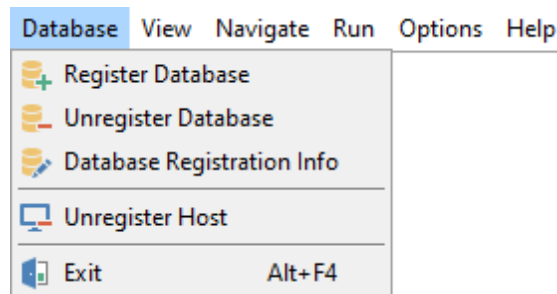
[Using Navigation bar](#)

[Using DB Explorer](#)

2.4 Working with main menu

The main menu of SQL Management Studio for Oracle allows you to perform common operations pertaining to database registration, switch between Oracle management and scheduling activities, start integrated tools, [customize](#) SQL Studio, get product help and misc.

The [main menu](#) allows you to perform various **Database** operations, activate/deactivate [toolbars](#), [Navigation bar](#) panes and tool descriptions within the **View** menu, access SQL Studio tools in groups using items of the **Navigate** menu, run any Studio tool using the **Run** menu, [customize](#) the application using the **Options** menu, access [Registration](#) information and product documentation using the corresponding items available within the **Help** menu.



Database

Register Database

Starts **Register Database Wizard** which guides you through the entire process of Oracle database registration.

Unregister Database

Unregisters the selected database and removes its alias from the [DB Explorer](#) tree.

Database Registration Info

Opens the **Database Registration Info** dialog.

Unregister Host

Unregisters the selected host (including all its databases) and removes its alias from the [DB Explorer](#) tree.

Exit

Exits SQL Management Studio for Oracle.

View

Allows you to toggle [toolbars](#) (*main toolbar, DB Explorer toolbar*), panes of the [Navigation bar](#) (*Tools, Tasks, Internet, Explorer*) and tool descriptions.

Navigate

Use this menu to switch quickly between the activities concerned with Oracle and data management, [tasks](#), [scheduling](#), [logs](#) and [online resources](#). These items are duplicated in the [Navigation bar](#) and the [main toolbar](#).

Run

This menu allows you to launch any of SQL Studio integrant tools.

Options

Allows you to personalize SQL Studio [options](#), set [outgoing mail service](#) settings and select [program language](#).

Help

Use this menu to browse SQL Studio help system, open user manual, visit the official SQL Studio Home Page, [register](#) the program and check for updates.

See also:

[Using Studio Agent](#)

[Selecting application language](#)

[First time started](#)

[Working with toolbars](#)

[Using Desktop Panel](#)

[Using Navigation bar](#)





[Using DB Explorer](#)




2.5 Working with toolbars

The **Main toolbar** can be found at the top of [Desktop Panel](#). By selecting its corresponding bars, you can switch between activities related to Oracle and data management.







By default the main toolbar items represent the following Oracle and data management activities:

-  Database management
-  Data Manipulation
-  Data Analysis
-  Template Management

-  Custom Tasks
-  Task Scheduler
-  Logs

The **toolbar of DB Explorer** contains items for the Oracle database registration repository management:



-  Unregister Host
-  Register Database
-  Unregister Database
-  Database Registration Info

If necessary, you can be [customize](#) the program toolbars according to your preferences.

See also:

- [Using Studio Agent](#)
- [Selecting application language](#)
- [First time started](#)
- [Working with main menu](#)
- [Using Desktop Panel](#)
- [Using Navigation bar](#)
- [Using DB Explorer](#)

2.6 Using Desktop Panel

The **Desktop Panel** is the main working area of SQL Management Studio for Oracle. Its content changes dynamically according to the current selection in the [Navigation bar](#) or on the [main toolbar](#).

Database Management



[SQL Manager for Oracle](#)

SQL Manager is a powerful tool designed to automate and simplify database development process. It also provides an easier way to design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Services



[Backup Database](#)

Create a full reserve copy of your Oracle database in the online mode.

[Run wizard with template](#) ▾ [Manage templates](#)



[Restore Database](#)

Restore your Oracle database from a reserve copy, previously saved with Backup Database.

[Run wizard with template](#) ▾ [Manage templates](#)




[Advanced statistics](#)

Collect your Oracle database statistics for CBO(Cost Based Optimizer).

[Run wizard with template](#) ▾ [Manage templates](#)

Using the **Desktop Panel** items you can:

 launch the all-in [Database management](#) program (*SQL Manager for Oracle*) and run basic Oracle [services](#):


- *Backup Database* (with or without a template);
- *Restore Database* (with or without a template);
- *Advanced statistics* (with or without a template);

 launch integrated [Data manipulation](#) utilities:

- *Data Export for Oracle* (with or without a template, GUI or console version);
- *Data Import for Oracle* (with or without a template, GUI or console version);
- *Data Pump for Oracle* (with or without a template, GUI or console version);
- *Data Generator for Oracle* (with or without a template, GUI or console version);
- *SQL Script for Oracle* (with or without a template, GUI or console version);


 launch utilities implemented for [Data analysis](#):

- *Data Comparer for Oracle* (with or without a template, GUI or console version);
- *DB Comparer for Oracle* (with or without a project file, GUI or console version);
- *DB Extract for Oracle* (with or without a template, GUI or console version);
- *SQL Query for Oracle*;

 manage [templates](#) for each of the integrated tools and services;

 manage miscellaneous [tasks](#);

 manage [scheduled tasks](#);

 manage task [logs](#);

 use available [Internet resources](#):

- visit SQL Studio Home Page;
- browse SQL Studio pages dedicated to [Frequently Asked Questions](#);
- browse online documentation concerning SQL Studio components;
- visit Oracle related resources;

 get [technical support](#) online.

Hint: To activate/deactivate brief descriptions displayed for each tool on the **Desktop Panel**, you can use the **View | Show Tool Descriptions** item of the [main menu](#).

See also:

[Using Studio Agent](#)

[Selecting application language](#)

[First time started](#)

[Working with main menu](#)

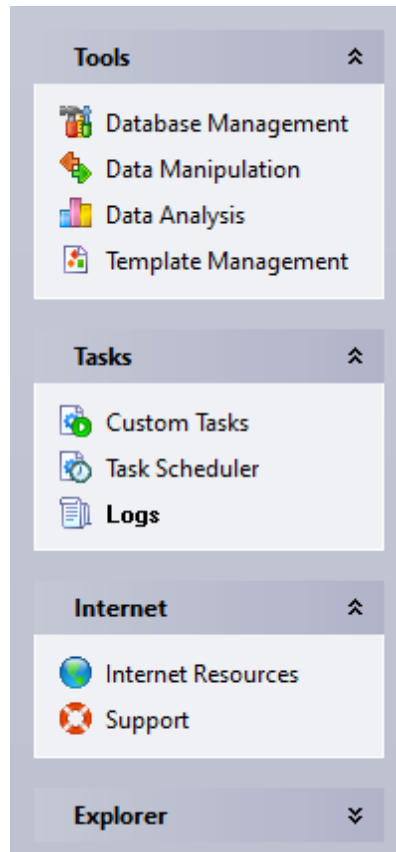
[Working with toolbars](#)

[Using Navigation bar](#)

[Using DB Explorer](#)

2.7 Using Navigation bar

Navigation bar is located on the left side of SQL Studio window. It is a convenient tool for quick navigation within SQL Studio activities.



Items available within the **Navigation bar** panes represent the following SQL Studio tools:

Tools:

- [Database management](#)
- [Data Manipulation](#)
- [Data Analysis](#)
- [Template Management](#)

Tasks:

- [Custom Tasks](#)
- [Task Scheduler](#)
- [Logs](#)

Internet:

- [Internet Resources](#)
- [Support](#)

To activate/deactivate **Navigation bar** and its panes, you can use the **View | Navigation bar** [main menu](#) items.

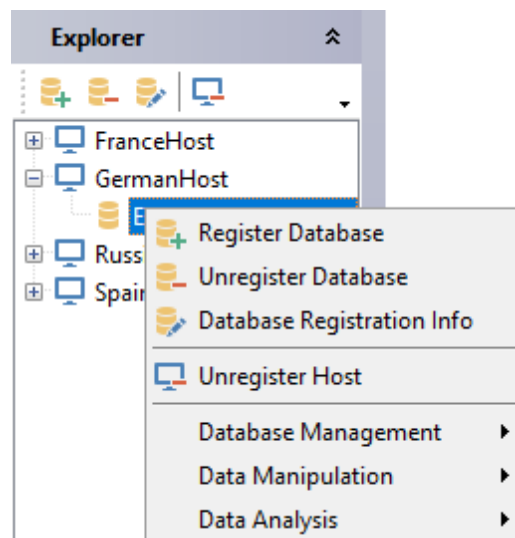
See also:[Using Studio Agent](#)[Selecting application language](#)[First time started](#)[Working with main menu](#)[Working with toolbars](#)[Using Desktop Panel](#)[Using DB Explorer](#)

2.8 Using DB Explorer

Database Explorer (or **DB Explorer**) is the basic window of SQL Studio for navigation within registered hosts and databases. The tree-like structure of DB Explorer allows you to manage the hosts and databases and perform everyday operations quickly and easily.

To activate/deactivate **DB Explorer**, you can use the corresponding **View | Navigation bar | Explorer** item of the [main menu](#).

By default, **DB Explorer** is located below the [Navigation bar](#) in the lower-left area of SQL Studio window. DB Explorer displays all registered hosts and databases; with its help you can add and remove items to/from the Explorer tree, browse registration information of databases and start Oracle services for selected databases. Single registered database repository allows you to use database registration information in all utilities integrated in SQL Management Studio for Oracle.



To add a database to the **DB Explorer** tree, select the **Database | Register Database** item of the [main menu](#) or use the corresponding item of the context menu. If more convenient, you can use the **Register Database toolbar** button.

To remove a database from the **DB Explorer** tree, select the **Database | Unregister Database** item of the [main menu](#) or use the corresponding item of the context menu. If more convenient, you can use the **Unregister Database toolbar** button.

To view database registration info, select the **Database | Database Registration Info** item of the [main menu](#) or use the corresponding item of the context menu. If more convenient, you can use the **Database Registration Info toolbar** button.

See also:

[Using Studio Agent](#)

[Selecting application language](#)

[First time started](#)

[Working with main menu](#)

[Working with toolbars](#)

[Using Desktop Panel](#)

[Using Navigation bar](#)

Part



3 Database Management & Manipulation

All the **Database Management & Manipulation** abilities provided by SQL Management Studio for Oracle are classified and divided into several sections. They are:

Database Management

This group allows you to [administrate](#) and [develop](#) databases with the help of SQL Manager for Oracle and run Oracle [services](#).

Data Manipulation

This group represents a variety of utilities for [exporting](#) and [importing](#) data to/from the most popular [formats](#), [migrating](#) to Oracle databases, [generating](#) test data and [scripting](#) databases.

Data Analysis

The wide range of abilities provided by this group of tools includes the ability to [compare and synchronize the content](#) and [structure](#) of your databases, create [database backups in the form of SQL scripts](#), as well as analyze and retrieve your data and build [queries](#) visually.

Template Management

For your convenience the ability to create new templates and manage existing ones is provided by SQL Management Studio for Oracle.

These sections can be toggled by clicking the appropriate items on the [Navigation bar](#).

See also:

[Getting Started](#)

[Scheduling & Performing tasks](#)

[Using On-line Resources](#)

[Setting program options](#)

3.1 Database Management

The **Database Management** section allows you to administrate and develop databases with the help of SQL Manager for Oracle and run Oracle services.

- [Running SQL Manager](#)
- [Using services](#)

Database Management



[SQL Manager for Oracle](#)

SQL Manager is a powerful tool designed to automate and simplify database development process. It also provides an easier way to design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

Services



[Backup Database](#)

Create a full reserve copy of your Oracle database in the online mode.

[Run wizard with template](#) ▾ [Manage templates](#)



[Restore Database](#)

Restore your Oracle database from a reserve copy, previously saved with Backup Database.

[Run wizard with template](#) ▾ [Manage templates](#)



[Advanced statistics](#)

Collect your Oracle database statistics for CBO(Cost Based Optimizer).

[Run wizard with template](#) ▾ [Manage templates](#)

See also:

[Data Manipulation](#)

[Data Analysis](#)

[Template Management](#)

3.1.1 Running SQL Manager

EMS SQL Manager for Oracle is a powerful tool for Oracle administration and development. SQL Manager works with Oracle versions from 8.1.7 to 21c and supports most of the latest Oracle features. It offers plenty of powerful tools for experienced users to satisfy all their needs.

SQL Manager for Oracle has a new convenient graphical user interface with a well-described wizard system that is so clear and easy to use that even a newbie will not be confused by it.

To run SQL Manager for Oracle, click its icon or caption on the [Desktop Panel](#).



[SQL Manager for Oracle](#)

SQL Manager is a powerful tool designed to automate and simplify database development process. It also provides an easier way to design, explore and maintain existing databases, build compound SQL query statements, manage database user rights and manipulate data in different ways.

See also:

[Using services](#)

3.1.2 Using services

SQL Studio's integrated features provide an easy way to run all native Oracle services that are intended for database maintenance. The following services and server tools are available:

Services



[Backup Database](#)

Create a full reserve copy of your Oracle database in the online mode.

[Run wizard with template](#) ▾ [Manage templates](#)



[Restore Database](#)

Restore your Oracle database from a reserve copy, previously saved with Backup Database.

[Run wizard with template](#) ▾ [Manage templates](#)



[Advanced statistics](#)

Collect your Oracle database statistics for CBO(Cost Based Optimizer).

[Run wizard with template](#) ▾ [Manage templates](#)

To run a service, click its icon or caption on the [Desktop Panel](#) and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu allowing you to specify a [template](#) and *run the wizard with this template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case you will be redirected to the [Template Management](#) section of SQL Studio.

Backup Database

Creates backup copies of your Oracle databases.

Restore Database

Restores Oracle databases from previously created backups.

Advanced Statistics

Collects various statistics as an aid to improve the performance.

See also:

[Running SQL Manager](#)

3.2 Data Manipulation

Data Manipulation represents a variety of tools for exporting and importing data to/from the most popular [formats](#), migrating between Oracle databases and generating test data for the databases.

Data Manipulation



[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.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



[Data Import for Oracle](#)

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



[Data Pump for Oracle](#)

Migrate from any ADO-compatible sources to Oracle databases.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



[Data Generator for Oracle](#)

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



[SQL Script for Oracle](#)

Execute your SQL scripts fast and easy.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

- [Running Data Export utility](#)
- [Running Data Import utility](#)
- [Running Data Pump utility](#)
- [Running Data Generator utility](#)
- [Running SQL Script utility](#)

See also:

[Database Management](#)

[Data Analysis](#)

[Template Management](#)

3.2.1 Running Data Export

EMS Data Export for Oracle is a powerful utility to export your data quickly from Oracle databases to any of 20 available [formats](#), including MS Access, MS Excel, MS Word (RTF), HTML, XML, PDF, TXT, CSV, DBF and more.

Data Export for Oracle provides you with an easy-to-use Wizard that guides you through all the steps of the data export process: you can set export options for each table visually (destination filename, exported fields, data formats, and many others). In addition to **the GUI version**, which is implemented as a Wizard application, Data Export for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run Data Export for Oracle, click its icon or caption in the [Data Manipulation](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[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.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running Data Import](#)

[Running Data Pump](#)

[Running Data Generator](#)

[Running SQL Script](#)

3.2.2 Running Data Import

EMS Data Import for Oracle is a powerful program to import your data quickly from MS Excel, MS Access, DBF, TXT and CSV files to Oracle tables.

Data Import for Oracle provides you with an easy-to-use Wizard that guides you through all the steps of the data import process: you can set import parameters, including source data formats for all fields and destination data formats for selected fields, commit options, number of records to skip, import mode, etc.

In addition to **the GUI version**, which is implemented as a Wizard application, Data Import for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run Data Import for Oracle, click its icon or caption in the [Data Manipulation](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[Data Import for Oracle](#)

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running Data Export](#)

[Running Data Pump](#)

[Running Data Generator](#)

[Running SQL Script](#)

3.2.3 Running Data Pump

EMS Data Pump for Oracle is an excellent utility for converting databases and importing table data from an ADO-compatible source (e.g. MS Access or any other database with ADO support) to Oracle databases. Database conversion becomes as easy as possible with Data Pump for Oracle!

Data Pump for Oracle provides you with an easy-to-use Wizard that guides you through all the steps of the migration process: you can build the connection string, select tables, fields and indices for converting, view and edit the SQL script for generating the target Oracle database structure and select tables for data import.

In addition to **the GUI version**, which is implemented as a Wizard application, Data Pump for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run Data Pump for Oracle, click its icon or caption in the [Data Manipulation](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[Data Pump for Oracle](#)

Migrate from any ADO-compatible sources to Oracle databases.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running Data Export](#)

[Running Data Import](#)

[Running Data Generator](#)

[Running SQL Script](#)

3.2.4 Running Data Generator

EMS Data Generator for Oracle is a powerful utility for generating test data for several Oracle database tables at once. The application provides many features to generate test data in a simple and direct way.

Data Generator for Oracle provides you with an easy-to-use Wizard that guides you through all the steps of the data generation process: you can define tables and fields for generating data, set value ranges, generate char fields by mask, load values for BLOB fields from files, get lists of values from SQL queries and more.

In addition to **the GUI version**, which is implemented as a Wizard application, Data Generator for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run Data Generator for Oracle, click its icon or caption in the [Data Manipulation](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



Data Generator for Oracle

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running Data Export](#)

[Running Data Import](#)

[Running Data Pump](#)

[Running SQL Script](#)

3.2.5 Running SQL Script

The **SQL Script utility** is an easy-to-use tool allowing you to execute your SQL scripts efficiently.

SQL Script for Oracle provides you with an editor window that lets you to manage your scripts easily.

In addition to **the GUI version**, SQL Script for Oracle includes a **console version**

intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run SQL Script for Oracle, click its icon or caption in the [Data Manipulation](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[SQL Script for Oracle](#)

Execute your SQL scripts fast and easy.

[Run wizard with template](#)



[Run console with template](#)



[Manage templates](#)

See also:

[Running Data Export](#)

[Running Data Import](#)

[Running Data Pump](#)

[Running Data Generator](#)

3.3 Data Analysis

The **Data Analysis** section provides a wide range of capabilities, including comparing and synchronizing database metadata and data, creating backups in the form of SQL scripts, as well as analyzing and retrieving your data, and building your queries visually.

Data Analysis



Data Comparer for Oracle

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



Database Comparer for Oracle

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

[Run application with project](#) ▾ [Run console with project](#) ▾ [Manage projects](#)



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.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)



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.

- [Running Data Comparer utility](#)
- [Running Database Comparer utility](#)
- [Running DB Extract utility](#)
- [Running SQL Query utility](#)

See also:

[Database Management](#)

[Data Manipulation](#)

[Template Management](#)

3.3.1 Running Data Comparer

EMS Data Comparer for Oracle is a powerful and easy-to-use utility for data comparison and synchronization. With flexible customization of the comparison and synchronization process you can select tables and fields for comparison and configure many other options.

Data Comparer for Oracle provides you with a Wizard that guides you through all the steps of the data comparison and synchronization process: you can view all the differences in tables being compared and execute an automatically generated script to eliminate these differences.

In addition to **the GUI version**, which is implemented as a Wizard application, Data Comparer for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run Data Comparer for Oracle, click its icon or caption in the [Data Analysis](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to

open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[Data Comparer for Oracle](#)

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

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running DB Comparer](#)

[Running DB Extract](#)

[Running SQL Query](#)

3.3.2 Running Database Comparer

EMS DB Comparer for Oracle is an excellent tool for comparing Oracle databases and discovering differences in their structure. A simple and intuitive GUI allows you to work with several projects at once, define comparison parameters, and alter modification scripts. Many other features make your work with our tool easy and fast.

DB Comparer for Oracle provides you with an easy-to-use GUI environment: you can view all differences in the compared database objects and execute an automatically generated script to eliminate all or selected differences.

In addition to **the GUI version**, which is implemented as a Wizard application, DB Comparer for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run DB Comparer for Oracle, click its icon or caption in the [Data Analysis](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage projects** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.



[Database Comparer for Oracle](#)

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

[Run application with project](#) ▾ [Run console with project](#) ▾ [Manage projects](#)

See also:

[Running Data Comparer](#)

[Running DB Extract](#)

[Running SQL Query](#)

3.3.3 Running DB Extract

EMS DB Extract for Oracle is a powerful and easy-to-use utility for creating database backups in the form of SQL scripts. It allows you to save metadata of all database objects as well as table data.

DB Extract for Oracle provides you with a Wizard that guides you through all the steps of the metadata and data extraction process: you can select objects and data tables for extraction and tune a number of other extract options.

In addition to **the GUI version**, which is implemented as a Wizard application, DB Extract for Oracle includes a **console version** intended to run from the Windows command line with a [template](#) file name used as the execution parameter.

To run DB Extract for Oracle, click its icon or caption in the [Data Analysis](#) section and follow the steps of the Wizard. If necessary, you can click the Arrow-down button to open the menu, where you can specify a [template](#) and then *run the wizard/console with the template*.

To manage configuration files ([templates](#)), use the corresponding **Manage templates** link. In this case, you will be redirected to the [Template Management](#) section of SQL Studio.

**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.

[Run wizard with template](#) ▾ [Run console with template](#) ▾ [Manage templates](#)

See also:

[Running Data Comparer](#)

[Running DB Comparer](#)

[Running SQL Query](#)

3.3.4 Running SQL Query

EMS SQL Query for Oracle is a utility that lets you build SQL queries to Oracle databases quickly and easily. Visual building as well as direct editing of a query text are available. User-friendly graphical interface allows you to connect to databases, select tables and fields for a query, set selection criteria and much more. You can work with several queries at once, edit queries and view the execution results in several modes and perform any other operations you may need when working with database queries.

To run SQL Query for Oracle, click its icon or caption in the [Data Analysis](#) section and follow the steps of the Wizard.

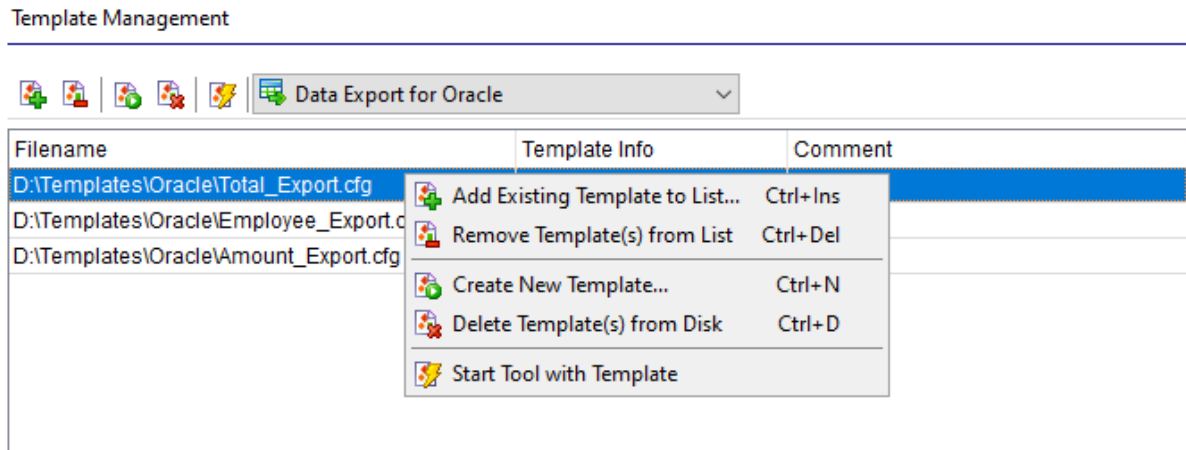
**SQL Query for Oracle**

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

See also:[Running Data Comparer](#)[Running DB Comparer](#)[Running DB Extract](#)

3.4 Template Management

For your convenience, SQL Management Studio for Oracle allows you to create new templates and manage existing ones. All these operations can be performed with the help of the **Template Management** section.



The **Template Management** section enables you to:

-  **Add Existing Template to List**
-  **Remove Template(s) from List**
-  **Create New Template**
-  **Delete Template(s) from Disk**
-  **Start Tool with Template**

The same operations can be performed by using the corresponding items of the context menu.

To create a new template, select the corresponding context menu item or click the appropriate button on the **Templates** toolbar. Depending on the utility or service for which the template should be created, SQL Management Studio for Oracle will run the appropriate tool or service dialogs. While working with the steps of the wizard, you can enter all the settings and save them as a template at the last step.

The drop-down list allows you to filter templates according to the selected SQL Studio tool/service.

See also:

[Database Management](#)

[Data Manipulation](#)

[Data Analysis](#)

Part



4 Scheduling & Performing tasks

All the **Scheduling & Performing Tasks** capabilities provided by SQL Management Studio for Oracle are classified and divided into several sections. They are:

Customizing tasks

This section allows you to [create](#), [edit](#), [delete](#) and [launch](#) tasks immediately. Save your time and effort by using batch-like tasks. Create your task easily with the built-in [Task Editor](#). Choose from a number of [notifications](#) for your task to monitor its execution.

Task scheduling

Need a delayed or regular task execution? This section lets you set [schedules](#) for launching your [tasks](#).

Managing logs

To help you control the task execution process or simply review its results, the **Managing logs** section is available. Use the log preview to save your time, and apply the powerful [filtering](#) and [sorting](#) options available in the grid.

These sections can be toggled by clicking the appropriate items on the [Navigation bar](#).

See also:

[Getting Started](#)

[Database Management & Manipulation](#)

[Using On-line Resources](#)

[Setting program options](#)

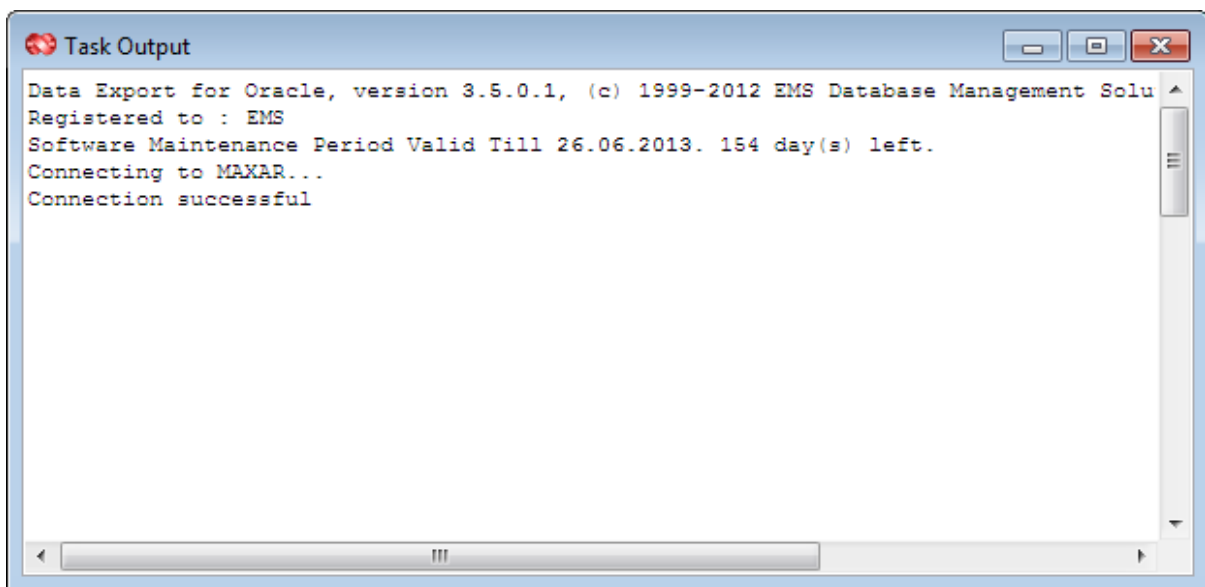
4.1 Customizing tasks

This section provides the ability to **create**, **edit**, **delete**, and immediately **launch tasks**. Save your time and effort by using batch-like tasks. Create your task easily in the built-in **Task Editor**. Choose from a number of notifications for your task to monitor its execution.

To get more information, use the following links:

- [Managing tasks](#)
- [Using Task Editor](#)

When a custom task is launched, the Task Output window appears, displaying the task execution log.



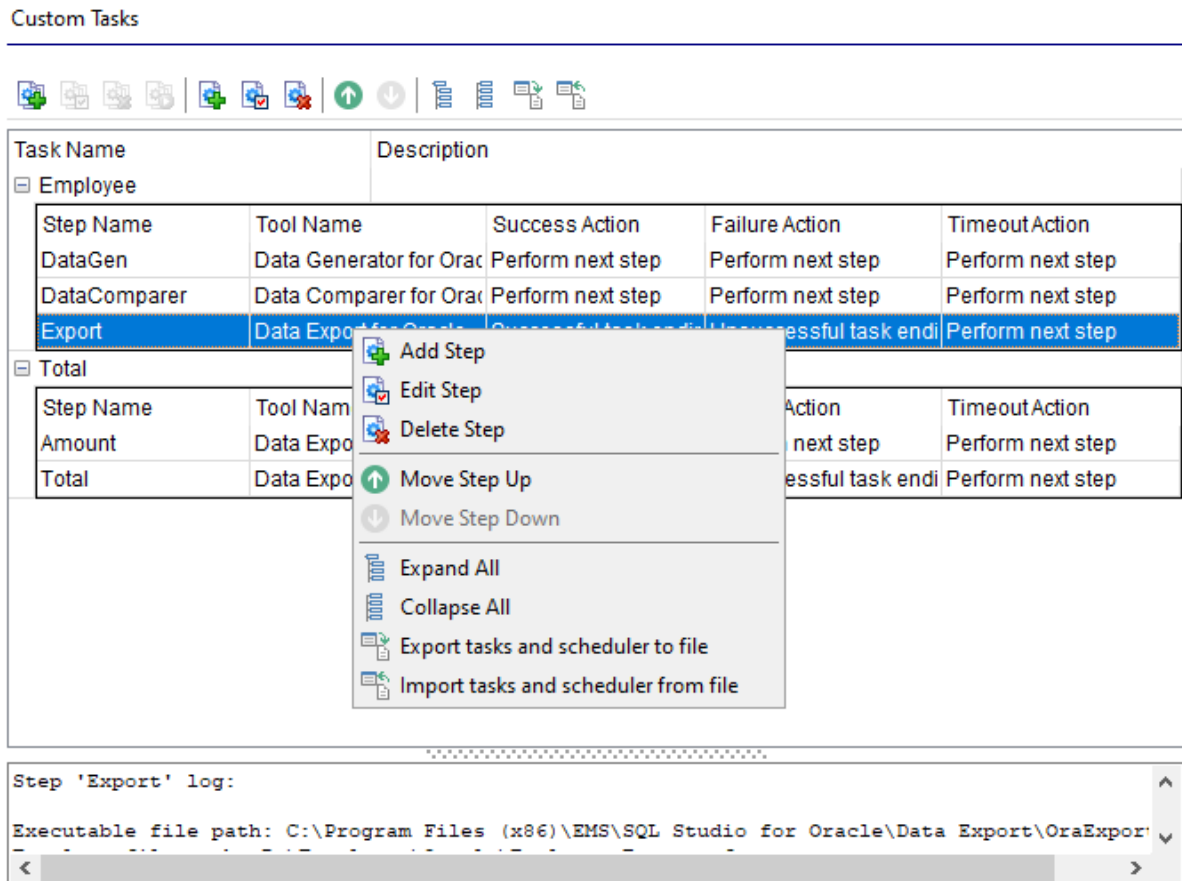
See also:

[Tasks Scheduling](#)

[Managing logs](#)

4.1.1 Managing tasks and task steps

The **Custom Tasks** section allows you to manage your tasks and task steps efficiently.













The list displays the existing tasks as a grid with the following columns: *Task Name*, *Description*.

Right-click an item within the list to open the **context menu**, which lets you *add* a new task and specify its properties using the [Task Editor](#) dialog, *edit* the selected task, *delete* the task or *launch* the custom task.

A custom task can be [scheduled](#) or executed directly. To perform an immediate launch of a task, select it and click the corresponding button on the toolbar (or use the corresponding context menu item).

If necessary, you can quickly expand and collapse the list of task steps. Use the *Expand All* / *Collapse All* context menu items for this purpose.

You can also use the toolbar buttons to **add**  / **edit**  / **delete**  a task or task step, **launch**  a task, **move step up**  / **down** , **expand**  / **collapse**  all task steps, **export**  / **import**  tasks, steps and scheduler.

In the **Status** area at the bottom of the **Custom Tasks** window, you can find brief information about the currently selected task. It includes the list of task steps, tools involved, further actions on successful task execution and other useful remarks.

If more convenient, you can use SQL Studio Agent to launch tasks. Right-click its icon in

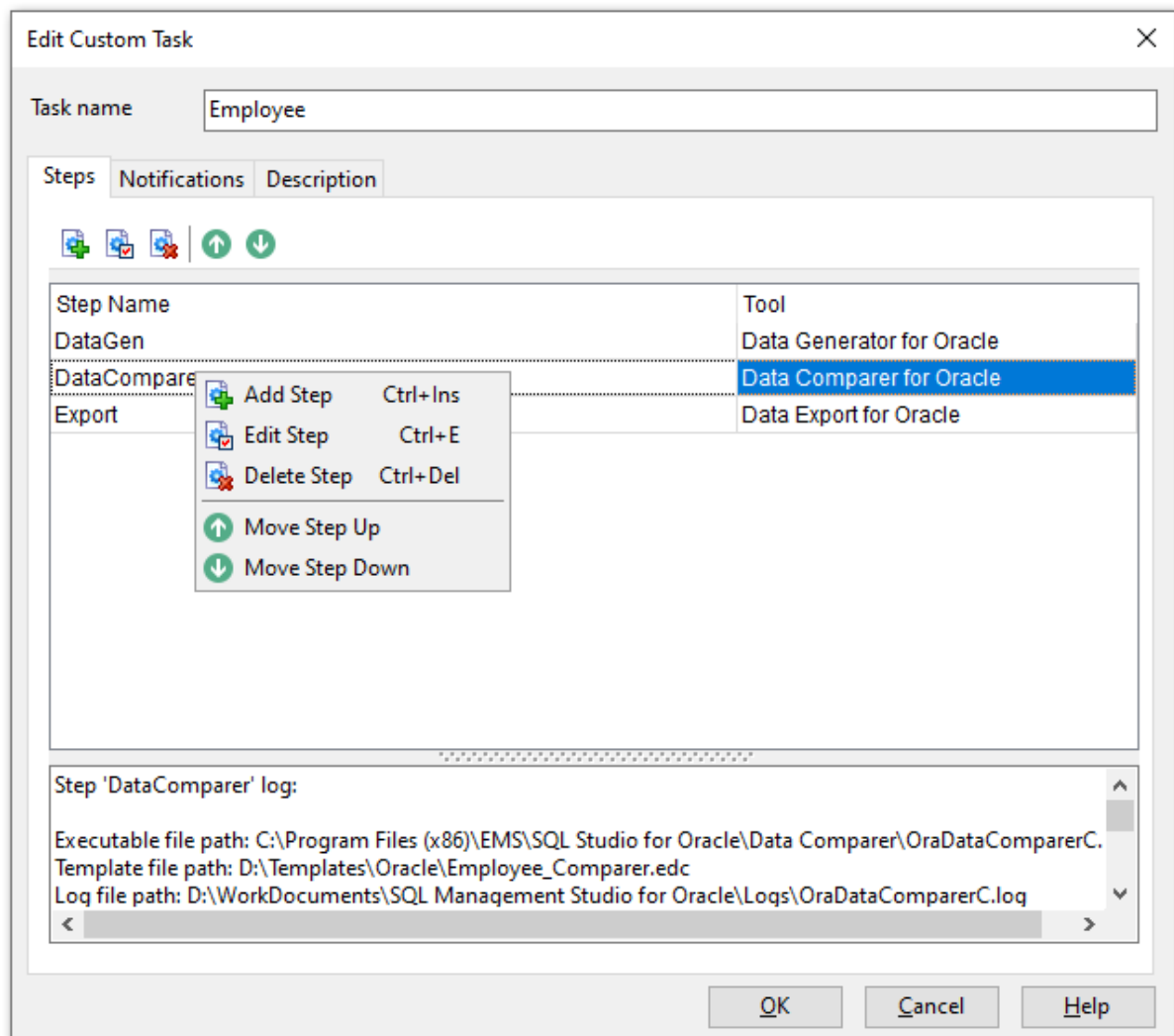
the system tray area, then select the **Execute Custom Task** submenu and choose the task you need.

See also:

[Using Task Editor](#)

4.1.2 Using Task Editor

The **Task Editor** opens automatically when you create a new task or edit an existing one.




First of all, you need to set a **name** for the new task, or you can modify the name if the task is being edited.



Task properties provided by the **Task Editor** are available within the following tabs:

- *Steps*
- *Notifications*

- *Description*

The **Steps** tab allows you to specify the steps required for the task (every task consists of several steps that must be executed in a specific order).

You can  **add** a new step,  **edit** or  **delete** an existing one with the help of the corresponding context menu items or using the toolbar buttons.

Besides, you can change the step execution order by using the  **Move Step Up** and  **Move Step Down** buttons on the toolbar. The same ability is provided by the context menu of the **Task Editor**.

For more details, see [Using Step Editor](#).

In the **Status area** at the bottom of the **Task Editor** window, you can find brief information about the currently selected task step. It includes the path to the executable file, the template file path, the log file path, further actions on successful step execution and misc.

The **Notifications** tab allows you to be informed about the results of task execution (in addition to SQL Studio [Logs](#)): you can set an optional notification.

For more details, see [Setting notifications](#).

You can enter any text as a description for your task. If necessary, you can make your remarks on the **Description** tab of the **Task Editor**.

See also:

[Managing tasks and task steps](#)

4.1.2.1 Setting notifications

The **Notifications** tab of the **Task Editor** lets you set an optional notification of successful and failed task execution. This ability allows you to be informed about each task execution. You can choose between *net send*, *system application log* and *e-mail* notifications.

Edit Custom Task

Task name:

Steps | Notifications | Description

Use net send operator
 Computer: When task succeeds
 Message: When task fails
 Start date time: #Start
 Stop date time: #Stop
 Task result: #Result

Use system application log
 Message: When task succeeds
 Start date time: #Start
 Stop date time: #Stop
 Task result: #Result

Use e-mail
 To: When task succeeds
 Subject: When task fails
 Message:
 Stop date time: #Stop
 Task result: #Result

Use net send operator

Allows you to send notifications via net send. Enter the message to be sent to a remote computer in the corresponding editor field.

Note that you must have **Messenger** service running in order to use this type of notifications (**Windows Control Panel | Administrative Tools | Services | Messenger**).

Use system application log

Allows you to write notifications directly into the system log. Enter the message to be written to the system application log in the corresponding editor field.

Note that in order to view system application log you should open **Windows Control Panel | Administrative Tools | Event Viewer | Application**.

Use e-mail

Allows you to send notifications via email. You should enter the recipient's email address, subject, and message in the corresponding editor.

For proper email notification delivery, please make sure that you have configured the options for the [outgoing mail server](#) in the corresponding tab of the [Options](#) dialog (**Options | Environment options**).

Note: You can also use macronames (#START, #STOP, #RESULT) in the text of e-mail notification:

#START is the actual time when task started;

#STOP stands for the time of task finish;

#RESULT reports task result.

Two options for sending notifications are available: **When task succeeds** and **When task fails**.

The **Test** button allows you to check the notification settings by sending a test message immediately.

4.1.2.2 Using Step Editor

The **Step Editor** opens automatically when you create a new step or edit an existing one.

Edit Step

Step information
 Step name: Total

Tool settings
 Tool (Service): Data Export for Oracle
 Path: C:\Program Files (x86)\EMS\SQL Studio for Oracle\Data Expo
 Template (Parameters): D:\Templates\Oracle\Total_Export.cfg
 Log file: D:\WorkDocuments\SQL Management Studio for Oracle\Log

Log settings
 Save screen to log
 Get log from file

Finish actions
 Successful action: Successful task ending Step:
 Failure action: Unsuccessful task ending Step:
 Timeout, Min: 0
 Timeout action: Perform next step Step:

Other
 Failure only for serious errors
 Log size limitation, Kb: 100

OK Cancel Help

Step information

Step name

Set or modify the name for the task step.

Tool settings

Use the drop-down list to select a tool (service), specify its path, enter the path to the template file and select the location of the log file using the corresponding fields.

You can add a date and time to the log file name, the format of which can be configured using [Format specifiers](#).

Log settings

Here you can specify how the SQL Studio log file is generated.

Save screen to log

Enables saving all data from the utility screen to SQL Studio log file.

Get log from file

Enables usage of the utility log file; all the data contained in it will be saved to SQL Studio log file.

Finish actions

Set successful and unsuccessful finish actions. You can choose to proceed to the next step or to a specified one, end the task with the report of its successful or unsuccessful execution. **Step Editor** also provides timeout handling. You can set the desired timeout time and the action after the timeout expires.

To perform any of the actions listed above, use the appropriate boxes of the **Step Editor**.

Other **Failure only for serious errors**

This option makes the task report successful completion if minor errors (e.g. extract script was executed with some errors) occurred during the utility running.

 Log size limitation

Check this option to limit the log file size for the current step and set a preferred value in the edit box.

4.2 Task Scheduling

Need a delayed or regular task execution? The **Task Scheduler** section allows you to configure the schedules for launching your tasks.

- [Managing scheduled tasks](#)
- [Using schedule Editor](#)

Task Scheduler

Task Name	State	Start Date	Last Run Date	Last Result	Next Run Date
Task Name : Export	Ready	13.08.2025 12:00:00	13.08.2025 13:00:00	Successful	14.08.2025 12:00:00
Task Name : Export_Person	Ready	13.08.2025 13:40:00	13.08.2025 13:30:00		

Context Menu:

- Add Scheduled Task (Ctrl+Ins)
- Edit Scheduled Task (Ctrl+E)
- Delete Scheduled Task (Ctrl+Del)
- Pause Scheduled Task (Ctrl+P)

Schedule Details:

No end date
Recur every 1 week(s) on Friday

See also:

[Customizing tasks](#)

[Managing logs](#)

4.2.1 Managing scheduled tasks

The **Task Scheduler** allows you to manage your [custom tasks](#) configured for scheduled execution.

Task Scheduler

Drag a column header here to group by that column

State	Task Name	Start Date	Last Run Date	Last Result	Next Run Date
Ready	Export	13.08.2025 12:00:00	13.08.2025 13:00:00	Successful	14.08.2025 12:00:00
Ready	Export_Person	13.08.2025 13:40:00	13.08.2025 13:40:00	Successful	13.08.2025 16:40:00
Suspen	Export_Employee	14.08.2025 13:43:18			

Add Scheduled Task Ctrl+Ins
 Edit Scheduled Task Ctrl+E
 Delete Scheduled Task Ctrl+Del
 Resume Scheduled Task Ctrl+R

No end date
Recur every 1 week(s) on Wednesday

The list displays the existing scheduled tasks in a grid with the following columns: *State*, *Task Name*, *Start Date*, *Last Run Date*, *Next Run Date*, *Last Result*.

If necessary, you can **filter** and **group the data in the grid** by any of the columns. The grouping operation is performed by dragging the column header to the gray "**Group by**" **box** area at the top. When grouping by a column is applied to the grid, all the rows are displayed as subnodes under the grouping row. To reverse grouping, just drag the column header back to the grid.

Right-click an item within the list to call the **context menu** allowing you to *add* a new scheduled task and specify its properties using the [Schedule Editor](#) dialog, *edit* the selected task, *delete* the task or *pause/resume* the task that is currently ready/suspended.

You can also use the toolbar buttons to **add**  / **edit** , **pause**  / **resume** , or **delete**  an existing scheduled task.

In the **Status** area at the bottom of the **Task Scheduler** window you can find brief information about the currently selected task.

If more convenient, you can use SQL Studio Agent to suspend/launch tasks. Right-click its icon in the system tray area, then select the **Suspend Scheduled Task** submenu and

choose the task you need. The reverse action is performed in the same way.

Hint: Ready/suspended/launched tasks are distinguished in the **Task Scheduler** list by their icons in the **State** column.

See also:

[Using Schedule Editor](#)

4.2.2 Using Schedule Editor

The **Schedule Editor** opens automatically when you create a new [scheduled task](#) or edit an existing one.

To create a task for delayed execution, please select the task to schedule. If you edit an existing task, you may need to select a different task for the current schedule. Use the **Task name** field of the **Schedule Editor** dialog to select the task in both cases.

When **Suspended** checkbox is selected, the task is put into a suspended state and will not execute according to its schedule. You can resume it at any time by clearing this checkbox.

Edit Scheduled Task

Scheduled task

Task name: Export Suspended

Recurrence pattern

Daily

Weekly Every 1 day(s)

Monthly Every weekday

Yearly

Range of recurrence

Start date: 07.04.2026 No end date

Start time: 16:00:00 End after 14 runs

Daytime launches: 22:00:00 End by 20.04.2026

Add Launch

Delete Launch

OK Cancel Help

Next, define the **recurrence pattern** for task execution:

- Daily
- Weekly
- Monthly
- Yearly

Daily

You can set the task to run **Every X day(s)** or **Every weekday** (i.e. except weekend days).

Weekly

The recurrence pattern allows you to schedule the task to run on a specified day of the week (Monday, Tuesday, Wednesday, etc. - check the corresponding box) every X week (s).

Recurrence pattern

Daily Recur every week(s) on

Weekly Monday Tuesday Wednesday Thursday

Monthly Friday Saturday Sunday

Yearly

For example, if you set the task to run 'Every 3 weeks on Tuesday', the task will be executed exactly on Tuesday once every three weeks.

Monthly

You can schedule the task to run on a specific day of every X month(s), or you can run the task on a certain day of a specific week (e.g., the first Sunday) of every X month(s).

Recurrence pattern

Daily

Weekly Day of every month(s)

Monthly The of every month(s)

Yearly

Yearly

You can schedule the task to run on a certain day of a specific month (e.g., on June 14). Alternatively, you can run the task on the first/second/.../last day of the week of a specific month (e.g., on the second Wednesday of April).

Recurrence pattern

Daily

Weekly

Monthly

Yearly

Every

The of

Range of recurrence

Here you should specify the starting and ending points of the task execution period. Specify **Start date** and **Start time** and then set the end date for the recurrence range.

No end date

If this option is selected, the task will be executed perpetually, unless it is deleted/modified.

End after...

This option specifies that the task will run only X times.

End by ...

This option specifies the exact date as the end of the recurrence range.

Daytime launches

Use the **Add Launch** and the **Delete Launch** buttons to add/remove one or more daytime points for the task execution.

See also:

[Managing scheduled tasks](#)

4.3 Managing logs

To make it easier to control the task execution process or browse its results, the **Logs** section is provided. Use the log preview to save time and take advantage of the powerful filtering and sorting options available in the grid.

Logs

Task Name

Show logs for This Month

Task Name	Started At	Stopped At	Result
Task Name : Export			
13.08.2025 13:00:00	13.08.2025 13:00:01	Successful	
Task Name : Export_Person			
12.08.2025 16:00:00	12.08.2025 16:00:02	Successful	
11.08.2025 16:00:00	11.08.2025 16:00:02	Successful	

Task 'Export' log:

Step #	Name	Started At
1	Export	13.08.2025 13:00:00

The **"Show logs for"** drop-down list allows you to filter task logs according to the selected period (*All sessions, Today, This week, This month, Last week, Last month, Last 10 days, Last 30 days*).

The list displays the task logs in a grid with the following columns: *Task Name, Started at, Stopped at, Result*.

If necessary, you can **filter** and **group the data in the grid** by any of the columns. The grouping operation is performed by dragging the column header to the gray **"Group by" box** area at the top. When grouping by a column is applied to the grid, all the rows are displayed as subnodes under the grouping row. To reverse grouping, just drag the column header back to the grid.

Right-click an item within the list to call the **context menu** allowing you to *save or delete* the selected task log, *expand/collapse* the step logs.

You can also use the toolbar buttons to **save**  / **delete**  a task log, **expand**  / **collapse**  items in the list.

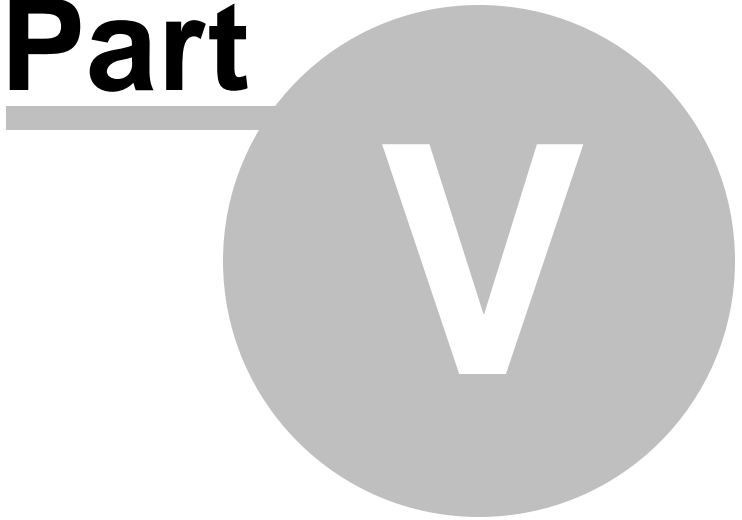
In the **Status** area at the bottom of the **Log Viewer** window you can find brief information about the currently selected task log. Depending on the log options that are set, a log may contain all data from the utility screen, data from the utility log file, or both. The verbose options are set during the step creation process (see [Using Step Editor](#)).

See also:

[Customizing tasks](#)

[Tasks Scheduling](#)

Part



5 Using On-line Resources

All the **On-line Resources** provided by SQL Management Studio for Oracle are classified and divided into several sections.

[Internet Resources](#)

Offers a number of links concerning SQL Studio and integrant utilities, links to [FAQs](#) and online documentation.

[Contacting Support Center](#)

Takes you directly to [EMS Support Center](#). After logging in you can get the answers to your questions. If you are a [registered](#) user of EMS software, you are guaranteed to receive a reply from the Support team within 24 hours.

These sections can be toggled by clicking the appropriate items of the [Navigation bar](#).

See also:

[Getting Started](#)

[Database Management & Manipulation](#)

[Scheduling & Performing tasks](#)

[Setting program options](#)

5.1 Browsing Internet Resources

The **Internet Resources** section offers a number of links concerning SQL Studio and integrant utilities, links to FAQs and online documentation.

Internet Resources



[SQL Studio for Oracle home page](#)

Learn more about SQL Studio for Oracle

[SQL Studio for Oracle FAQ](#)



Frequently asked questions about

- [SQL Manager for Oracle](#)
- [Data Export for Oracle](#)
- [Data Import for Oracle](#)
- [Data Pump for Oracle](#)
- [Data Generator for Oracle](#)
- [Data Comparer for Oracle](#)
- [Database Comparer for Oracle](#)
- [DB Extract for Oracle](#)
- [SQL Query for Oracle](#)
- [SQL Script for Oracle](#)

[SQL Studio for Oracle documentation](#)



Online Documentation for

- [SQL Manager for Oracle](#)
- [Data Export for Oracle](#)
- [Data Import for Oracle](#)
- [Data Pump for Oracle](#)
- [Data Generator for Oracle](#)
- [Data Comparer for Oracle](#)
- [Database Comparer for Oracle](#)
- [DB Extract for Oracle](#)
- [SQL Query for Oracle](#)
- [SQL Script for Oracle](#)

[Related Resources](#)



[Oracle Homepage](#)

Upon a link selection you will be immediately forwarded to the corresponding resource.

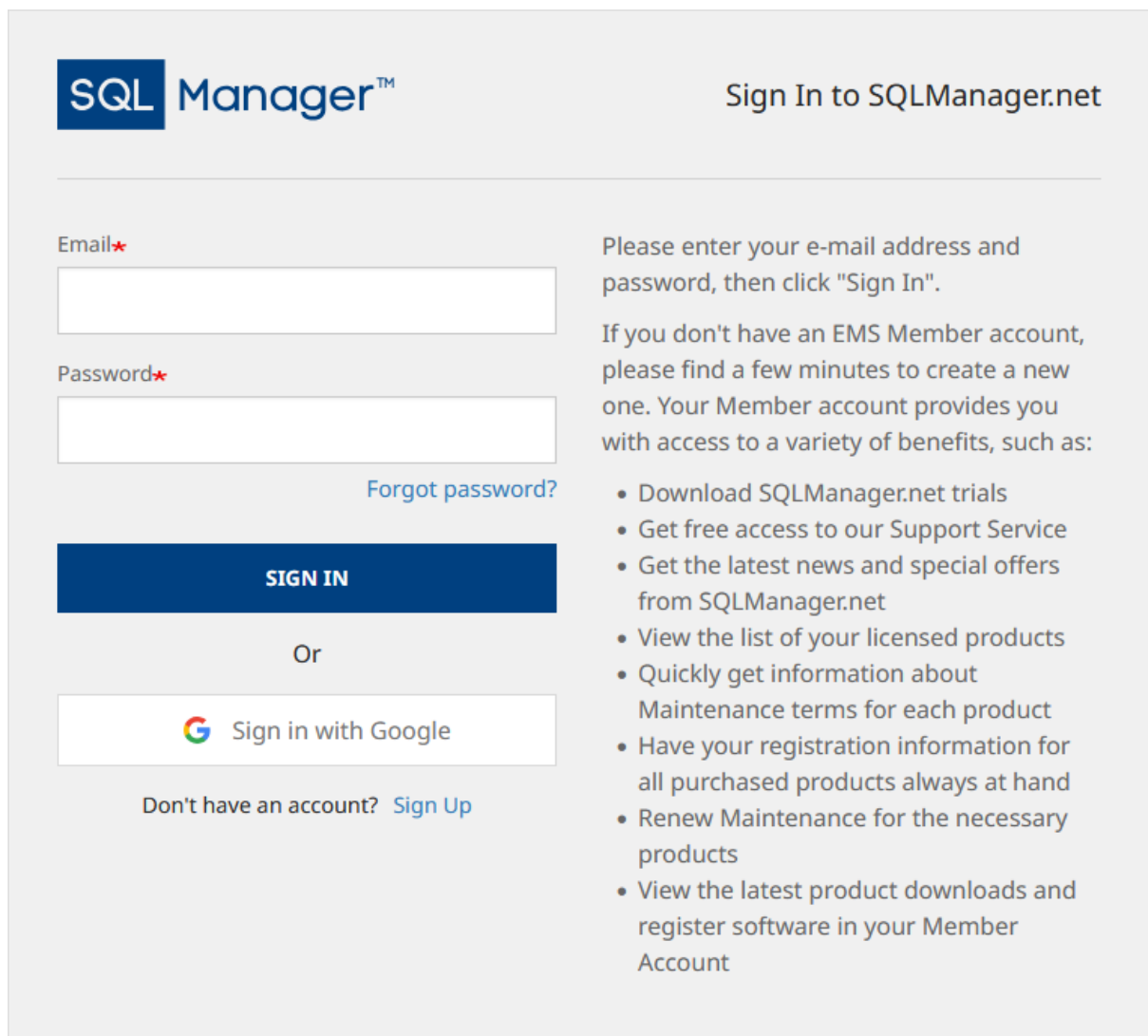
See also:

[Support](#)

5.2 Contacting Support Center

This section will take you directly to [EMS Support Center](#). After logging in you can get the answers to your questions.

Note that if you are a [registered](#) user of EMS software, you will get a guaranteed reply within 24 hours.



SQL Manager™ Sign In to SQLManager.net


Email★

Password★

[Forgot password?](#)

SIGN IN

Or

 Sign in with Google

Don't have an account? [Sign Up](#)

Please enter your e-mail address and password, then click "Sign In".

If you don't have an EMS Member account, please find a few minutes to create a new one. Your Member account provides you with access to a variety of benefits, such as:

- Download SQLManager.net trials
- Get free access to our Support Service
- Get the latest news and special offers from SQLManager.net
- View the list of your licensed products
- Quickly get information about Maintenance terms for each product
- Have your registration information for all purchased products always at hand
- Renew Maintenance for the necessary products
- View the latest product downloads and register software in your Member Account

See also:

[Internet Resources](#)

Part



6 Setting program options

This section is intended to show you how you can customize SQL Management Studio for Oracle. Follow the links below to obtain the information on:

- [General settings](#)
- [Outgoing mail service](#)
- [Localization](#)
- [Customizing menus and toolbars](#)
- [Setting agent options](#)

See also:

[Getting Started](#)

[Database Management & Manipulation](#)

[Scheduling & Performing tasks](#)

[Using On-line Resources](#)

6.1 General

Set general options for the application.

Theme

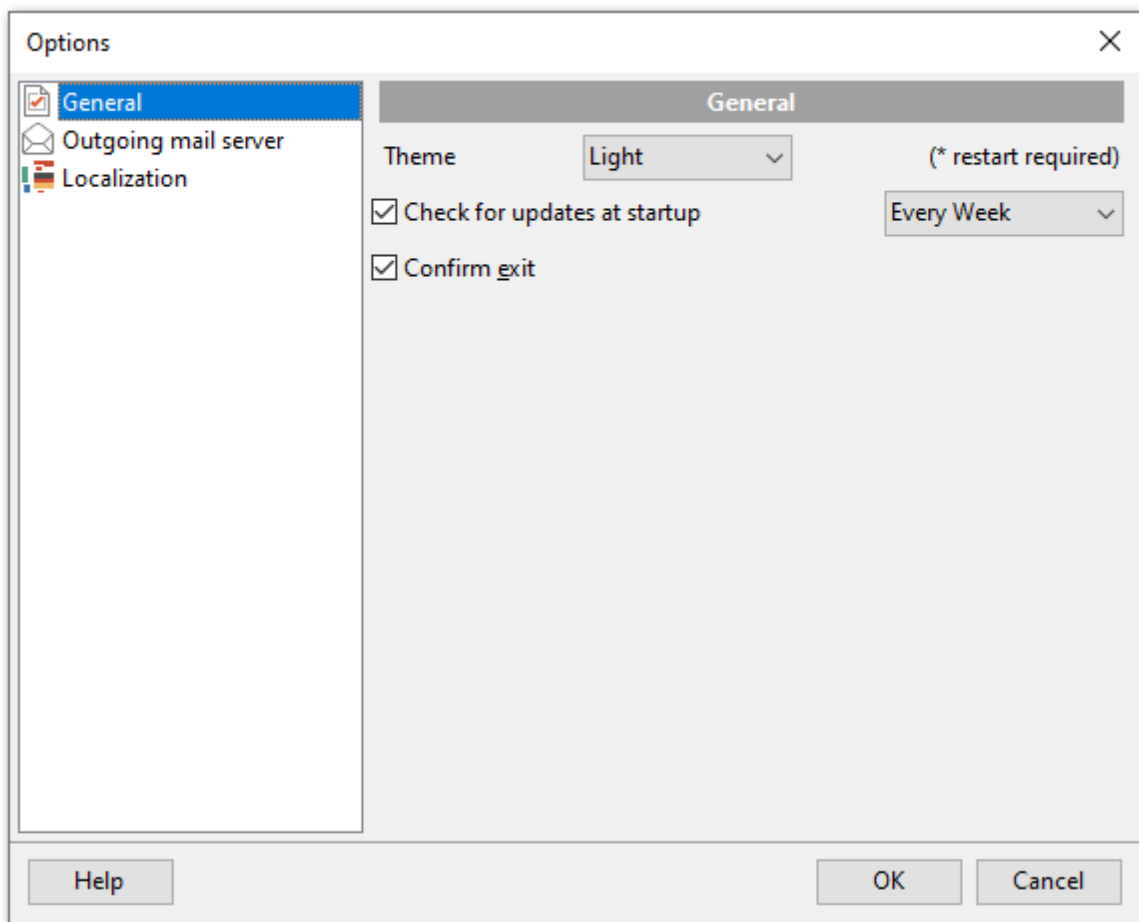
Select Light or Dark visual theme for the application.

Check for updates at startup

Enable this option to automatically check for program updates. Use the drop-down list to specify the update check frequency: *Every Day*, *Every Week*, *Every Month*.

Confirm exit

Displays confirmation dialog before closing the program.



6.2 Outgoing mail service

Set options for mail server to send [task notifications](#).

From

Specify the email to send notifications from.

Host

Enter the address of the outgoing mail server (SMTP server).

Port

Set the port for the outgoing mail.

Login

Enter your username or email address for authentication on the mail server.

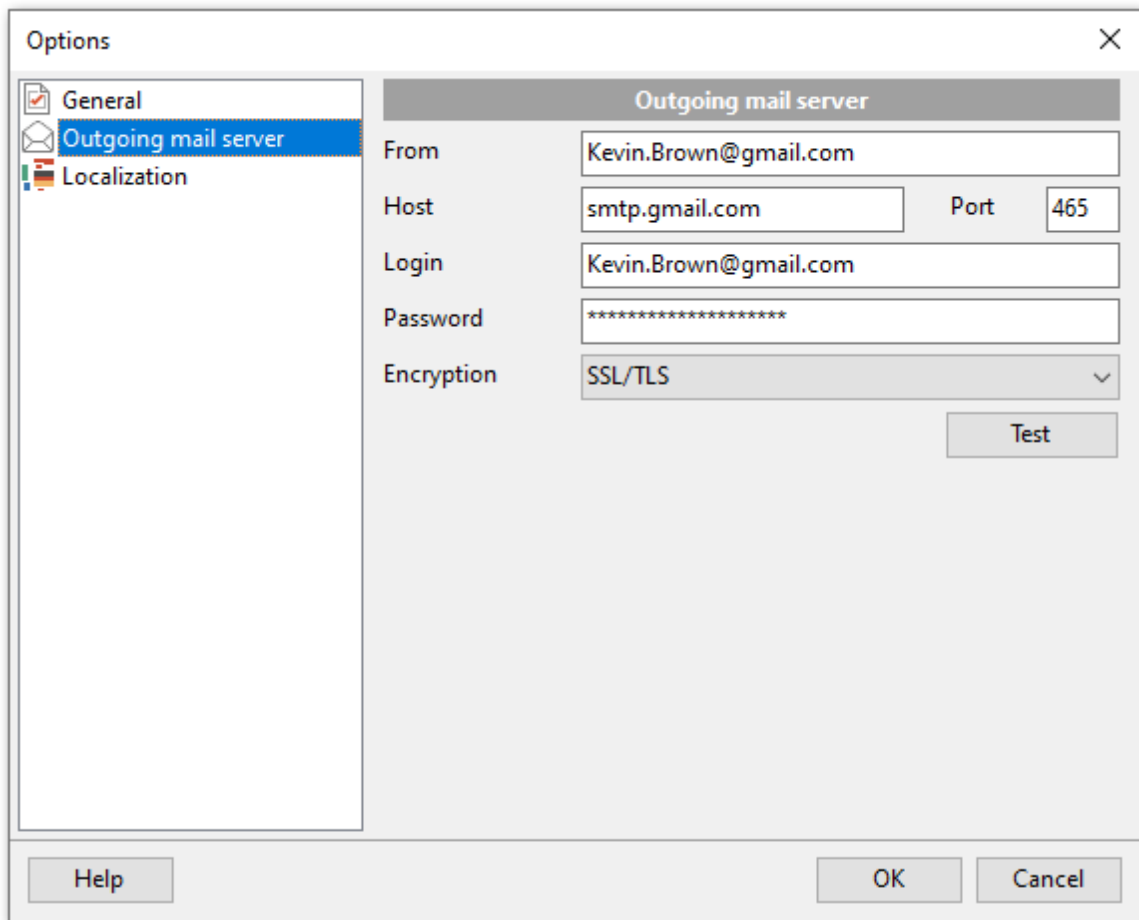
Password

Enter the password for the specified login.

Encryption

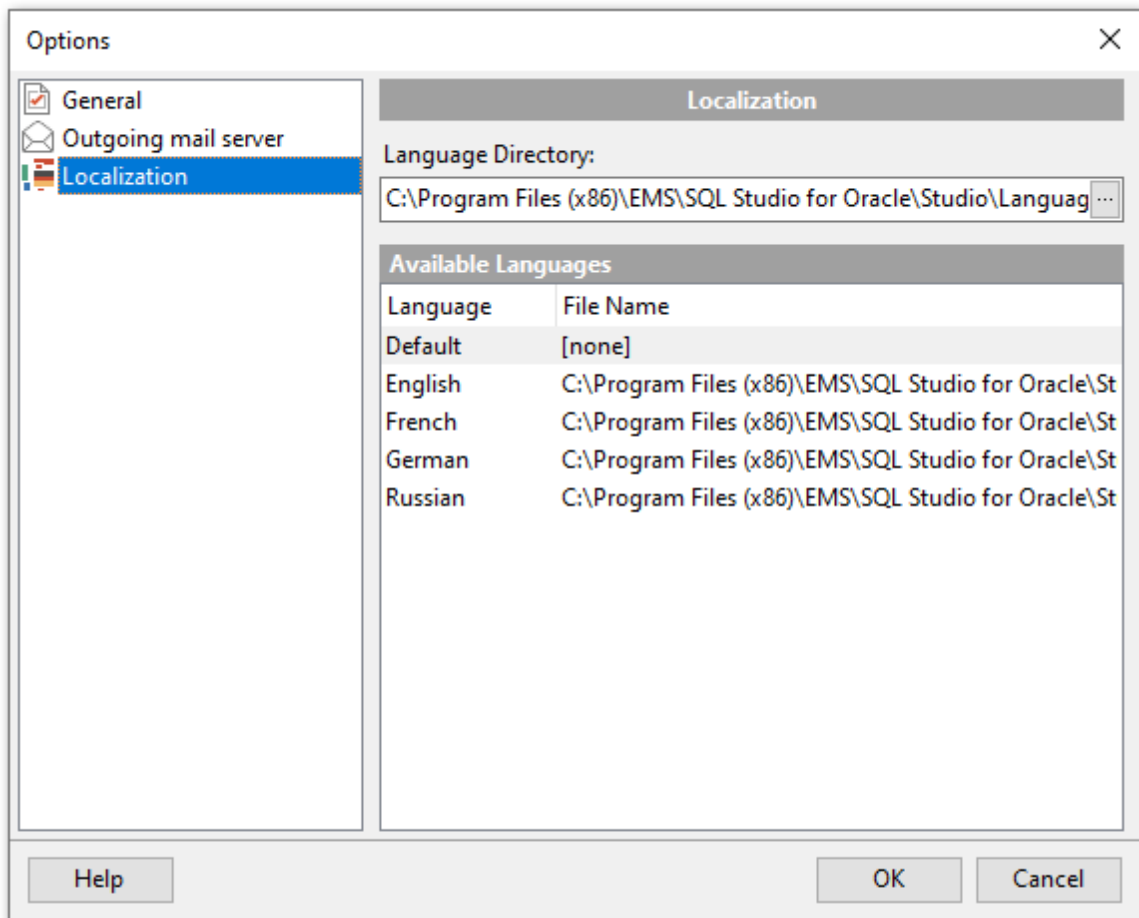
Choose the encryption method: *None*, *SSL/TLS*, *STARTTLS*.

Click the **Test** button to send a test message and verify that the server settings are correct.



6.3 Localization

If you did not select the program interface language when you started **SQL Management Studio for Oracle** [for the first time](#), or if you have decided to change the language settings, use the **Options** | **Environment Options** main menu item.



The **Localization** section of the **Options** dialog is provided for managing the localization files of **SQL Management Studio for Oracle**.

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.

Language Directory

Specify the directory where the *.lng files are stored by default.

Available Languages

Lists all the languages available for localization and the corresponding *.lng files.

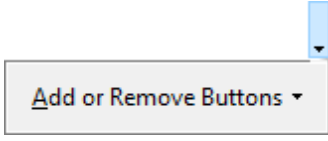
See also:[Customizing menus and toolbars](#)[Setting agent options](#)

6.4 Customizing menus and toolbars

You can customize the Main toolbar and the DB Explorer toolbar.

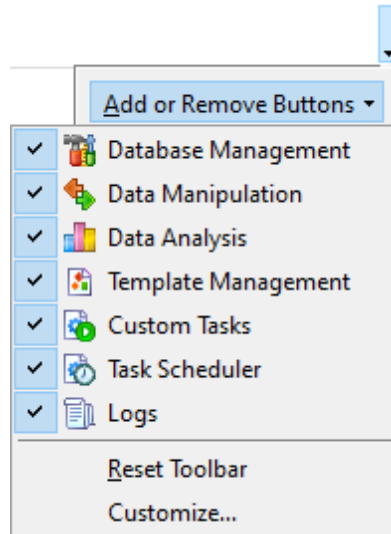
To do this, click the down-arrow button at the right-side of any toolbar, then click **Add**

or Remove Buttons

A screenshot of a toolbar with a dropdown arrow on the right. The dropdown menu is open, showing the text 'Add or Remove Buttons' with a small downward arrow to its right.

Add or Remove Buttons ▾

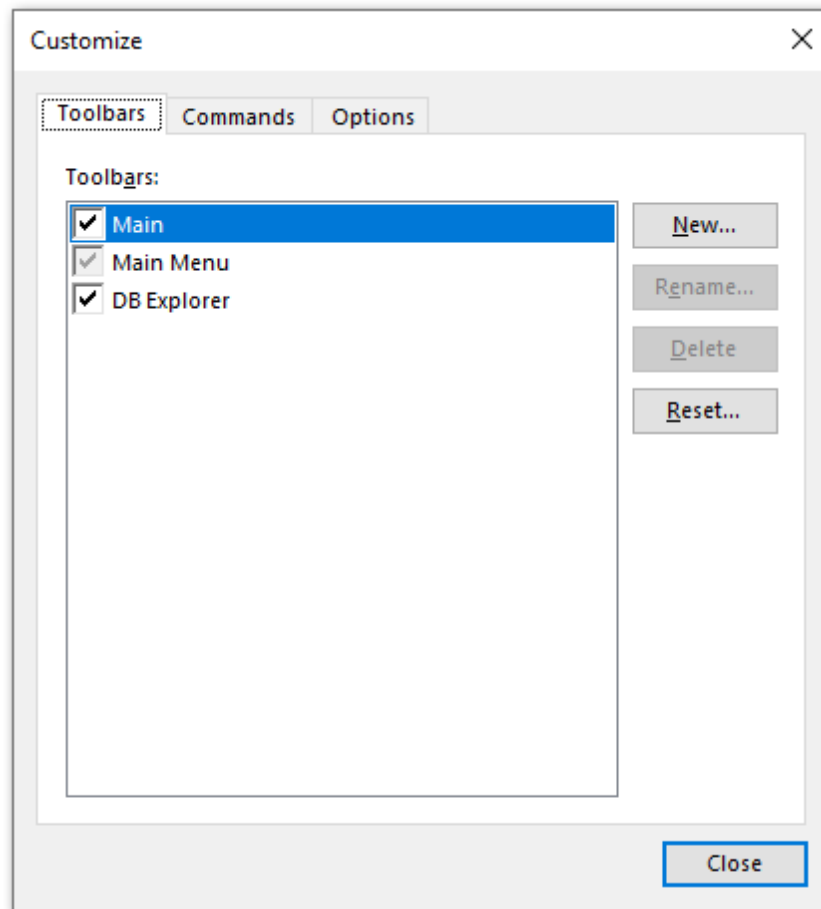
. In the pop-up window, choose which buttons to display on the toolbar.



By clicking **Customize...**, you can also call the **Customize Toolbars** window, which allows you to select the buttons displayed on the SQL Management Studio for Oracle toolbars and change their positions.

To restore the selected toolbar to its default settings, click the **Reset Toolbar** button.

Toolbars



This tab allows you to create, edit, delete and reset toolbars. Click a box near the toolbar name to show or hide the toolbar.

New

Adds a new toolbar to the toolbar list and to the parent window.

Rename

Renames a user-created toolbar.

Delete

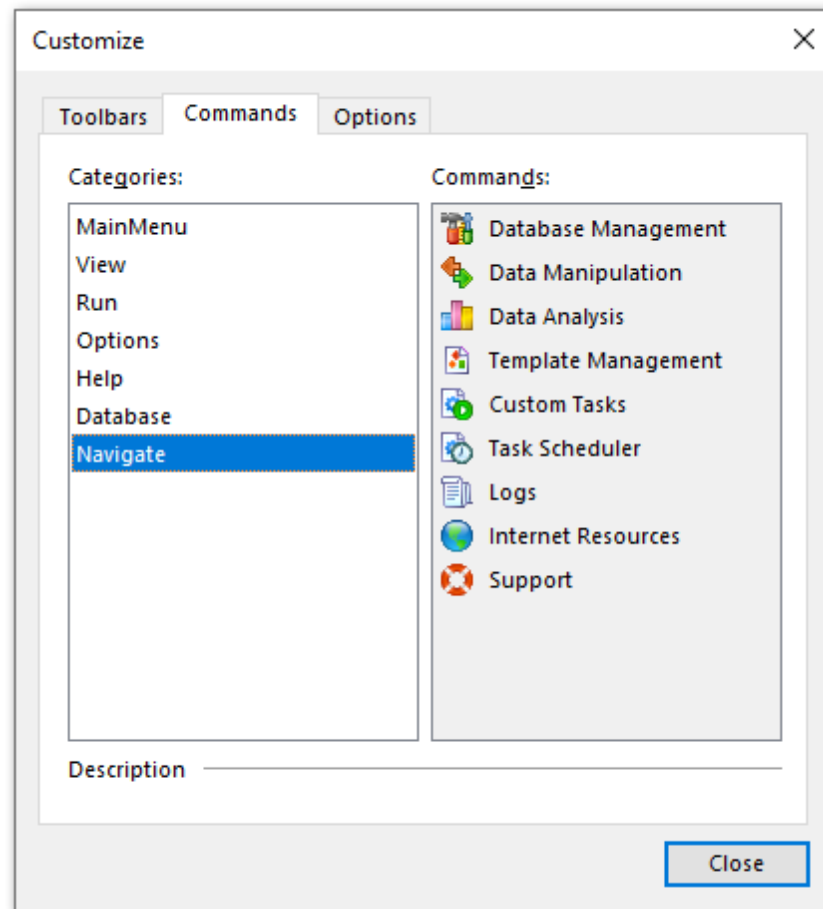
Deletes a user-created toolbar.

Reset

Restores the selected toolbar to its default settings.

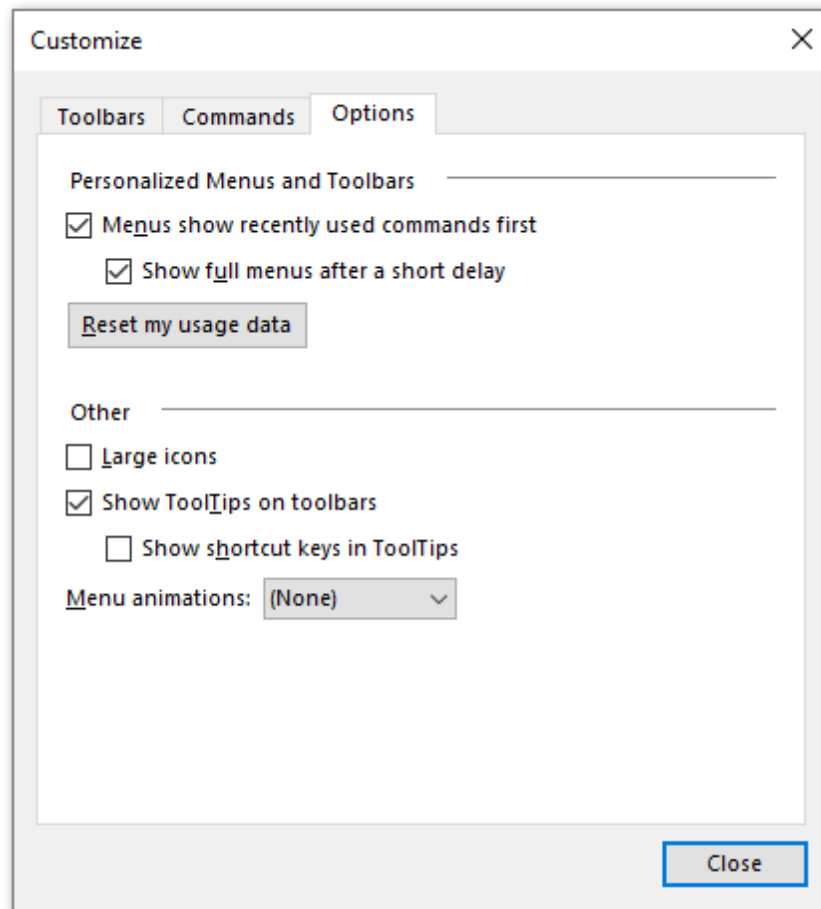
Note that any toolbar can be moved and docked to any side of SQL Studio window which is convenient for you.

Commands



This tab allows you to view the list of all the commands available within toolbars of the parent window. Selecting a category in the **Categories** list box displays the commands of that category (e.g. 'Register Database' or 'Unregister Database') in the **Commands** list box. You can pick a command and drag it onto any parent window toolbar to create a button for that command.

Options

**Menus show recently used commands first**

With this option on, the parent window menus drop down showing only several items available that have been used recently. To display full menus unselect this option.

Show full menus after a short delay

This option is available only if **Menus show recently used commands first** is enabled. It displays full menus after a few seconds of showing only recent items.

Reset my usage data

Resets the lists of recently used commands in the toolbars and menus.

Large Icons

Displays larger icons on the parent window toolbars.

Show ToolTips on toolbars

Displays navigation tips for toolbar buttons.

Show shortcut keys in ToolTips

Shows shortcuts in button tips for faster activation of the corresponding commands.

Menu animations

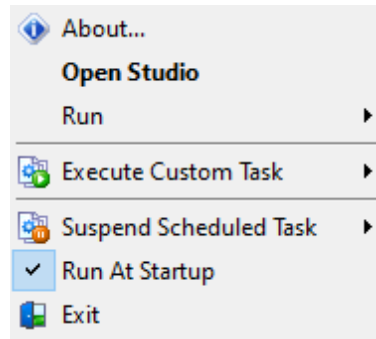
Select how menus appear in the parent window (*None, Random, Unfold, Slide, Fade*).

See also:[Selecting language](#)[Setting agent options](#)

6.5 Setting agent options

The **Agent options** menu allows you to perform various tasks available in SQL Management Studio for Oracle and specify SQL Studio Agent options.

To call the menu, right-click the **Agent** icon in the system tray area.



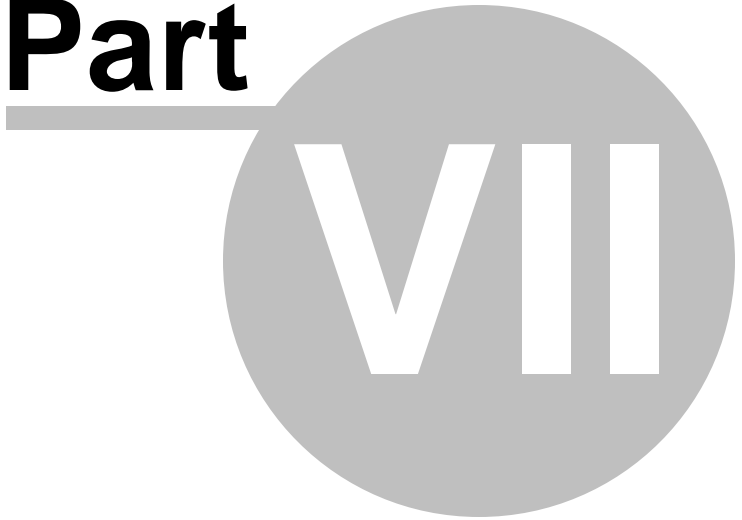
Using the **Agent options** menu and its submenus you can call the [About](#) dialog, open the main window of SQL Management Studio for Oracle, run a utility for [database management and data manipulation](#), execute a [custom task](#), suspend a [scheduled task](#), or specify running the Agent at Windows startup.

See also:

[Selecting language](#)

[Customizing menus and toolbars](#)

Part



VII

7 Appendix

7.1 Using templates

SQL Management Studio for Oracle provides the ability to use templates for your convenience.

Instead of performing a long chain of routine steps every time you can save all the options of the wizard for future use as a template file. Select the **Templates | Save Template** drop-down menu item, specify the template file name and set an optional comment for it.

The next time you start the wizard, you can load the template by selecting the **Templates | Load Template** drop-down menu item.

7.2 Supported file formats

● MS Excel 97-2003

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

● MS Access 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 contemporary e-table format used by Microsoft® Excel (*.xls). The result files are fully compatible with Microsoft® Excel 2007.

● **MS Access**

A Microsoft® Access (*.accdb) database file that stores users data in tables.

● **MS Word**

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

● **ODF Spreadsheets**

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

● **ODF text**

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

7.3 Sorting, Grouping, Filtering

Sorting

To sort data, click a column header to sort the column values in ascending or descending order. When sorting is applied to a column, an arrow icon appears to the right of its title.



Grouping

When grouping by a column is applied, all records are displayed as subnodes under the grouping row as displayed on the screenshot below. To apply grouping, drag the column header to the gray area at the top.

If necessary, you can group data by two or more columns. In this case column headers are displayed hierarchically, and data are grouped by these columns in the order the column headers appear in the **Group by** area.


State	Task Name	Last Result	Next Run Date
Start Date : 13.08.2025 12:00:00			
Last Run Date : 13.08.2025 12:00:00			
Ready	Export	Successful	13.08.2025 13:00:00
Start Date : 13.08.2025 12:30:00			
Last Run Date : Unknown			
Ready	Export_Employee	Unknown	13.08.2025 12:30:00

To reverse grouping, drag the column header back.

The **Group by** area context menu allows you to perform:  **Full Expand** and  **Full Collapse**.

Filtering

It is possible to make quick filtering by a specific value, or by *blank/non-blank* field criteria.

To activate quick filter, press the button  in the upper-right corner of the column header.

To apply manually defined conditions, use the *Custom* item in the drop-down list.

Custom Filter

Show rows where:

Start Date _____

Is greater than 20.05.2025 0:00:00

AND OR

Is less than 30.05.2025 0:00:00

OK Cancel

Select a logical expression from the drop-down lists on the left and define values in the fields on the right. Use the '_' character to represent any single symbol, and use the '%' character to represent any series of symbols in the condition string. The logical relationship between these conditions is defined using the *And*/ *Or* options.

7.4 Format specifiers

Date/Time format

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.

ddddddd

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.

Credits

Software Developers:

Alexey Butalov

Alex Paclin

Alexander Zhiltsov

Dmitry Goldobin

Dmitry Schastlivtsev

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Team Coordinators:

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Alexander Chelyadin

Roman Tkachenko