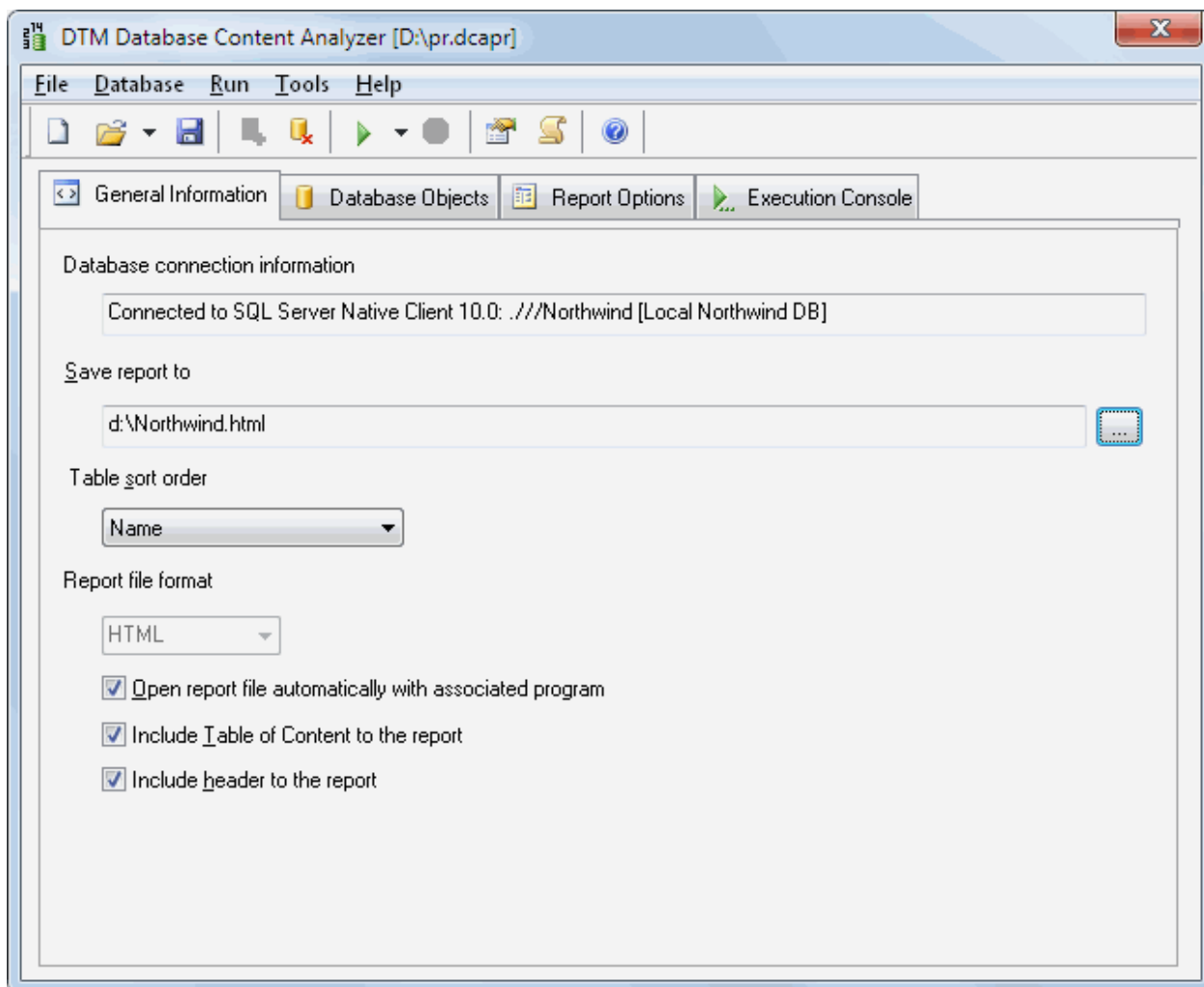


DTM Database Content Analyzer is an analytic tool for database content investigations. It creates reports with statistics about database content.

There are reports:

1. [General report](#). It contains general statistical information about the database like a number of rows per table, table size, minimum or maximum row value, a number of unique values, etc.
2. [Size Report](#). It calculates the size of each table and total database size and sort tables from biggest to smallest.
3. [Value frequency report](#). The report shows statistics for each non-BLOB value frequency.
4. [Extended statistics report](#). It collects extended statistics for numeric values: means, median, variance, standard deviation, skewness, etc.
5. [Cluster Finder](#). The report finds compact value groups for numeric and date/time columns.
6. [Anomaly Data Finder](#). It scans database columns for unexpected values.



The General Report contains common information about database tables and contains two blocks for each table: table properties and columns information.

The first block shows:

- Table name with owner or schema name, if necessary
- Number of columns (fields)
- Number of data rows
- All rows total data size and table share
- Actual data size of the table row: minimal, average and maximal

The second block shows the following information for each column:

- Column name
- Data type and length, if applicable
- Actual data size
- Minimal, average and maximal values for numeric, date and time columns
- Number and % of NULL values, if applicable

Table: dbo.Categories

Property	Value
Analyzed columns	2
Data rows	8
Data size, bytes	116 or 0.03 %
Average row size, bytes	14.50
Minimum row size, bytes	11
Maximum row size, bytes	18

Column Statistics for 'dbo.Categories' table

Column	Property	Value
CategoryID	Data type and presentation size	int identity, 10
	Data length, bytes	4
	Actual data size, bytes	32 or 27.59 %
	Minimum value	1
	Maximum value	8
	Average value	4.50
CategoryName	Data type and presentation size	nvarchar, 15
	Data length, bytes	30
	Actual data size, bytes	84 or 72.41 %

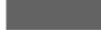





The user allowed to configure the general report with related [settings page](#).

Database Size Report

The Database Size Report is a perfect way to know how large actual database content. The report shows:

- Total database size
- Each table size and share
- Number fo rows for each table

Property	Value
DTM Database Content Analyzer	1.00.07
Database	SQL Server Native Client 10.0: ///NorthwindOriginal
Analyzed tables	13
Total data size, bytes	423 044
Report created	26-Sep-2013 16:44

Table	Rows	Total size, bytes	%% of Database
dbo.Employees	9	198 608	 46.95
dbo.Orders	830	122 319	 28.91
dbo."Order Details"	2 155	75 425	 17.83
dbo.Customers	91	10 791	 2.55
dbo.Territories	53	5 777	 1.37
dbo.Products	77	5 471	 1.29
dbo.Suppliers	29	3 582	0.85
dbo.EmployeeTerritories	49	441	0.10
dbo.Region	4	416	0.10
dbo.Categories	8	116	0.03
dbo.Shippers	3	98	0.02
dbo.CustomerCustomerDemo	0	0	0.00
dbo.CustomerDemographics	0	0	0.00

There are a [few options](#) for the report those can be tuned at settings window.

Value Frequency Report

The Value Frequency Report provides the user with detailed information about each value frequency for selected tables and columns.

Table: dbo.Customers

Column	Values	Count
ContactTitle, nvarchar	Sales Representative	17 or 18.68% rows
	Owner	17 or 18.68% rows
	Marketing Manager	12 or 13.18% rows
	Sales Manager	11 or 12.08% rows
	Accounting Manager	10 or 10.98% rows
	Sales Associate	7 or 7.69% rows
	Marketing Assistant	6 or 6.59% rows
	Sales Agent	5 or 5.49% rows
	Order Administrator	2 or 2.19% rows
	Assistant Sales Agent	2 or 2.19% rows
	Assistant Sales Representative	1 or 1.09% rows
	Owner/Marketing Assistant	1 or 1.09% rows

The report can include all values or most frequent values only depend on related option. Also, the user can request frequency for NULL value as well at the [settings](#) window.

Extended Statistics Report

The Extended Statistics Report contains detailed information for numeric columns. The metrics are:

- Median value with absolute deviation
- Value Range
- Interquartile Range
- Arithmetic mean with absolute deviation
- Harmonic mean
- Geometric mean
- Variance
- Standard deviation
- Expected value
- Skewness
- Kurtosis

Column	Property	Value
UnitPrice	Total values	77
	Unique values	62
	Range	261 [2.5;263.5]
	Interquartile range	20.75
	Arithmetic mean	28.8664
	Arithmetic mean absolute deviation	17.4416
	Median value	19.5
	Median absolute deviation	15.5325
	Harmonic mean	16.0651
	Geometric mean	20.992
	Mode value(s)	18.0000, 14.0000
	Variance	1143.46
	Standard deviation	33.8151
	Expected value	28.8664
	Skewness	365.528
	Kurtosis	28.2609

The user allowed to switch each metric on or off with related [settings](#) window tab.

The Clusters Finder searches compact value groups and includes them to report.

Column 'UnitsInStock', 77 values [0;125]

Found cluster [9;32]. Contains 34 items or 44.16% of all.

Found cluster [35;42]. Contains 8 items or 10.39% of all.

The report [options](#) help users to define minimal and maximal cluster size as % of all column values.

The header features a blue background with a white dotted grid pattern. On the left side, there is a small inset image showing a close-up of a computer keyboard and mouse. The text 'Anomaly Data Finder' is centered in a white, sans-serif font.

Anomaly Data Finder

Anomaly Data Finder scans data columns for non-standard data values, i.e. values with anomaly properties. Currently, the program offers the following search method:

- By dictionary

See also: [report settings](#).

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

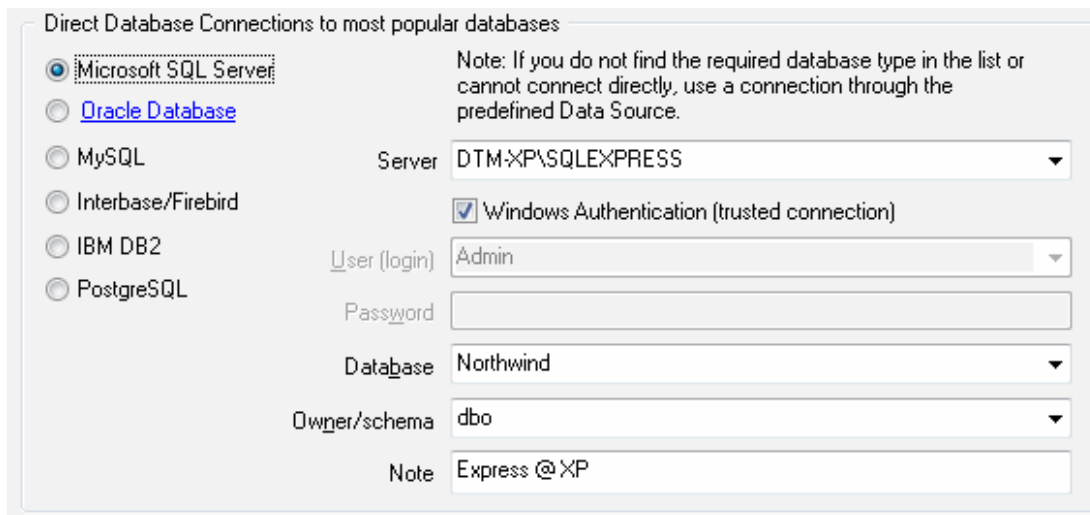
Database	How to connect
MS SQL Server	Enter or select server name at the direct connection panel
Local SQL Server Express	Enter .\SQLEXPRESS as server name at the direct connection panel
Oracle	1) Switch to data sources mode 2) select OCI as "Interface" 3) select your service name from data source drop-down menu
DB2	Use direct connection panel or Use predefined ODBC_DSN for custom connection settings
MySQL	Install ODBC driver for MySQL from www.mysql.org Use direct connection panel or Use predefined ODBC_DSN for custom connection settings
PostgreSQL	Use direct connection panel or Use predefined ODBC_DSN for custom connection settings
Interbase/Firebird	Install ODBC driver Use direct connection panel or Use predefined ODBC_DSN for custom connection settings
Microsoft Access	1) Switch to " Desktop File " panel 2) Select "Access" as file type, enter or select file name
Microsoft Excel	1) Switch to " Desktop File " 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 data sources 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.



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	ODBC	<input type="checkbox"/> Manual commit
Data source	localserver	Manage...
User (login)	sa	
Password	*****	
Database	Northwind	
Owner	dbo	
Note	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.

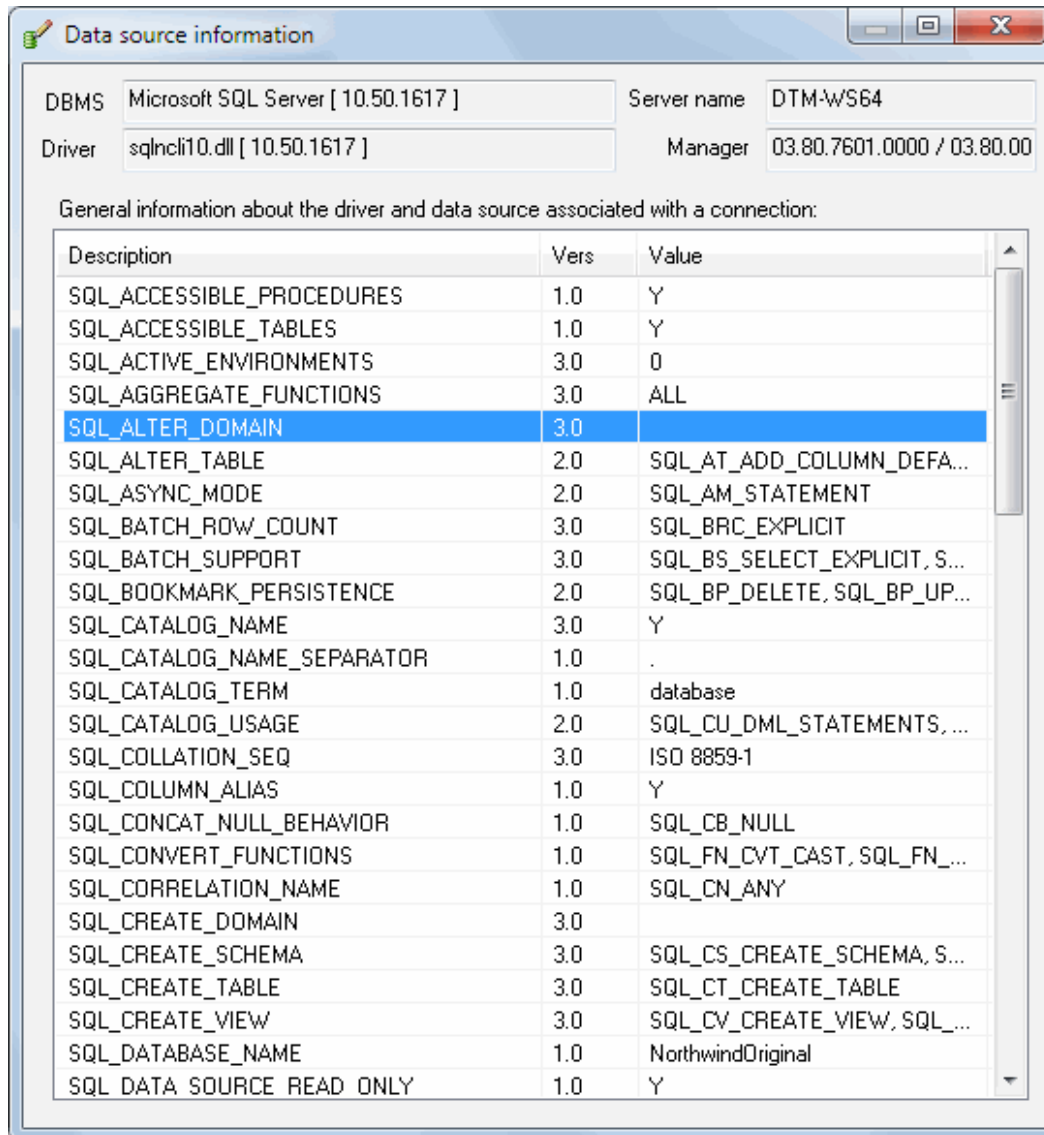
"Save" and "Load" buttons allow you to save profiles to the disk file or load them. The "Export one" button helps to save single currently selected profile.

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.

Connection Profiles						
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)

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:

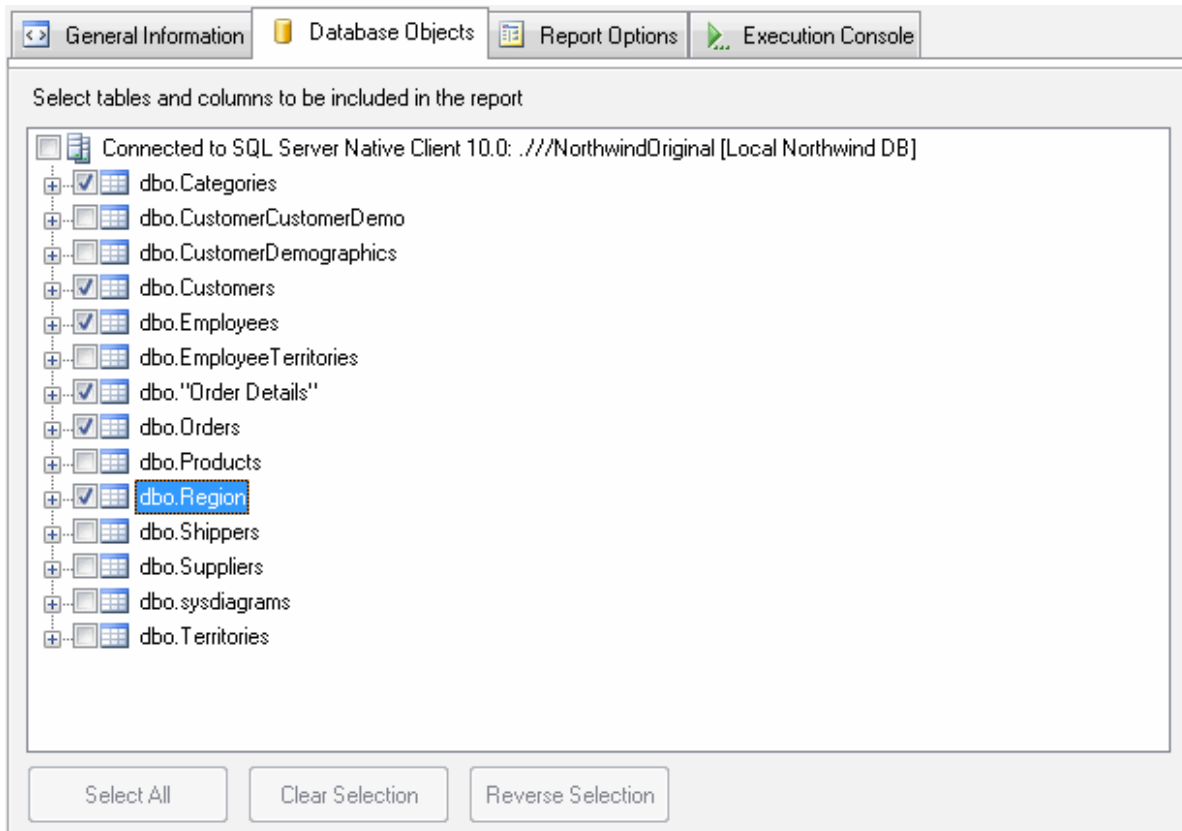
Description	Vers	Value
SQL_ACCESSIBLE_PROCEDURES	1.0	Y
SQL_ACCESSIBLE_TABLES	1.0	Y
SQL_ACTIVE_ENVIRONMENTS	3.0	0
SQL_AGGREGATE_FUNCTIONS	3.0	ALL
SQL_ALTER_DOMAIN	3.0	
SQL_ALTER_TABLE	2.0	SQL_AT_ADD_COLUMN_DEFA...
SQL_ASYNC_MODE	2.0	SQL_AM_STATEMENT
SQL_BATCH_ROW_COUNT	3.0	SQL_BRC_EXPLICIT
SQL_BATCH_SUPPORT	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 direct connection 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 support staff .
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.

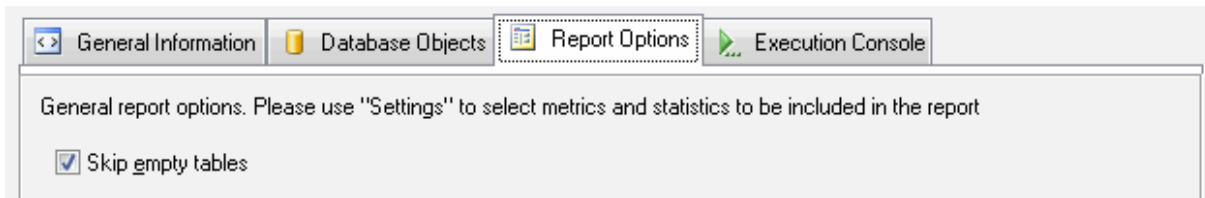
Database Objects

The user allowed selecting database tables and columns to be included in the report.

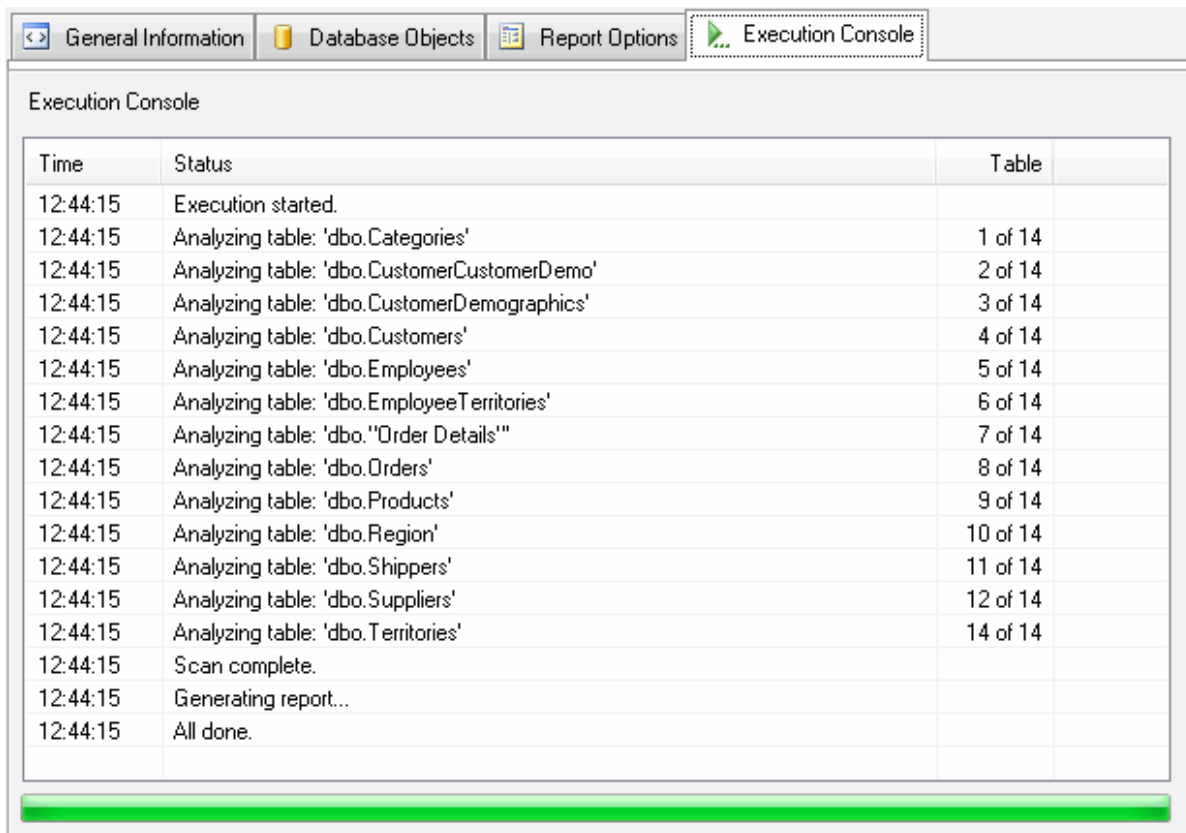


Report Options

The report options window help users to select common report properties. Please refer to [settings](#) window for detailed report options.



The execution console shows reporting process status.



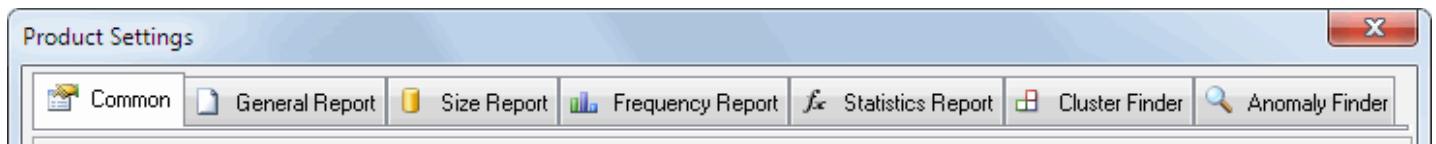
The screenshot shows a software window titled "Execution Console" with four tabs: "General Information", "Database Objects", "Report Options", and "Execution Console". The "Execution Console" tab is active and displays a table with the following data:

Time	Status	Table
12:44:15	Execution started.	
12:44:15	Analyzing table: 'dbo.Categories'	1 of 14
12:44:15	Analyzing table: 'dbo.CustomerCustomerDemo'	2 of 14
12:44:15	Analyzing table: 'dbo.CustomerDemographics'	3 of 14
12:44:15	Analyzing table: 'dbo.Customers'	4 of 14
12:44:15	Analyzing table: 'dbo.Employees'	5 of 14
12:44:15	Analyzing table: 'dbo.EmployeeTerritories'	6 of 14
12:44:15	Analyzing table: 'dbo."Order Details"'	7 of 14
12:44:15	Analyzing table: 'dbo.Orders'	8 of 14
12:44:15	Analyzing table: 'dbo.Products'	9 of 14
12:44:15	Analyzing table: 'dbo.Region'	10 of 14
12:44:15	Analyzing table: 'dbo.Shippers'	11 of 14
12:44:15	Analyzing table: 'dbo.Suppliers'	12 of 14
12:44:15	Analyzing table: 'dbo.Territories'	14 of 14
12:44:15	Scan complete.	
12:44:15	Generating report...	
12:44:15	All done.	








Product Settings

The settings helps users to tune products behavior and general report properties. It contains general tab and one tab for each type of report:

- [Common](#) Settings
- [General Report](#) Settings
- [Database Size Report](#) Settings
- [Extended Statistics Report](#) Settings
- [Custer Finder Report](#) Settings
- [Anomaly Report](#) Settings



Common Settings

 Common	 General Report	 Size Report	 Frequency Report	 Statistics Report	 Cluster Finder	 Anomaly Finder
Show table and row size in : <input type="text" value="Bytes"/>						
Default report is : <input type="text" value="General Report"/>						
<input checked="" type="checkbox"/> Add digit group separators						








General Report Settings

Common | General Report | Size Report | Frequency Report | Statistics Report | Cluster Finder | Anomaly Finder

- Show column data type details and length
- Add column level information and statistics to the report
- Show NULL statistics if positive only
- Number of unique values
- Minimum, maximum and average values

Database Size Report Settings

Database Size Report Settings

 Common	 General Report	 Size Report	 Frequency Report	 Statistics Report	 Cluster Finder	 Anomaly Finder
<input checked="" type="checkbox"/> Show % of all value for table						
<input checked="" type="checkbox"/> Show % of all chart						
<input checked="" type="checkbox"/> Add number of rows column						

Frequency Report Settings

Common General Report Size Report **Frequency Report** Statistics Report Cluster Finder Anomaly Finder

Skip unique columns
 Show NULL value frequency

Show most frequent values. 0 for all values.








Extended Statistics Report Settings

Common General Report Size Report Frequency Report **Statistics Report** Cluster Finder Anomaly Finder








- Number of unique values for column
- Median of the value sequence
- Median absolute deviation
- Range of the value
- Interquartile range
- Arithmetic mean
- Arithmetic mean absolute deviation
- Harmonic mean
- Geometric mean
- Variance
- Standard deviation
- Expected value
- Skewness
- Kurtosis

Cluster Finder Settings

Cluster Finder Report Settings

 Common	 General Report	 Size Report	 Frequency Report	 Statistics Report	 Cluster Finder	 Anomaly Finder
Minimal cluster size is <input type="text" value="10"/> % of all values						
Maximal cluster size is <input type="text" value="75"/> % of all values						

Anomaly Finder Report Settings

 Common	 General Report	 Size Report	 Frequency Report	 Statistics Report	 Cluster Finder	 Anomaly Finder
<input type="checkbox"/> Show whole found dictionary in the report						
Minimum share for values in dictionary is <input type="text" value="90"/> % of all rows						
Maximum dictionary width is <input type="text" value="20"/> % of all values						



HTML Report customization

The installation folder of DTM Database Content Analyzer has TMPL subfolder. This subfolder contains the template for HTML report customization.

The HEAD.HTM file is a report header. The user can modify CSS items definitions to customize the report.

Hot Keys

Hotkey	Function or Option
Ctrl+0	Run the General Report
Ctrl+1	Run the Database Size Report
Ctrl+2	Run the Frequency Report
Ctrl+3	Run the Extended Statistics Report
Ctrl+4	Run the Cluserer Finder
Ctrl+5	Run the Anomaly Data Finder
Ctrl+A	Open "About the program" window
Ctrl+L	View log file
Ctrl+N	Create new empty project file
Ctrl+O	Load Project file from the disk
Ctrl+R	Run the default report
Ctrl+S	Save Project file to the disk
F1	Open help
F2	Open the connect window
F3	Close the database connection (disconnect)



How can I order DTM Database Content Analyzer 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/DatabaseAnalyzer/order.html> to your web browser.

If you have any payment questions feel free to contact the DTM Database Content Analyzer technical support at support@sqledit.com

What differences between the demo and full versions of DTM Database Content Analyzer?

General functions

- The program shows up to 30% of available information.

Supplemental functions

- SQL console partially replaces result values to DEMO string.

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

[DTM SQL Editor](http://www.sqledit.com/editor) (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) 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) 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) 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) 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) 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) 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) 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.



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Program Installation

To run installation program:

- Open the windows Start menu and select "Run" item
- Select or enter installation file name and path (DatabaseAnalyzer.exe or DatabaseAnalyzer_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 Database Content Analyzer 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 Database Content Analyzer components and all records in the Windows registry made by the installation script. You can uninstall this program by selecting the "**DTM Database Content Analyzer**" 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 Database Content Analyzer?

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

Please contact our support staff at 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 Database Content Analyzer 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 Database Content Analyzer technical support at support@sqledit.com

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

- DTM Database Content Analyzer 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 Database Content Analyzer 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](#)



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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.

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 Database Content Analyzer saves log to typical path like C:\Documents and Settings\\Application Data\DatabaseAnalyzer.log or C:\Users\\AppData\Roaming\DatabaseAnalyzer.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.