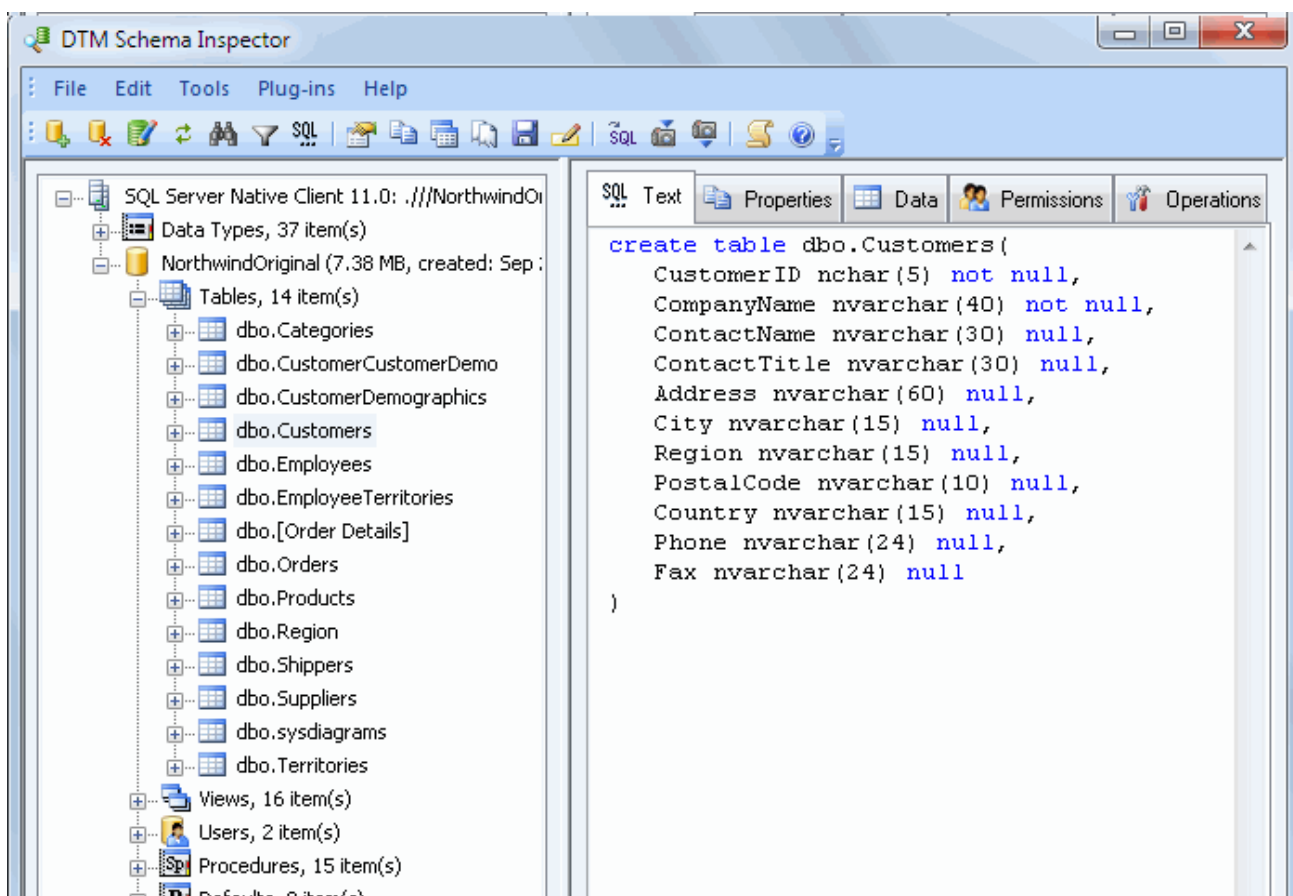


DTM Schema Inspector is a set of database schema management tools that let you work with database schemas more effectively. The Schema Inspector allows you to:

- access database schema information for various data sources simultaneously.
- create, save, load and view schema snapshots.
- view and export texts for database objects.
- view properties of the objects.
- observe and export tables' and views' data (text, SQL, XML, HTML, Microsoft Excel).
- export database schema as a set of the SQL statements for the data source or selected database.
- search database objects by name, type, database name and objects text.
- filtering options for database object trees (by name, type, database name or objects text).
- drop and rename database objects, enable/disable triggers.
- view access rights for tables, columns and views.

The software product allows the user to view lists of

- tables with indexes, primary and foreign keys.
- access rights for tables and columns.
- system tables.
- views or queries.
- synonyms.
- users (for MS SQL, Sybase and Oracle data sources).
- databases (for MS SQL and Sybase data sources).
- stored procedures
- extended stored procedures (for MS SQL Server).
- triggers (MS SQL, Sybase, Oracle, and Interbase).
- data types.
- defaults (for MS SQL and Sybase).
- rules (for MS SQL and Sybase data sources).
- roles and server roles (for MS SQL Server).
- type (insert, update, etc) and status (enabled or disabled) of the triggers (MS SQL Server and Oracle).





Quick Start: [how to connect?](#)

There are five ways to connect to a database:

1. [Direct connection](#)
2. Connection to [desktop files](#)
3. [Data source](#) with ODBC, IDAPI or Oracle Call Interface (OCI)
4. [DSN File](#) connection
5. [OLE DB](#) connection

In all modes the "Test" and "Information" buttons, as well as tools for working with connection [profiles](#) are available. "Test" button allows you to check information you entered and/or data source (or alias) configuration.

See also:

- Troubleshooting [guide](#)
- Connection [information](#)
- Connection [profiles](#)

## Connection Quick Start Guide

Database	How to connect
MS SQL Server	Enter or select server name at the <a href="#">direct connection</a> panel
Local SQL Server Express	Enter .\SQLEXPRESS as server name at the <a href="#">direct connection</a> panel
Oracle	1) Switch to <a href="#">data sources</a> mode 2) select OCI as "Interface" 3) select your service name from data source drop-down menu
DB2	Use <a href="#">direct connection</a> panel or Use predefined <a href="#">ODBC_DSN</a> for custom connection settings
MySQL	<b>Install ODBC driver for MySQL from <a href="http://www.mysql.org">www.mysql.org</a></b> Use <a href="#">direct connection</a> panel or Use predefined <a href="#">ODBC_DSN</a> for custom connection settings
PostgreSQL	Use <a href="#">direct connection</a> panel or Use predefined <a href="#">ODBC_DSN</a> for custom connection settings
Interbase/Firebird	<b>Install ODBC driver</b> Use <a href="#">direct connection</a> panel or Use predefined <a href="#">ODBC_DSN</a> for custom connection settings
Microsoft Access	1) Switch to " <a href="#">Desktop File</a> " panel 2) Select "Access" as file type, enter or select file name
Microsoft Excel	1) Switch to " <a href="#">Desktop File</a> " panel 2) Select "Excel" as file type, enter or select file name
<i>Another database</i>	1) Install ODBC driver for your database system 2) Create ODBC data source name using Windows ODBC Administrator 3) Switch to <a href="#">data sources</a> mode 4) select your data source from drop down menu

## Direct Connection

The direct connection method allows you to connect to most popular databases ([MS SQL Server](#), [Oracle](#), [Interbase/Firebird](#), [MySQL](#), [PostgreSQL](#) and [DB2](#)).

Enter the server name and the database name, if required. The user name and password are optional. Their necessity depends on the settings of your database. The owner name (schema) is optional too. The list of visible database objects depends on the choice of the owner. If the owner is empty, you will access all objects. There is important that schema/owner name is case sensitive.

If you do not find the required database type in the list or cannot connect directly, use a connection through the predefined data source. If DBMS is in the list, but unavailable, it means that either the required ODBC driver is not installed or it is not configured properly. During its use, the program stores the entered values of server names, users and owners. You can select a value from the stored list using the corresponding combo box. For some DBMS types (MS SQL, for example), the program can fill the list of available databases. Use the button with two arrows for this purpose.

Direct Database Connections to most popular databases

Microsoft SQL Server Note: If you do not find the required database type in the list or cannot connect directly, use a connection through the predefined Data Source.

Oracle Database

MySQL Server DTM-XP\SQLEXPRESS

Interbase/Firebird  Windows Authentication (trusted connection)

IBM DB2 User (login) Admin

PostgreSQL Password

Database Northwind

Owner/schema dbo

Note Express @XP

## DBMS-specific connection options

### Microsoft SQL Server

- "(local)", empty or "." server name means local server
- use <server name>\<instance name> syntax to identify instance. Example: .\SQLEXPRESS means SQL Express at the local system

### Oracle

Use connect string for the Oracle Server that you want to access as a Server name.

Important: it is strongly recommended to use native Oracle Call Interface ([OCI](#)) instead of direct connection.

### Interbase and Firebird

Examples:

- Server: **localhost** and Database **c:\interbase\myDb.fdb** - connect to specified DB on local system.
- Server: **172.17.2.10/3051** and Database **/usr/local/db/myDb.fdb** - connect to specified server with alternate port 3051 on remote system 172.17.2.10

### MySQL

- Use **localhost** for local MySQL
- `example.com;port=3306` means MySQL at example.com on 3306 port

## DB2

**ServerName;port=5000;protocol=TCPIP** as a server name means connect to ServerName, use 5000 port and TCP/IP protocol.

## PostgreSQL

**ServerName** as a server name means connect to ServerName, use 5432 port and TCP/IP protocol. Database name is required. localhost as a server name is acceptable. To specify custom port you should add `";port=NNNN"` string to server name.

**server\_name\_or\_ip-address;port=5432;DATABASE=dbname**

## Desktop Files

The second way is designed for connecting to desktop data files. Select the required format and specify the file name or the directory where the data is located. Other parameters are optional.

Connections to Desktop Data File

Text file (\*.txt, \*.csv)    Format : CustomDelimiter    ANSI    Delimiter : |

Microsoft Access file (\*.mdb, \*.accdb)     use Microsoft Jet (ODBC by default)

dBase, FoxBase or FoxPro file (\*.dbf)

Microsoft Excel file (\*.xls, \*.xlsx, \*.xlsb)

Paradox file (\*.db)

FoxPro database container (\*.dbc)

SQLite database

Location: D:\Projects And Files\tickets.mdb    Browse...

Authentication information, optional :     Read Only mode

User / Login:

Password:     Note: Tickets

## Predefined data sources: ODBC, IDAPI, Oracle Call Interface

A connection with the use of a data source is the most universal. You can select ODBC, IDAPI or OCI (if installed) interface and the preconfigured data source name. In this case, other options are similar to those of a direct connection. The "Manage" button allows you to get access to the external configuration utility if it is available. When you want to access the tables belonging to the single database schema (or owner), you should fill the "owner" entry; otherwise, all tables will be accessed.

Connections to existing and configured data sources

Interface	<input type="text" value="ODBC"/>	<input type="checkbox"/> Manual commit
Data source	<input type="text" value="localserver"/>	<input type="button" value="Manage..."/>
User (login)	<input type="text" value="sa"/>	
Password	<input type="text" value="xxxxxx"/>	
Database	<input type="text" value="Northwind"/>	
Owner	<input type="text" value="dbo"/>	
Note	<input type="text" value="Local SQL Server"/>	



## DSN File

The fourth way is using a DSN file. For this case, just select the file name with DSN definition.

Connections to existing and configured file DSN

File DSN name

Note

## OLE DB connection

Use 'Configure' button to specify connection information. Password and owner fields are optional.

Connections using OLE DB providers

Connection properties Configure...

```
Provider=SQLOLEDB.1;  
Persist Security Info=False;  
User ID=sa;  
Initial Catalog=Northwind;  
Data Source=DTM-ACER2;  
Use Procedure for Prepare=1;  
Auto Translate=True;  
Packet Size=4096;
```

Password

Owner

Note

## Connection Profiles

Connection profile helps you to save information about your connection (interface, data source or alias name, user name (login), password and database name, etc) and get access it by the one click.

Please fill connection properties and press "Add as new" to add a new profile. To modify the profile you should select it from the list at the top of the window, modify properties and press "Update". "Delete" button works when you select the profile to be deleted in the list.

"Save" and "Load" buttons allow you to save profiles to the disk file or load them. The "Export one" button helps to save single currently selected profile.

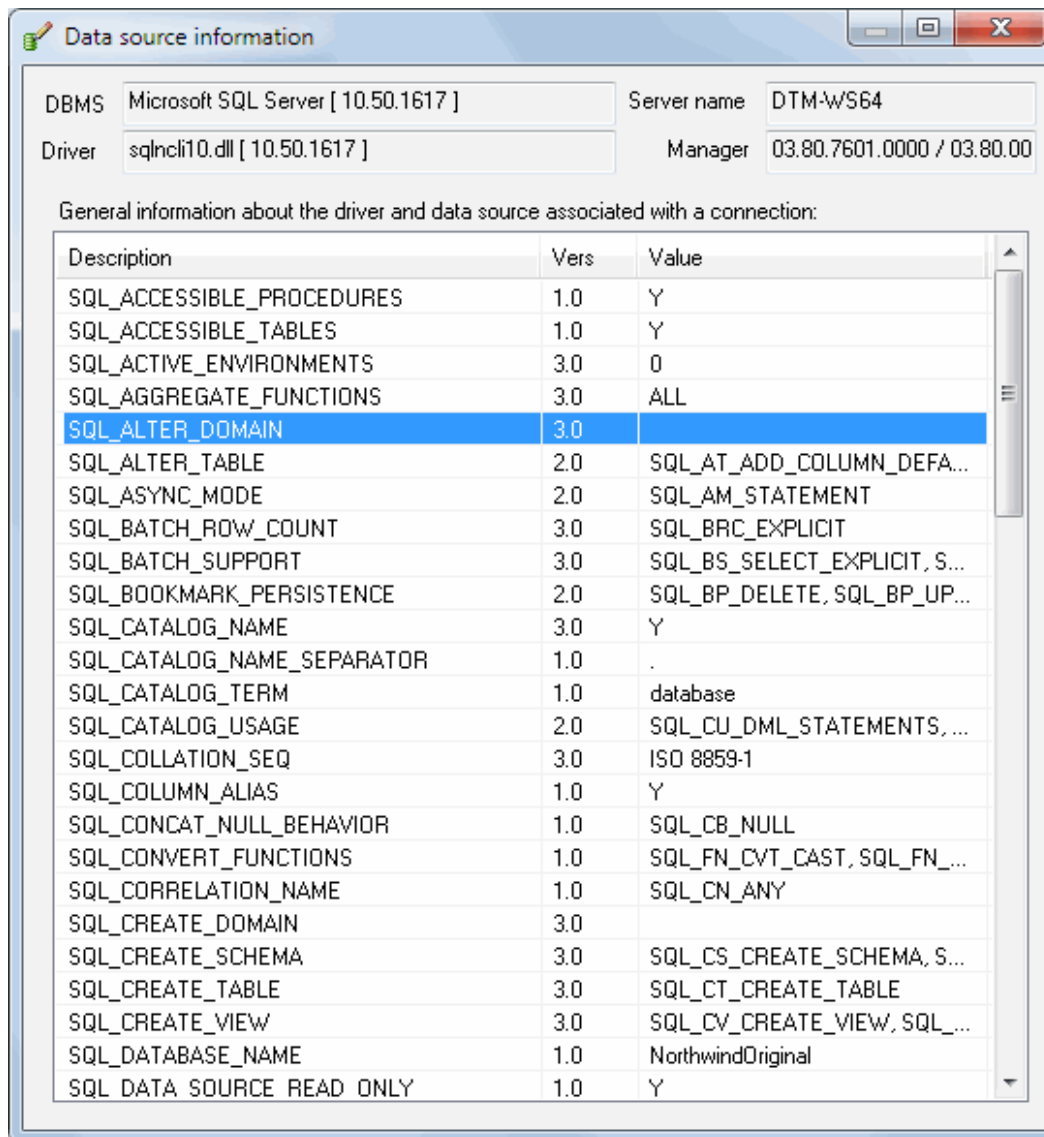
Important: all profiles are shared between all installed DTM soft products. That means once created profile can be used with any tool. At the other side if you remove the profile from the list you can't use it with DTM soft's products anymore.

Mode	Interface	Source or Server	User	Owner	Database	Note
Direct	ODBC	.			Northwind	Local server
Direct	ODBC	DTM-XP	sa		AdventureWorks	
Direct	ODBC	.		dbo	NorthwindOriginal	Local Read Only DB
DSN	ODBC	Saramdb				SaraMDB
DSN	ODBC	test_new				Test MDB
Desktop	ODBC	ACCESS				Test MDB
DSN	ODBC	test_old				Test MDB
Direct	ODBC	.		dbo		
Direct	ODBC	.		dbo		2
DSN	OCI	ORCL	OE			ORCL/OE
DSN	ODBC	ORCL_ODBC	OE	OE		ORCL/ODBC
DSN	OCI	10G	OE			Oracle 10g (VM)

Buttons: Add as New, Update profile, Remove profile, Export One..., Save..., Load...

## Connection Information

The program provides detailed database, connection and driver information and properties. The "Information" button at the connect window allows you to view it.



The screenshot shows a window titled "Data source information" with the following fields:

- DBMS: Microsoft SQL Server [ 10.50.1617 ]
- Server name: DTM-WS64
- Driver: sqlncli10.dll [ 10.50.1617 ]
- Manager: 03.80.7601.0000 / 03.80.00

General information about the driver and data source associated with a connection:

Description	Vers	Value
SQL_ACCESSIBLE_PROCEDURES	1.0	Y
SQL_ACCESSIBLE_TABLES	1.0	Y
SQL_ACTIVE_ENVIRONMENTS	3.0	0
SQL_AGGREGATE_FUNCTIONS	3.0	ALL
SQL_ALTER_DOMAIN	3.0	
SQL_ALTER_TABLE	2.0	SQL_AT_ADD_COLUMN_DEFA...
SQL_ASYNC_MODE	2.0	SQL_AM_STATEMENT
SQL_BATCH_ROW_COUNT	3.0	SQL_BRC_EXPLICIT
SQL_BATCH_SUPPORT	3.0	SQL_BS_SELECT_EXPLICIT, S...
SQL_BOOKMARK_PERSISTENCE	2.0	SQL_BP_DELETE, SQL_BP_UP...
SQL_CATALOG_NAME	3.0	Y
SQL_CATALOG_NAME_SEPARATOR	1.0	.
SQL_CATALOG_TERM	1.0	database
SQL_CATALOG_USAGE	2.0	SQL_CU_DML_STATEMENTS, ...
SQL_COLLATION_SEQ	3.0	ISO 8859-1
SQL_COLUMN_ALIAS	1.0	Y
SQL_CONCAT_NULL_BEHAVIOR	1.0	SQL_CB_NULL
SQL_CONVERT_FUNCTIONS	1.0	SQL_FN_CVT_CAST, SQL_FN_...
SQL_CORRELATION_NAME	1.0	SQL_CN_ANY
SQL_CREATE_DOMAIN	3.0	
SQL_CREATE_SCHEMA	3.0	SQL_CS_CREATE_SCHEMA, S...
SQL_CREATE_TABLE	3.0	SQL_CT_CREATE_TABLE
SQL_CREATE_VIEW	3.0	SQL_CV_CREATE_VIEW, SQL_...
SQL_DATABASE_NAME	1.0	NorthwindOriginal
SQL DATA SOURCE READ ONLY	1.0	Y

## Troubleshooting Guide

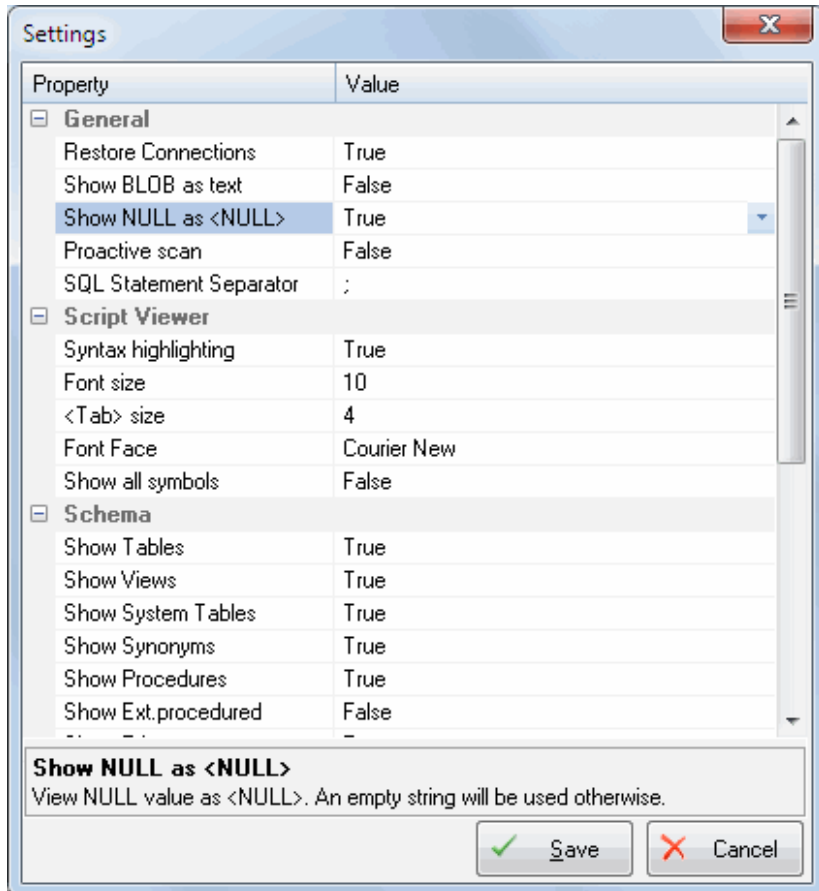
Problem description	Possible reason	Solutions
Required database type not present in the list at Direct Connection and Desktop Connection pages		Switch to "data source" connection mode and select data source from the list or configure new one with "Manage" button.
Required format is in the <a href="#">direct connection</a> list, but not available (disabled).	ODBC driver for your database does not installed or not configured properly.	Install required driver. If it is already present in the system, please contact our <a href="#">support staff</a> .
Errors during direct connection.	Compatibility problems.	Try to create data source for your database connection.
Login error for correct user name and password.	Read-only desktop data file.	Try to change file mode to 'read and write'.
I can't see relationships, defaults, etc in my Access Database.	Access interface.	Try to switch on "Use Microsoft Jet" check box at the "Desktop File" page of the Connect Window.

## Program settings

The program has some settings and options to make your work more comfortable. Don't forget to press "Ok" button in "Settings" dialog to save the settings you chose.

The most important settings are:

1. Preview binary large objects (BLOBs) as text (in hexadecimal mode by default).
2. "View NULL as <NULL>" option allows selecting of the visualization mode for NULL values between displaying the special sign <NULL> and just emptying the cell.
3. You can turn the syntax highlighting for keywords, comments and strings (constants) on and off.
4. Change the size and the font face for text view window as well as "Tab" size.

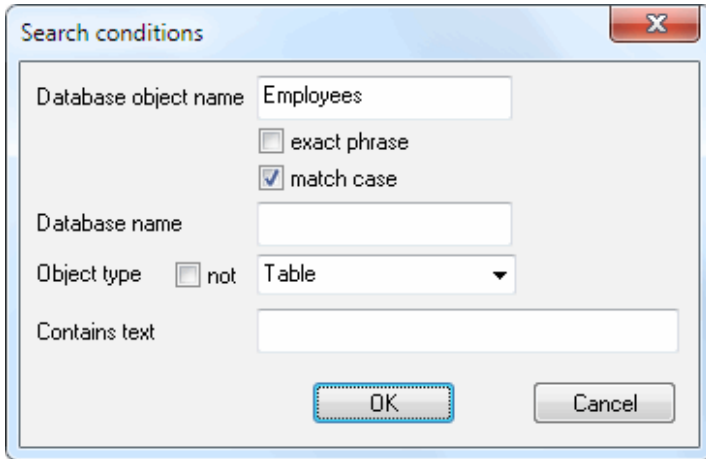


The group of options named "Schema" lets you specify types of objects you can view in the object tree. By default, "access rights", "server roles" and "extended stored procedures" are turned off.

## Database objects filters

The schema browser allows you to set filters for the objects displayed in a tree-like manner. Filters can have the same parameters as the [search](#).

Be careful with filters, you can set such a filter that there won't be any objects displayed. Should this happen, exit the program and restart it - the product does not save filters upon exiting.



Search conditions

Database object name: Employees

exact phrase

match case

Database name:

Object type:  not Table

Contains text:

OK Cancel

Note: the filter is not applicable to collections (node items) and databases (Microsoft SQL Server only).

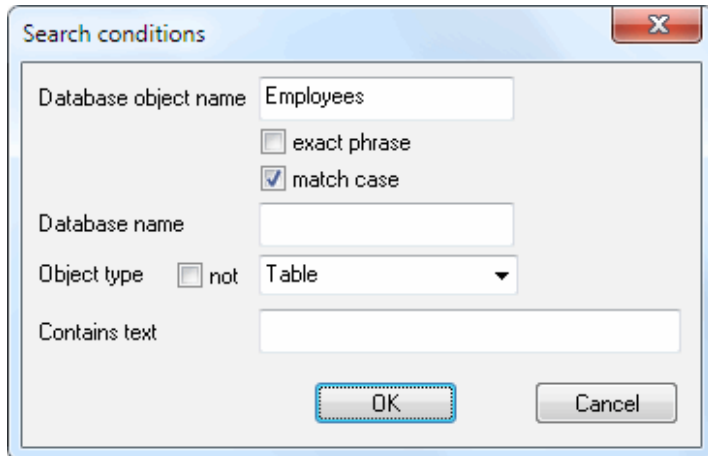
## Search for database object

The "**search database object**" feature helps you to find any object in the database. You may use following search criteria or combination thereof:

- Object name or part of the name.
- A database that contains the object (only for MS SQL and SYBASE databases).
- Object type same as TABLE, VIEW, PROCEDURE, etc.
- Text fragment of the object definition. For example, a text of the stored procedure .

Important: searching through the object text can considerably slow down the performance because the program extracts all texts of all the scanned objects from the database.

Please remember, pressing **Ctrl-F** will help you to access the search dialog faster. Press **F3** to run next search with current criteria.



The screenshot shows a dialog box titled "Search conditions" with a close button (X) in the top right corner. The dialog contains the following fields and options:

- Database object name:** A text input field containing "Employees".
- exact phrase:** An unchecked checkbox.
- match case:** A checked checkbox.
- Database name:** An empty text input field.
- Object type:** A dropdown menu with "Table" selected. To its left is an unchecked checkbox labeled "not".
- Contains text:** An empty text input field.
- Buttons:** "OK" and "Cancel" buttons at the bottom.

"Search" dialog saves the position of the window and entered data either for the current session or between sessions.





## Database objects tree

The object tree in the left part of the window can contain any number of database schemas. Use the "[Add data source](#)" button (or press Ctrl+A) on the program toolbar or select the corresponding item from the File menu to add a new database schema to the tree. You can remove schemata that you do not need any more from the tree. To do that, select the root of the schema you want to remove in the tree and select the "Remove from tree" item (or press Ctrl+D) from the File menu.

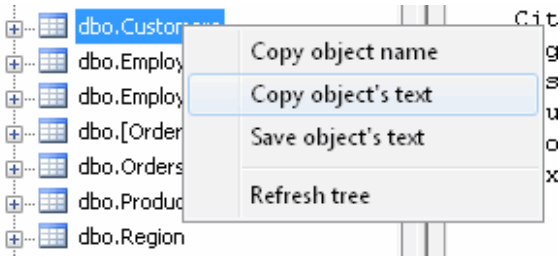
You can refresh the tree content by using the corresponding button on the toolbar. Remember that the schema gets to the end of the tree when the tree is refreshed.

The program automatically saves the connection information (the interface type, the data source name, the user name (login) and password) for data sources, if you set the option "Save/restore active connections" in the [Settings](#) window. In that case, when the program is launched, it automatically restores the connection with the specified data sources.

See also: [operations](#)

## Operations with objects

There is a picture of local menu accessed by the right click on the tree item.

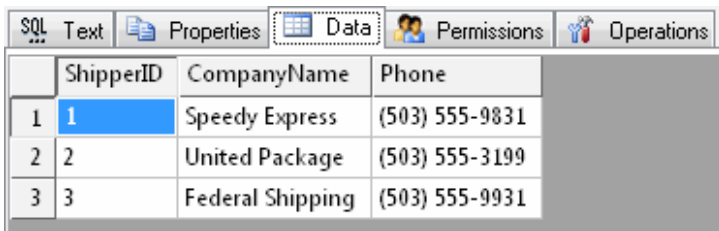


Using this menu you can:

- Copy name of the selected item onto the clipboard.
- Copy text of the selected item onto the clipboard.
- Save the text of the selected item to SQL file.

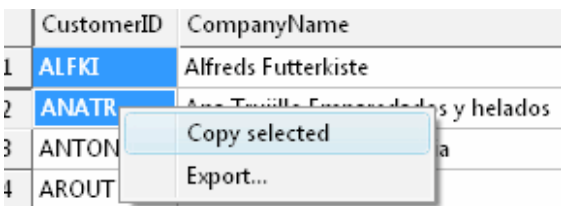
You can view the content of such objects as views (queries) and tables using "Data" tab. The program allows you to export the data into various formats (text, SQL, HTML, XML, RTF or Microsoft Excel) from that data grid.

Placing the mouse cursor over the column header will tell You the type of data stored in this field.



	ShipperID	CompanyName	Phone
1	1	Speedy Express	(503) 555-9831
2	2	United Package	(503) 555-3199
3	3	Federal Shipping	(503) 555-9931

There is a picture of context menu accessed by the right click inside the data grid window.

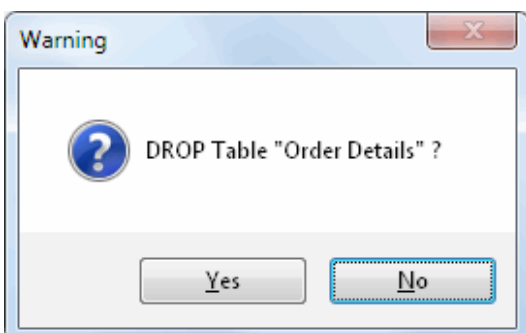


	CustomerID	CompanyName
1	ALFKI	Alfreds Futterkiste
2	ANATR	Ana Trujillo Emparedados y helados
3	ANTON	Antonio
4	AROUT	Arouter

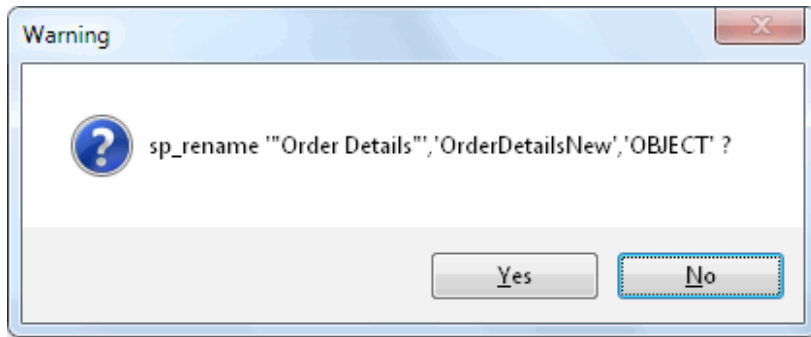
Moreover, you can use "Operations" tab at the right pane of the program window. Using it you can:

- drop the current database item
- rename object
- enable or disable trigger (for Microsoft SQL Server and Oracle data sources)

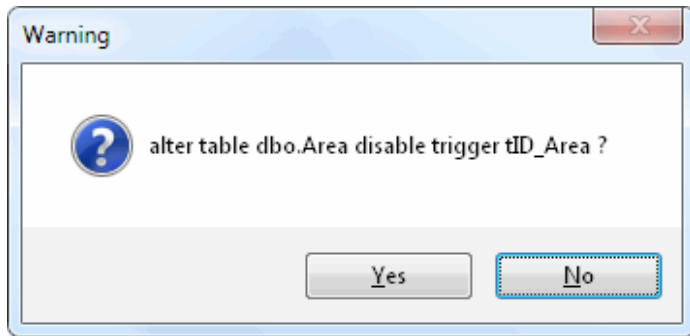
The program can remove many object types (e.g.: tables, views or triggers) by generating the corresponding DROP statement.



You can rename few types of the objects for MS SQL Server and Oracle Server.



You can enable and disable triggers for Microsoft SQL Server and Oracle Server.



See also: "[objects tree](#)"



## Export schema

The software product allows the user to export currently selected database schema to a set of SQL statements. You can use the corresponding toolbar button or "Export schema" item in Tools menu of the DTM Schema Inspector.

Also, you can export table rows as a set of the INSERT statements. See "export" menu item in the data grid context menu (right button mouse click).

[DTM Schema Inspector](#) is a true Win32 application, known to be compatible with the following operation systems:

- Windows XP, 32-bit version of DTM Schema Inspector only
- Windows 2003 and 2008 Server family
- Windows Vista
- Windows 7

You'll need 32 -bit ODBC, OLE DB, IDAPI or OCI (Oracle Call Interface) interface to manage schema, view table's data and execute SQL statements.

### Hardware requirements

- **RAM:** 128 MB
- **Hard Disk:** at least 5 MB of free space required for installation
- **Display:** 800 x 600 or higher resolution, 256 colors

### Compatibility note

Considering the fact that there may be some misinterpretations of the unified [DBMS](#) interface specification, the problems may arise with some exotic ODBC or IDAPI drivers. For example, missing data types, garbled non-standard data type support etc. Please contact our [technical support](#) when problems of this nature arise. When you contact technical support, you should be prepared to provide the following information:

- DTM Schema Inspector version (you can find this information from About menu item of Help menu).
- Type and version of the ODBC (or IDAPI) driver.
- DBMS version and operating system version (including service pack version, if applicable).
- DTM Schema Inspector Log file.
- A description of what you do before the problem occurs.
- Error messages you see when the problem occurs.
- Your name, company name and how to contact you.

### Limitations

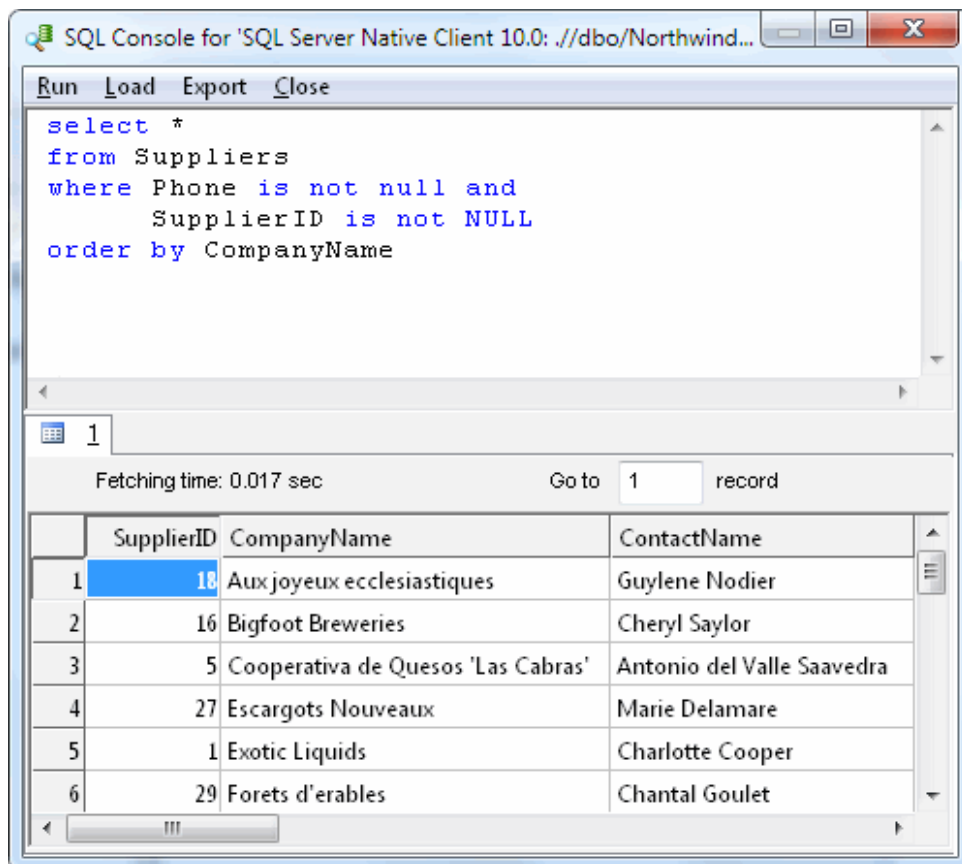
1. Maximum column width in the results view is 512 characters.
2. Export for large binary objects is not supported.

## SQL Console

The tool has a special window where you can specify and execute any SQL statements. You can copy the results of executing a statement onto the clipboard or export it into various formats like text, SQL, HTML, XML or Microsoft Excel. Placing the mouse cursor over the column header will show the type of data stored in this field.

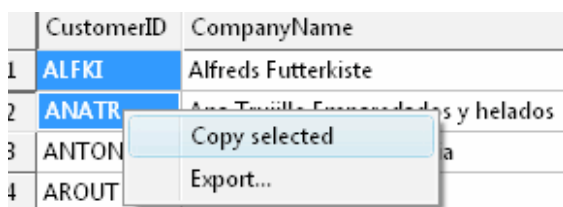
Important: the SQL console does not show any warning before data deletion or modifying.

Note: SQL console shows only begins of large strings. Typically you can view up to 512 first symbols.



Menu item "Load" allows you to read SQL script from the external file.

There is a picture of local menu accessed by the right click inside the results window.

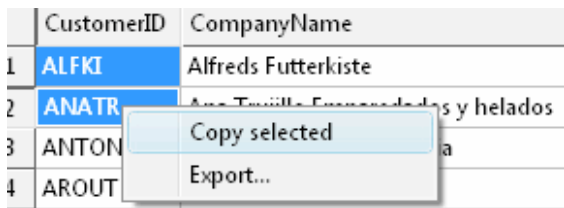


**Q:** What is the easiest way to place table data into MS Excel spreadsheet format?

**A:** Right click one the window with the table's data and select "Export". Select "Excel" as your export format.

**Q:** Are there easy ways to publish the table or view data on the Web?

**A:** Use HTML export feature. Right click on the window with the rows and select "Export". The program saves data in the very basic format, so we recommend you to employ some more powerful HTML authoring tool to edit the data afterwards.



The screenshot shows a table with two columns: 'CustomerID' and 'CompanyName'. The first row is highlighted in blue. A context menu is open over the second row, showing options 'Copy selected' and 'Export...'. The table data is as follows:

	CustomerID	CompanyName
1	ALFKI	Alfreds Futterkiste
2	ANATR	Ana Trujillo Emparedados y helados
3	ANTON	Antonio
4	AROUT	Arout

### Tips. Did you know...

You can use right mouse button to get access to the context menu in schema tree, data view, and other windows.

You can select rows, columns or set of cells in the results grid using left mouse button and drag.

You can view Binary Large Objects as binary or as hexadecimal. View "[Settings](#)" for more details...

The program can visualize NULL data values as empty strings or as "NULL" strings. See program [options](#) for detailed information...

**Hot Keys**

<b>Hotkey</b>	<b>Function or Option</b>
Ctrl+A	Add data source to the tree
Ctrl+D	Disconnect from data source
Ctrl+E	Editor SQL script for current object
Ctrl+F	Find object
Ctrl+L	View log file
Ctrl+R	Rescan database schema
Ctrl+S	Open SQL console
F1	Open help
F3	Find next object
F5	Run DTM Data Editor for currently selected connection
F7	Open <a href="#">settings</a> window
F8	Apply object <a href="#">filter</a>



**Q:** I cannot run the program and there is no error message. What should I do?

**A:** Check if you have all required files installed. Try to reinstall the program.

**Q:** The program detected the installed OCI, but displays an empty list of data sources. What should I do?

**A:** Perhaps, the file tnsnames.ora was not found. Either put that file in one of the folders given below or contact the technical support:

%ORACLE\_HOME%\net80\admin\tnsnames.ora or

%ORACLE\_HOME%\network\admin\tnsnames.ora

If you have encountered some unusual problem that is not listed here, feel free to contact our [technical support](#).



## How can I order DTM Schema Inspector software?

The software is available worldwide via the Internet. Secure online, mail/check and corporate purchase order options are available. For detailed information please click following link to open [order page](#) or copy <http://www.sqledit.com/si/order.html> to your web browser.

If you have any payment questions feel free to contact the DTM Schema Inspector technical support at [support@sqledit.com](mailto:support@sqledit.com)

[DTM SQL Editor](http://www.sqledit.com/editor) ([www.sqledit.com/editor](http://www.sqledit.com/editor)) is a set of powerful database management tools that allow you to achieve two goals - to have unified access to different types of databases and to have a set of solutions that makes processing your data easy. DTM SQL Editor gives database users, developers and administrators an ability to access different databases, whether desktop or client-server ones (provided you have ODBC driver installed). This is very convenient, since most organizations use several different types of databases installed and each stores data in different formats and with varying parameters. Having a program that can get data from various sources is often essential. Furthermore, in addition to letting you quickly switch between different data sources, DTM SQL Editor lets you see database schema and results of the query execution.

[DTM Migration Kit](http://www.sqledit.com/mk) ([www.sqledit.com/mk](http://www.sqledit.com/mk)) is a powerful yet simple data migration tool that comes in handy if you run multiple databases. Use it to import, export or migrate data between different data sources (ODBC, OLE DB, or Oracle Call Interface supported). The program is fully automatic and supports all popular database formats. Simple visual interface lets you set own transformation and flow control rules to give you added flexibility.

[DTM Schema Reporter](http://www.sqledit.com/sr) ([www.sqledit.com/sr](http://www.sqledit.com/sr)) is a reporting tool for database schema. The program creates reports in RTF, HTML, XML or plain text formats and supports all common database interfaces - ODBC, OLE DB, or even Oracle Call Interface. This utility helps technical writers and database administrators create a report of any complexity level within seconds. Also, you can alter table order in the report and manually add annotations to the individual tables.

[DTM Data Generator](http://www.sqledit.com/dg) ([www.sqledit.com/dg](http://www.sqledit.com/dg)) is a simple, powerful and fully customizable utility that generates data for database testing purposes. Currently, database developers and administrators often have to spend hours of dull work to create test data sets before examining database performance. This tool makes all this unnecessary by automatically creating database objects AND sets of SQL statements, if necessary.

[DTM Data Editor](http://www.sqledit.com/de) ([www.sqledit.com/de](http://www.sqledit.com/de)) is a data viewer and editor for database professionals who are tired of wasting their time on mundane tasks. The program uses form-based interface and works with any ODBC data source. SQL statements are generated automatically and can be modified later. For data that has foreign key - primary key relation, there are options to enter values manually or select them from a list, which is much faster.

[DTM DB Stress](http://www.sqledit.com/stress) ([www.sqledit.com/stress](http://www.sqledit.com/stress)) is a utility for stress testing the server parts of information systems and applications, as well as DBMSs and servers themselves. This tool allows you to create and configure a continuous set of requests to the server of the OLAP (query execution) and OLTP (adding, modifying and deleting data in the database) types. At the same time, the user can flexibly change both the number and the priority of this or that type of requests to a database or an application.

[DTM Data Modeler](http://www.sqledit.com/dm) ([www.sqledit.com/dm](http://www.sqledit.com/dm)) is a CASE tool for database developers that supports both forward and reverse engineering. It is an easy-to-use tool allowing you to work both with logical and physical data models in the form of an entity-relationship diagram. The product is intended for database architects and developers and works with data sources via the ODBC interface, which means compatibility with all modern DBMS. Along with basic model properties (sets of entities and relationships between them), the program allows you to create indexes and triggers on the physical level corresponding to the tables of the database that is modeled.

[DTM Data Scrubber](http://www.sqledit.com/scr) ([www.sqledit.com/scr](http://www.sqledit.com/scr)) is a set of intelligent tools for data verification (audit) and scrubbing (cleaning). Depending on user-defined rules and data properties, the program either creates a report about the actual state of affairs or performs database data correction.

[DTM Data Comparer](http://www.sqledit.com/dcmp) (www.sqledit.com/dcmp) is a visual tool for data compare and synchronization. The program successively views the contents of both tables basing on the order of ascending of unique key values and shows differences or creates synchronization script.

[DTM Schema Comparer](http://www.sqledit.com/scmp) (www.sqledit.com/scmp) is a tool for database schemas comparison and synchronization. The comparison process supports tables, views, indexes, triggers and stored procedures. The visual representation of database schemas as a tree makes the comparison process more comfortable.

[DTM Query Reporter](http://www.sqledit.com/qr) (www.sqledit.com/qr) is a reporting tool for database query. This utility helps technical writers, developers and database administrators create a report based on database query within seconds.

[DTM Schema Inspector](http://www.sqledit.com/si) (www.sqledit.com/si) is a database schema browsing and management tool that let you work with database schemas more effectively.

[DTM DB Event](http://www.sqledit.com/event) (www.sqledit.com/event) is a database monitoring and management tool. This utility allows the user to define a few situations (events). For each event the user can define what the program should do if the event is occur.

[DTM Flat File Generator](#). Easy to use tool that helps any developer or QA engineer to create test data file. It supports tab-delimited, CSV, fixed width and custom separated output files. The generator has powerful import and export file structure features.

[DTM Test XML Generator](#). The tool is powerful generator for XML documents with structure defined by user and random but realistic data. More than 30 predefined generators with powerful pattern engine. The rich import XML structure options are available.

[DTM Data Generator for Excel](#) is a tool for text Excel spreadsheet population. Easy to use interface based on predefined generators, rich value library and high performance.

[DTM Data Generator for JSON](#) produces JSON files with defined structure in a bulk manner. Fast and easy structure editor and smart import options helps the user to generate test set in a few clicks only.

[DTM Database Content Analyzer](#) is a statistical tool for database content. It collects a few dozens of most interesting data: database objects size, value frequency, clusters, etc. This tool replaces and extends "Statistics" report of obsolete versions DTM Schema Reporter.





## License Agreement (EULA)

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## **What differences between the demo and full versions of DTM Schema Inspector?**

### **General functions**

- Demo version replaces some objects text to DEMO.
- Demo version shows only top 6 rows of tables, views and synonyms.

### **Supplemental functions**

- SQL console partially replaces result values to DEMO string.

No other demo limitations are present except nag-screen at program shutdown.



## Program Installation

To run installation program:

- Open the windows Start menu and select "Run" item
- Select or enter installation file name and path (si.exe or si\_d.exe)\* and click OK

\* - professional and enterprise editions of the tool may have another suffix.

Notes:

- Please be sure that existing version of the tool is not running when you install a new version.
- We recommend to [uninstalling](#) old version of the DTM Schema Inspector before new version installation.
- Installation by administrator for another user is supported for most environments.



## Uninstall the Software

The Uninstall feature removes all installed DTM Schema Inspector components and all records in the Windows registry made by the installation script. You can uninstall this program by selecting the "**DTM Schema Inspector**" item in "**Add/Remove Programs Dialog**" in "**Control Panel**".

Another uninstallation way is to run "unins000.exe" from the product's folder directly.

**Important!** Uninstall feature of the program does not remove files and objects created by users such as configuration files, registry records etc.



## How to upgrade your copy of DTM Schema Inspector?

The user can refer to "Check for Update" features to get information about available updates.

Please contact our support staff at [support@sqledit.com](mailto:support@sqledit.com) to upgrade commercial version of the tool.

Demo version is available for [download](#) free of charge.

When you upgrade your copy of DTM Schema Inspector please send us the following information:

- You name, company name and how to contact you
- Payment information (at least "ORDER No" and "Date")

If you have some question or unusual problem feel free to contact the DTM Schema Inspector technical support at [support@sqledit.com](mailto:support@sqledit.com)

When you contact technical support, you should be prepared to provide the following information:

- DTM Schema Inspector version (you can find this information from About menu item of Help menu).
- Type and version of the ODBC or IDAPI driver or OLE DB provider.
- DBMS version and operating system version (including service pack version, if applicable).
- DTM Schema Inspector Log file.
- A description of what you do before the problem occurs.
- Error messages you see when the problem occurs.
- Your name, company name and how to contact you.

See Also: [log\\_file](#)



## SQL Syntax Mapping Function

There are legacy or custom ODBC drivers with non-standard SQL syntax. Our software supports syntax mapping for ODBC connections. This function allows users to replace some SQL keywords to another.

For example, your data source requires QUIRY keyword instead of standard SELECT.

The syntax mapping uses text file with predefined name "syntax.map". It should be located in the same directory as the software binary files (executable and DLLs).

It contains one line per map\* :  
SELECT=QUERY

\* - ';' at the begin of the line means comment, extra spaces about '=' are not acceptable.



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**Database catalog** - The collection of system tables, tables that store metadata about that specific database.

**Database record** - one row in a table (table can be a result of SQL-query).

**Database schema** - logically connected, usually owner-based, set of DBMS objects (tables, views, procedures etc).

**DBMS** - database management system.

**DBMS connection** - the fact that both client and DBMS server have signed a contract and ready to query and data communications.

**Drag-n-drop** - the file manipulation technique when the mouse is used to move the file from the place of storage to the program, which performs processing.

**SQL language** - the declarative language used to manipulate the data and its' structure in the modern DBMS and their client applications.

**IDAPI** - Integrated Database Application Program Interface, unified DBMS access interface.

**OCI** - Oracle Call Interface, access interface for Oracle Server.

**ODBC** - Open Database Connectivity, unified DBMS access interface.

**Metadata** - information about data. See also: database schema

**SQL statement** - single SQL operator having the complete role in a data manipulation script.

**SQL-server** - program or program complex, which is able to execute the SQL-queries.

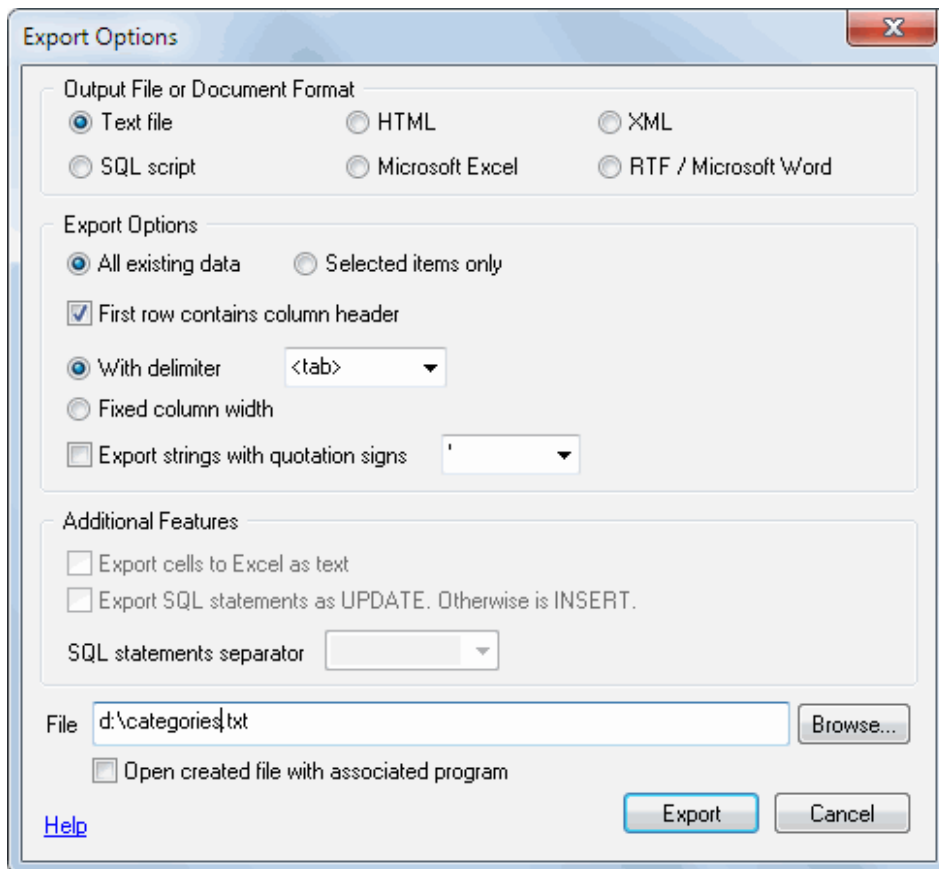




## Export results of Query Execution

Types of export:

- text file with separators or with fixed columns width.
- HTML file
- XML document
- RTF document
- set of SQL statements (INSERT or UPDATE)
- direct to Microsoft® Excel (installed Microsoft Excel required)



**Warning!** Export for long binary data types (also known as BLOBs) is not supported.

## Clipboard support

Copy selected text onto Clipboard	Ctrl-Ins, Ctrl-C
Cut selected onto Clipboard	Shift-Del, Ctrl-X
Insert text from clipboard into cursor position	Shift-Ins, Ctrl-V

### Log file

When running the program, you have to select one of menu items from "**Tools->Log file**" in order to view or truncate your Log file. The log file contains the detailed description of any errors and other events that occurred while processing script.

Default log file location is product's directory and the name is ERROR.LOG. When the user has no enough permissions DTM Schema Inspector saves log to typical path like  
C:\Documents and Settings\\Application Data\si.log or  
C:\Users\\AppData\Roaming\si.log

The log file is a text file that contains three type of records:

1. The software product identification block: product name version and operating system information.
2. Error records: wrong SQL statements, exceptions, etc.
3. Notification and statistics.