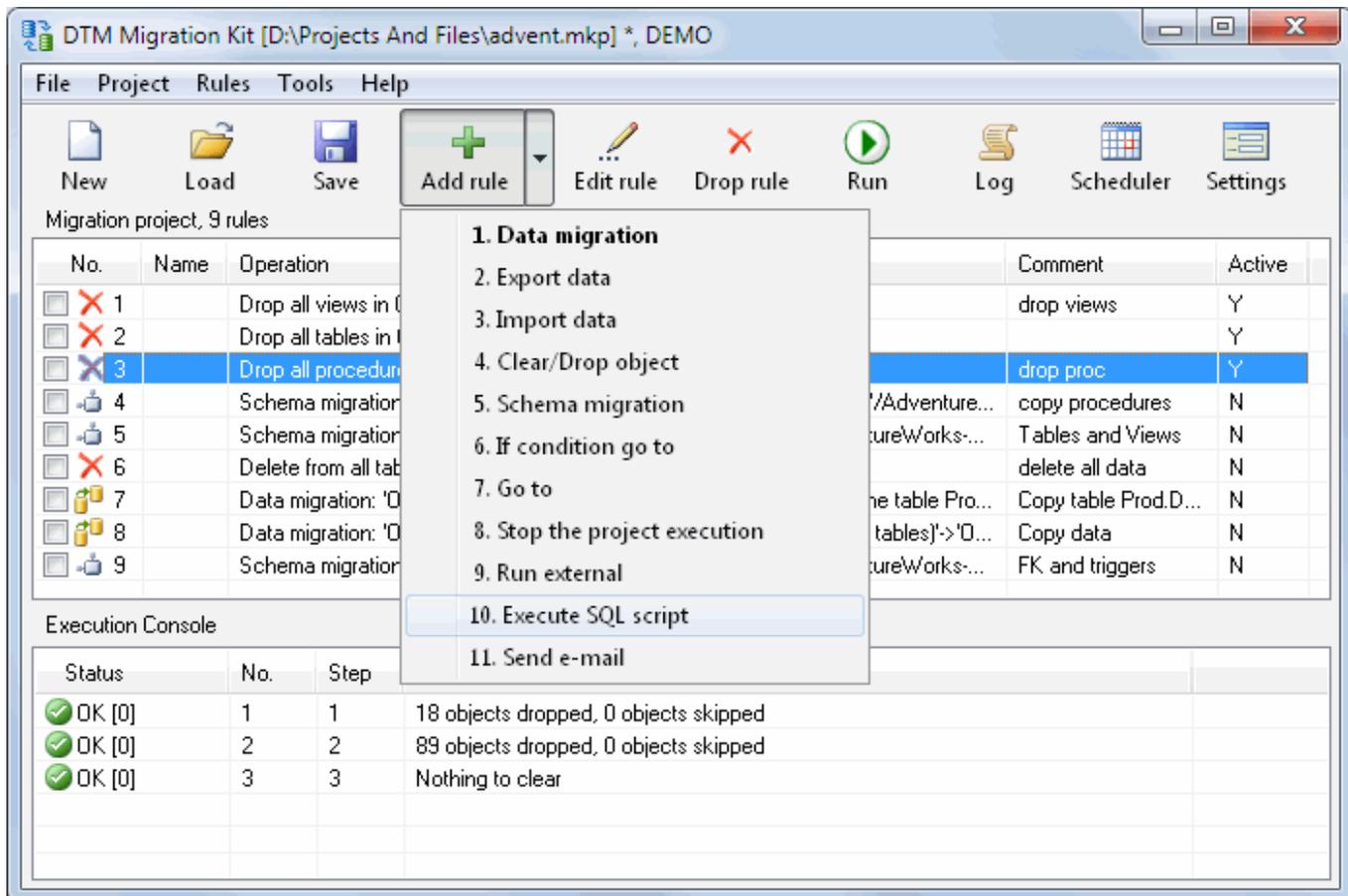


About the data import, export and migration software

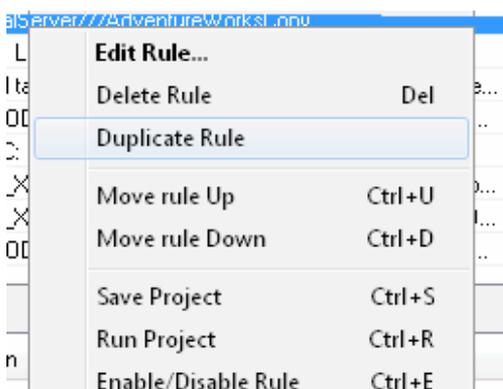
DTM Migration Kit is a set of database tools for data import, export, and migration. It supports visual and automatic data transformation control.

Key product features are:

- Easy to create and to execute transformation scripts with the wizard-like interface.
- Supports ODBC, IDAPI, OLE DB, and Oracle Call Interface.
- Allows you to [export](#) data to the plain text, HTML, XML and RTF (MS Word compatible) formats.
- [Imports](#) data from the most popular desktop formats and databases: text, DBF, Paradox, MS Access, Excel.
- Supports schema migration as well as data transformation for tables, views, keys and indexes.
- Column [mapping](#) makes the migration procedure more flexible.
- Data type [mapping](#) allows users to prepare complex migration between different type of databases.
- Built-in [integration](#) with Windows Task Scheduler.



There is a picture of local menu accessed by the right click inside the rules list. See the picture below:



Using this menu you can to:

- Disable or enable the selected rule. Program skips disabled rules during project execution.
- Open editor dialog box for the current rule.
- Duplicate or remove the selected rule.
- Save current project.
- Run current project.
- Move the selected rule up or down in the project.

DTM Migration Kit is a Windows application, known to be compatible with the following operating systems: Windows XP, Windows 2003 and newer Server family and Windows Vista, 7, 8/10 (desktop). The 64-bit edition is also available.

There are two panels at the main window: the list of migration rules and the execution console.

Rule List

The first panel contains information about all rules of the current project. One line of the list corresponds to one rule. This panel allows you to add, edit and delete [rules](#). Using the "Rules" submenu of the main menu or list's context menu, you can duplicate a rule, move it up or down in the project.

Migration project, 9 rules

| No. | Name | Operation | Comment | Active |
|---|------|--|------------------------------|--------|
| <input type="checkbox"/> X 1 | | Drop all views in ODBC: LocalServer///AdventureWorksCopy | drop views | N |
| <input type="checkbox"/> X 2 | | Drop all tables in ODBC: LocalServer///AdventureWorksCopy | | N |
| <input checked="" type="checkbox"/> X 3 | | Drop all procedures in ODBC: LocalServer///AdventureWorksCopy | drop proc | N |
| <input type="checkbox"/> 4 | | Schema migration, 0 selected | adventure... copy procedures | N |
| <input type="checkbox"/> 5 | | Schema migration, all tables | eWorks-... Tables and Views | N |
| <input type="checkbox"/> X 6 | | Delete from all tables in ODBC: LocalServer///AdventureWorksCopy | delete all data | N |
| <input type="checkbox"/> 7 | | Data migration: 'ODBC: LocalServer///AdventureWorksCopy' table Prod.D... | Copy table Prod.D... | Y |
| <input type="checkbox"/> 8 | | Data migration: 'ODBC: LocalServer///AdventureWorksCopy' table Prod.D... | Copy data | N |
| <input type="checkbox"/> 9 | | Schema migration, all tables | eWorks-... FK and triggers | N |

Edit Rule...

Delete Rule Del

Duplicate Rule

Move rule Up Ctrl+U

Move rule Down Ctrl+D

Execution Console

The execution console displays information about project execution. One execution step produces one line in the console. You can interrupt the execution using "Break" button at the bottom of the panel.

The debugging execution mode means that the program will ask you for the execution of every step (rule).

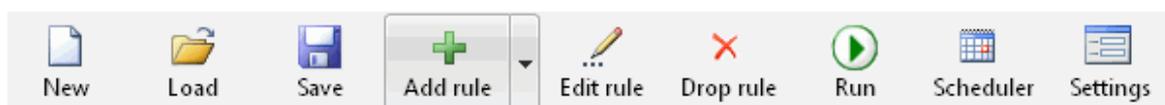
Execution console

| Status | No. | Step | Information |
|---|-----|------|---|
| ● OK [0] | 1 | 1 | Source 'Seats', records: 7 imported, 0 rejectd, 70.00 rec/sec. |
| ● OK [0] | 2 | 1 | Source 'Tickets', records: 7 imported, 0 rejectd, 137.25 rec/sec. |

Main Toolbar

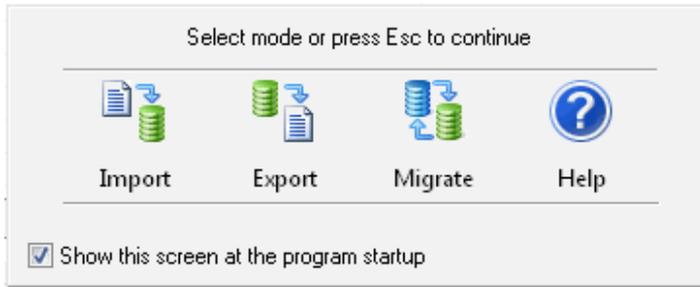
The program toolbar contains the most frequently used commands:

- Create a new empty project
- Load and save the project
- Add, edit, remove the [rule](#)
- Execute the project
- [Schedule](#) the project execution
- Open [settings](#) window



Quick Start

The welcome screen helps you to switch to create a rule for import, export or transformation by the one click. The simplest case is when your transformation project can contain only one rule.



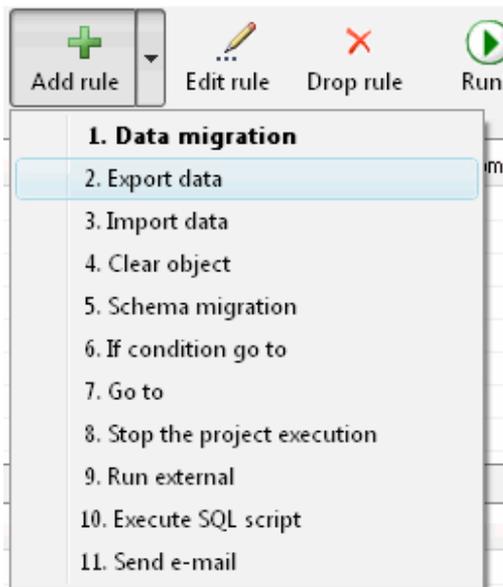
See also: [tips and solutions](#).

Migration Rules

You should create a migration project to perform any data transformations. A project is a set of one or more rules. There are eleven rule types:

1. **Data Migration** allows you to perform data transformation between two data sources.
2. **Export Data** allows you to export data from a database table to HTML, XML, text or RTF (MS Word compatible) format.
3. **Import Data** is a way to load data from desktop formats (text/CSV, DBF, Access, Paradox, Excel) to a database table.
4. **Clear Data** can be used to drop the selected table or to delete some specified rows. Also, it allows the user to drop view or stored procedure.
5. **Schema Migration** allows you to create empty copies of tables, views, indexes, triggers, procedures, keys, etc in the destination database.
6. **Conditional Branching** changes the order of execution depending on whether the result of the previous step is OK or FAILED.
7. **Go to Label** is unconditional execution branching.
8. **Stop Execution** interrupts project execution.
9. **Run External Executable** allows you to run any external program or system batch file.
10. **Run SQL Script** allows you to run SQL scenario from disk file for specified database connection.
11. **Send e-mail** allows you to send a message via default mail client.

Please use the drop-down toolbar menu to create a new rule. It opens the Rule Wizard that helps you to create a rule.



You can specify an optional label for any rule. It can be used for jumping to this rule from any other rule. Moreover, you can add a text comment for a rule.

Limitations of the current version

- Text fields are limited in their length to 20480 bytes for all migrations (import, export or data transfer).
- Views migration is not supported for some database formats (at least Microsoft Access).

Project Execution Scheduling

This window helps you to schedule the task of executing the transformation project in Windows Task Scheduler. The program allows you to create four types of scheduled tasks: run once, daily, weekly and monthly. If you want to cancel and remove the task, select the "Never" mode.

There are options for each of these schedule modes in the dialog box. You can also create a note for the task. It will be displayed in the task list.

Remember that the task will be executed under the user account you specify. That is why the specified account must have all the access rights needed to execute the transformation project. After you create the task, you can view or modify it using the corresponding item from the Scheduled Tasks folder in the Control Panel of your system.

Project Scheduler

Task name: Run project 'advent.mkp'

Execute: C:\Program Files (x86)\DTM Migration Kit\mk.exe -c D:\Projects And Files\advent.mkp

Note: Copy AW data

Run:

Schedule project: Weekly

Every: 1 week(s)

Start time: 12 : 00

Account: John

Password: xxxxxx

On: Mon Tue Wed Thu Fri Sat Sun

OK Cancel

| Transformation task | Solution |
|---|---|
| Import, export or migrate the single table or view. | Create "Import", "Export" or "Migration" rule. |
| Import, export or migrate all tables to a new (empty) data source. | Create "Import", "Export" or "Migration" rule with " All tables " mode. |
| Export or migrate the results of query execution. | "Export" or "Migration" rule and enter "SELECT" statement for query definition. |
| Import, export or migrate a few tables. | Create "Import", "Export" or "Migration" rules for each source table. |
| Import or migrate data to the existing table with data overwriting. | <ol style="list-style-type: none"> 1. Create "Clear" rule. 2. Create "Import" or "Migration" rule. |
| Perform migration rule(s) and send notification if success. | <ol style="list-style-type: none"> 1. Create your migration rule(s). 2. Create "if" rule for FAIL. 3. Create rule with run an external notification. |
| Run project without any prompting. | <ol style="list-style-type: none"> 1. Create and save your transformation project. 2. Run Migration Kit with -c switch and project file name as a command line. |
| Scheduled package execution. | <ol style="list-style-type: none"> 1. Create and save your transformation project. 2. Schedule project execution using "Schedule" dialog. |

Product Settings

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

| Option | Default Value | Description |
|--|---------------|---|
| Load recent project | Yes | The program will not load recent project at the startup if this option is switched OFF. |
| Quit application after project execution | No | The program will stop after project execution when this option is switched ON. |
| Show Welcome screen | Yes | Open or no welcome screen at the program startup |
| Program log level | Default | This option allows users to tune log from "disabled" to "full" mode. |
| Default connection properties | Empty | This option defines default connection for new rules. It can save a lot of time when you operate with same database connection again and again. |
| Quit confirmation | No | The program asks for quit confirmation if this option is switched ON. |
| Show password | No | The program will not replace password to '*' when this option is switched ON. |
| Save project before each execution | No | The program saves an active project before each execution when this option is switched ON. This option is suitable for "Quit application after project execution" option. |
| Create .BAK file | Yes | The program moves existing project to .bak before overwrite it. This option allows the user to disable this behavior. |
| Show views and synonyms | No | By default, the program shows only tables in the object lists. These two options allow the program to add views and synonyms. |
| Stop on the first error | No | The program stops rule execution on the first rejected SQL statement when this option is switched ON. |
| Always add schema name | Yes | When this option is switched ON the software does not add schema/owner prefix to schema name. |
| Show object description | No | When this option is switched ON the software adds existing comments/descriptions to object lists. |
| Performance mode is default | No | This option switches the program to performance (or "fewer diagnostics") mode. Another way is to use -p command line switch. |
| SQL statement delimiter | Empty | Project level SQL statement delimiter. The rule level option can be specified at the related page of the wizard. |
| Log file location | Empty | Empty string means product directory. The user allowed to specify alternate path and file name. |
| Date conversion function | Empty | This built-in conversion function will be applied to any date before insertion into target database. It is suitable for different date/time formats of primary and secondary databases. |
| Default connection | N/A | This options block allows the user to define default connection. Any new rule will inherit these properties. |

DTM Migration Kit Settings



Load recent project at the program startup
 Close the program after a project execution
 Show Welcome screen at the program startup
 Show views in the lists
 Show synonyms in the lists
 Always add schema/owner name to SQL statements
 Performance Mode is default

SQL statement delimiter :

Apply Date Conversion Function

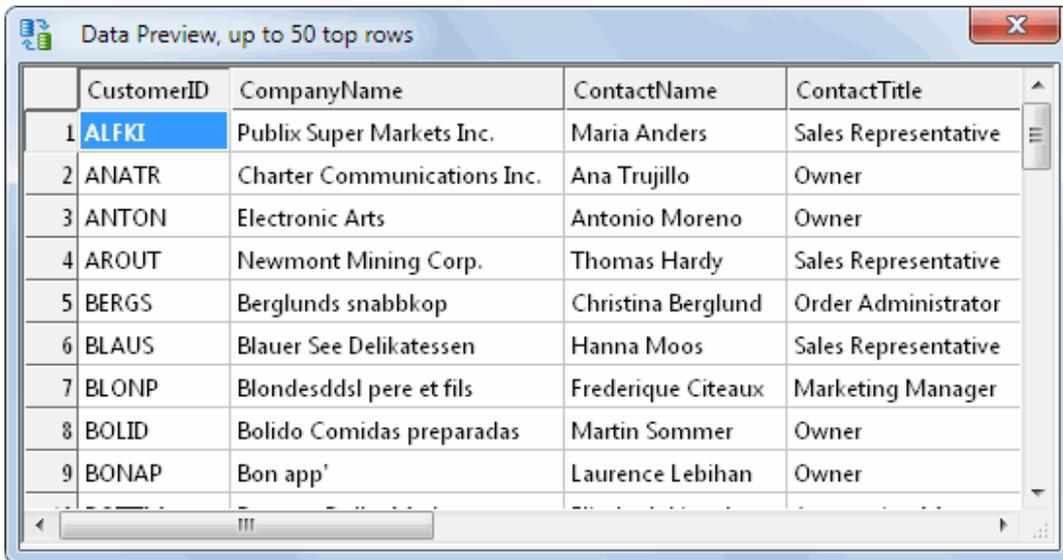
Log level Location

Default connection properties

| | Source (primary) connection | Copy -> | Target (secondary) connection |
|-------------|--|---|--|
| Interface | <input type="text" value="ODBC"/> | <input type="button" value="Copy ->"/> | <input type="text" value="ODBC"/> |
| Data source | <input type="text" value="LocalServer"/> | | <input type="text" value="LocalServer"/> |
| User/Login | <input type="text" value=""/> | | <input type="text" value=""/> |
| Password | <input type="text" value=""/> | | <input type="text" value=""/> |
| Owner | <input type="text" value=""/> | | <input type="text" value=""/> |
| Database | <input type="text" value="t1"/> | | <input type="text" value="t1"/> |

Data Preview Window

You can use the preview dialog box to explore the source data before transformation. For large tables, this data grid shows only records at the top of the table.



| | CustomerID | CompanyName | ContactName | ContactTitle |
|---|------------|-----------------------------|--------------------|----------------------|
| 1 | ALFKI | Publix Super Markets Inc. | Maria Anders | Sales Representative |
| 2 | ANATR | Charter Communications Inc. | Ana Trujillo | Owner |
| 3 | ANTON | Electronic Arts | Antonio Moreno | Owner |
| 4 | AROUT | Newmont Mining Corp. | Thomas Hardy | Sales Representative |
| 5 | BERGS | Berglunds snabbkop | Christina Berglund | Order Administrator |
| 6 | BLAUS | Blauer See Delikatessen | Hanna Moos | Sales Representative |
| 7 | BLONP | Blondesddsl pere et fils | Frederique Citeaux | Marketing Manager |
| 8 | BOLID | Bolido Comidas preparadas | Martin Sommer | Owner |
| 9 | BONAP | Bon app' | Laurence Lebihan | Owner |

DTM Migration Kit supports following command line switches:

- r** - if present, run current project at the program startup
- s** - skip Welcome screen
- q** - quit application after the project execution
- p** - switch Performance Mode on
- l<file>** - custom ERROR.LOG file
- c** - [console mode](#). You must specify the project name in command line.

Also, you can use project name as a command line parameter.

Example: **MK.EXE -s -r "d:\My Migration Projects\ExportTasks.mkp"**

Return codes

The program returns a few error codes in console mode:

- not 0 - project execution error(s) found
- 0 - project executed successfully

How to use return codes? The user can use ERRORLEVEL environment variable in batch file after the program execution. ECHO.%ERRORLEVEL% line shows return code and IF ERRORLEVEL can be used for execution branching.



Console Mode

The console mode is a mode when the [program](#) doesn't open any dialogs and doesn't need any interference from the user. A project for the console mode must be prepared and tested beforehand. This mode enables you to integrate the product with the Windows task scheduler as well as to execute project prepared beforehand according to the schedule.

For example, in order to execute a project today at 11.00, use the following command line:

```
at 11:00 "mk.exe -c d:\MyMKProject.mkp"
```

See also: [Execution scheduling.](#)

Project Properties

This window helps the user to edit connection information for all rules at once. Important: this feature changes connection information for import, export and migration (both data or schema) rules only. Moreover, you can change only the target for import rule and only source for export.

The 'author' and 'description' fields can be used to add this information to the project. The program uses this data for reporting purposes only.

Project Properties

Project Author
Max B. Liskoff

Project Description
Copy schema to backup Access DB

This block of settings helps you to specify connection information for all rules at once.

| | Source (primary) connection | Target (secondary) connection |
|-------------|-----------------------------|-------------------------------|
| Interface | ODBC | ODBC |
| Data source | LocalServer | MS Access Database |
| User/Login | sa | |
| Password | | |
| Owner | dbo | |
| Database | SalesBase | |

Save Cancel

Hot Keys

| Hotkey | Function or Option |
|---------------|--|
| Ctrl+A | Open About window |
| Ctrl+E | Enable or disable selected rule or rules |
| Ctrl+L | View log file |
| Ctrl+N | Create new empty project file |
| Ctrl+O | Load Project file from the disk |
| Ctrl+R | Run the project |
| Ctrl+S | Save Project file to the disk |
| F1 | Open help |
| F3 | Create HTML project report |
| F4 | Open editor for the selected rule |
| F5 | Export "Execution Console" content |
| F7 | Open settings window |
| F8 | Open project properties window |
| F9 | Open schedule settings window |

Data Source Specification

This page allows you to specify the data source for the source or target database. You must select the database interface type (ODBC, IDAPI or Oracle Call Interface) and the data source name (alias). Some types of DBMS require a user name (login) and its access password.

| | |
|------------------|---|
| Interface | <input type="text" value="ODBC"/> |
| Data Source Name | <input type="text" value="localserver"/> <input type="button" value="..."/> |
| User (login) | <input type="text" value="sa"/> |
| Password | <input type="password" value="xxxxxxx"/> |
| Database | <input type="text" value="Northwind"/> |
| Owner (schema) | <input type="text" value="dbo"/> |

Clear or Drop Object Rule

This page allows you to create a rule for dropping or cleaning (deleting all or some data) a database object. You must select the table to be cleared and specify the method (drop or delete data) of the clearance.

WHERE clause can limit rows to be deleted. All rows will be deleted for empty field.

Otherwise, the user can specify 'VIEW' or 'PROCEDURE' to be dropped.

Apply to all database objects of the Data Source

Table name

Drop

Delete data rows

Where (optional)

DROP view

DROP procedure

Column Mapping Feature

You can define correspondence between the source and destination (target) fields also known as mapping. The program automates this procedure using fields with the same names. Also, you can change the default mapping by using the "Map" and "Unmap" buttons.

To unmap some correspondence select it and click "Unmap". To map select one field in the source table and one field in the target table then click "Map".

| Source 'Seats' | SMALLINT->int | | Target 'Employees' |
|----------------|---------------|------------|--------------------|
| Column Name | Source | Target | Column Name |
| SeatID | SeatID | EmployeeID | LastName |
| Row | Row | City | FirstName |
| Seat | TO_DATE(Seat) | BirthDate | Title |
| | | | TitleOfCourtesy |
| | | | HireDate |
| | | | Address |
| | | | Region |
| | | | PostalCode |
| | | | Country |
| | | | HomePhone |
| | | | Extension |
| | | | Photo |
| | | | Notes |
| | | | ReportsTo |
| | | | PhotoPath |

Conversion for Target
<none>

Source Conversion expression

use as constant

Map columns Update Unmap Unmap All

Also, the mapping dialog box allows you to describe additional conversions for the source data during the migration or import process.

You can specify a function for column conversion. To do it, enter the name of the function or an expression in the 'Conversion expression' field. If you use the name of a function, you will get an expression of the following type: FUN(column). You should use the %s marker to specify the position of the parameter for an expression, e.g. SUBSTR(%s,1,5).

You can specify the explicit conversion of types to the Integer or Float value. It makes sense when you need to remove non-significant zeros, etc.

See also: how to use database [built-in functions](#) with mapping feature.

Database built-in functions and Columns mapping

The [column mapping](#) feature allows the user to apply built-it database functions to source and target data sets. There is important to use function that is available in source database to source data set only as well as target for target. That means, for example, you can't use SQL Server functions for target database when you copy data from SQL Server 2005 to Oracle 10g.

For the **source** data set, function should be specified in the "Source Conversion expression" text box of the Mapping page of the rule wizard. For example, you want to use substring (starting 5th char and with 10 chars length) of source SQL server column. SUBSTRING(%,5,10) conversion expression is most suitable in this case. To apply this conversion you should press "Update" button when required mapping row is selected.

Source 'dbo.Customers' nvarchar->nvarchar

| Column Name | Source | Target |
|--------------|------------------------|--------------|
| CustomerID | CustomerID | CustomerID |
| CompanyName | CompanyName | CompanyName |
| ContactName | ContactName | ContactName |
| ContactTitle | ContactTitle | ContactTitle |
| Address | Address | Address |
| City | City | City |
| Region | SUBSTRING(Region,5,10) | Region |
| PostalCode | PostalCode | PostalCode |
| Country | Country | Country |
| Phone | Phone | Phone |
| Fax | Fax | Fax |

Conversion for Target
<none>

Source Conversion expression
SUBSTRING(%,5,10)

use as constant

Map columns Update Unmap Unmap All

To apply the same function to the **target** database the user should:

1. Select "custom" as a target conversion type.
2. Enter or select required function.
3. Press "Update" to apply changes.

Source 'dbo.Customers' nvarchar->nvarchar

| Column Name | Source | Target |
|--------------|--------------|---------------------|
| CustomerID | CustomerID | CustomerID |
| CompanyName | CompanyName | CompanyName |
| ContactName | ContactName | ContactName |
| ContactTitle | ContactTitle | ContactTitle |
| Address | Address | Address |
| City | City | City |
| Region | Region | SUBSTR(Region,5,10) |
| PostalCode | PostalCode | PostalCode |
| Country | Country | Country |
| Phone | Phone | Phone |
| Fax | Fax | Fax |

Conversion for Target
custom

Source Conversion expression
SUBSTR(%,5,10)

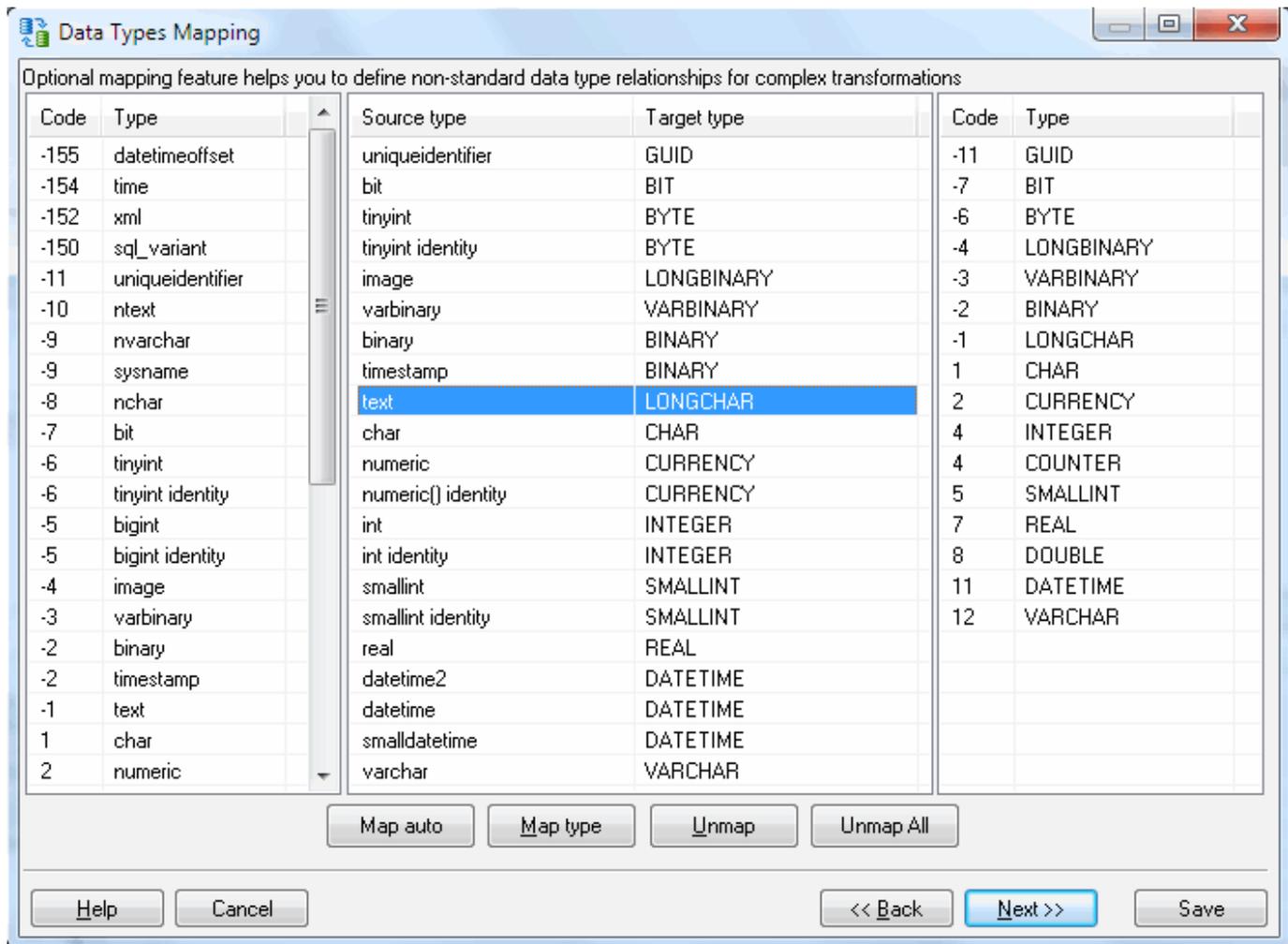
use as constant

Map columns Update Unmap Unmap All

Please refer to your database documentation for complete built-in functions list.

Data Type Mapping

This window helps user to define optional mapping for data types. By default (without mapping) the program will use code-to-code mapping automatically.



Execution Control Rules

There are three execution control rules: stop current project execution, the unconditional "go to" rule and conditional branching. No additional information is required for the STOP rule.

For the "go to" rule, you have to specify (enter or select from list) the destination label.

Go to rule name

For conditional branching, you should also specify a branching condition.

If SUCCESS
 If ERROR
Go to rule name

Export Options

The program supports export to the following formats: plain text, HTML, XML and RTF (MS Word compatible).

Export format

Text file HTML RTF XML Set of SQL statements MS Excel

Export options

The first row contains column names

Quote text value if required

With delimiter Fixed column width

SQL statements separator :

XML output format : Column name as an attribute

ANSI conversion

None ANSI to OEM OEM to ANSI

Identity mode (SQL Server)

Export Ignore Export with SET statements

Generate single output file

Target file or directory: D:\Projects And Files\actor.txt

Export BLOBs as binary files Export long texts to separated files

Directory for BLOBs

The program allows you to select the export type for text output: delimited or fixed width. For text output you can specify a field delimiter by entering or selecting it from the list. There are two formats for text output: with delimiters or fixed width. The first row of the output file can contain column names. Also, the program can quote non-numeric values if necessary.

For SQL output the user can specify statement-to-statement delimiter like 'go' or ';'. Custom delimiters are available.

There are two output modes if source data has more than one table or another source:

- Single file. In this case the program write all output data to specified file.
- File per object mode. The user should specify output directory instead file in this case.

For XML file there are two formats: column name as an attribute (`<column name="A" >`) or as a tag (`<A>`).

If you enable the "Export BLOBs" option, the program will save each binary object in a separated file with the ".bin" extension in the directory selected (by default, in current directory). The file name will contain the record number and the field number, for example, "MyTable_Record_5_Column_7.bin".

For Microsoft SQL Server and "SQL" output format there are three options for "identity" columns:

- Export. The program will export values in this case.
- Ignore. The program skips identity columns.
- Export with SET. The program will export identify and add "set identify" on or off SQL statements to output file.

Type of Source to Export or to Migrate

This wizard page allows you to select type of source data to export or migrate. There are four options:

- Single table or view. The user will select it at the next wizard's page.
- All tables of the source database.
- User defined list of tables.
- Results of SQL statement ('select' and function/procedure 'call' are suitable) call execution will be used as data source for export or migration.

Single table or view data

All tables data. Default settings, without mapping. Always use existing tables

Selected tables

| Table Name | Comment |
|---|---------|
| <input type="checkbox"/> dbo.AWBuildVersion | |
| <input type="checkbox"/> dbo.DatabaseLog | |
| <input type="checkbox"/> dbo.ErrorLog | |
| <input type="checkbox"/> HumanResources.Department | |
| <input type="checkbox"/> HumanResources.Employee | |
| <input type="checkbox"/> HumanResources.EmployeeAddress | |
| <input type="checkbox"/> HumanResources.EmployeeDepartmentHistory | |
| <input type="checkbox"/> HumanResources.EmployeePayHistory | |

Results of the query execution

Data Preview

Source: ODBC: LocalServer/sa//AdventureWorks

Important: at this page [preview data](#) option is available for "query execution" option only.

Data Import Options

The import options page allows you to choose the data format to import data from and to select the source file. Also, you can specify ANSI conversion mode and directory with binary files to be imported as BLOBs.

The login (user name) and password can be specified for Access databases if necessary.

Import format

Text file (TXT or CSV), format Character set

First record of data will specify the column names

Microsoft Access

dBase, FoxBase or FoxPro

Paradox

Microsoft Excel

Import from

User name (login) Password

Import BLOBs from binary files: <TableName>_Record_<RecNo>_Column_<ColNo>.bin

BLOBs directory

ANSI conversion

None

ANSI to OEM

OEM to ANSI

Import NULLs as NULLs (as empty strings otherwise)

Database Schema Migration Options

The schema migration page allows you to select types of objects for migration.

There are three options to select table to be copied:

- All tables. In this case, definitions for all source tables will be migrated.
- Single table. This case also allows the user to change table name in the target database.
- User defined list of tables.

The program also can migrate supplemental table's objects definitions: defaults, check constraints, indexes, triggers, etc.

Moreover, the program allows users to copy views and procedures to compatible database system.

The screenshot shows a software interface titled "Database Schema Objects". It features three radio buttons for selection: "All tables", "Single Table" (which is selected), and "Selected tables". The "Single Table" option is accompanied by a dropdown menu showing "Person.Address". Below this is a text field for "Target Name (same as source if empty)".

Under the "Selected tables" option, there is a table with two columns: "Table Name" and "Comment". The table lists several tables from the "Sales" schema, each with a checkbox for selection:

| Table Name | Comment |
|--|---------|
| <input type="checkbox"/> Sales.SalesTaxRate | |
| <input type="checkbox"/> Sales.SalesTerritory | |
| <input type="checkbox"/> Sales.SalesTerritoryHistory | |
| <input type="checkbox"/> Sales.ShoppingCartItem | |
| <input type="checkbox"/> Sales.SpecialOffer | |
| <input type="checkbox"/> Sales.SpecialOfferProduct | |
| <input type="checkbox"/> Sales.Store | |
| <input type="checkbox"/> Sales.StoreContact | |

Below the table, there are several checkboxes for object types to migrate: "Table definition", "Primary Keys", "Descriptions", "Schema (SQL Server only)", "Foreign Keys" (checked), "Defaults", "Check Constraints", "Indexes", and "Triggers". At the bottom right, there are two buttons: "Select All" and "Clear Selection".

At the bottom left, there are three more checkboxes: "Views", "Stored Procedures", and "User Defined Data Types (SQL Server only)".

Rule Information

You can specify an optional label for any rule. It can be used for jumping to this rule from another rule. Also, you can add the text comment for the rule.

Optional rule name (uses as a label for 'if' and 'go to' rules)

Comment (optional)

Source Object Specification

This page helps you select the source data for export or migration. You can select a table and columns. Also, you can add an optional condition for table rows (please do not enter the 'where' keyword). [Preview data](#) feature is a fast way to analyze data to be exported or migrated.

Table Specification

Table name:

Columns:

| Column Name | Data Type | Null | PK | Comment |
|--|--------------|------|----|---------|
| <input checked="" type="checkbox"/> CustomerID | nchar(5) | N | Y | |
| <input checked="" type="checkbox"/> CompanyName | nvarchar(40) | N | | |
| <input checked="" type="checkbox"/> ContactName | nvarchar(30) | Y | | |
| <input checked="" type="checkbox"/> ContactTitle | nvarchar(30) | Y | | |
| <input checked="" type="checkbox"/> Address | nvarchar(60) | Y | | |
| <input checked="" type="checkbox"/> City | nvarchar(15) | Y | | |
| <input checked="" type="checkbox"/> Region | nvarchar(15) | Y | | |
| <input checked="" type="checkbox"/> PostalCode | nvarchar(10) | Y | | |
| <input checked="" type="checkbox"/> Country | nvarchar(15) | Y | | |
| <input checked="" type="checkbox"/> Phone | nvarchar(24) | Y | | |
| <input checked="" type="checkbox"/> Fax | nvarchar(24) | Y | | |

Select All

Clear Selection

Where (optional):
[Data Preview](#)

Source: ODBC: LocalServer/sa//NorthwindOriginal

Help Cancel << Back Next >> Save

Target Table Specification

This page helps you select the destination object for import or migration rule. You can select an existing table or enter a name for a new table - Migration Kit will create it during the rule execution.

Create new table

Use existing table

| Table name | Comment |
|---|---------|
| <input type="checkbox"/> Categories | |
| <input type="checkbox"/> CustomerCustomerDemo | |
| <input type="checkbox"/> CustomerDemographics | |
| <input type="checkbox"/> Customers | |
| <input type="checkbox"/> Employees | |
| <input type="checkbox"/> EmployeeTerritories | |
| <input type="checkbox"/> "Order Details" | |
| <input type="checkbox"/> Orders | |
| <input type="checkbox"/> Products | |
| <input type="checkbox"/> Region | |
| <input type="checkbox"/> Shippers | |
| <input type="checkbox"/> Suppliers | |
| <input type="checkbox"/> Territories | |

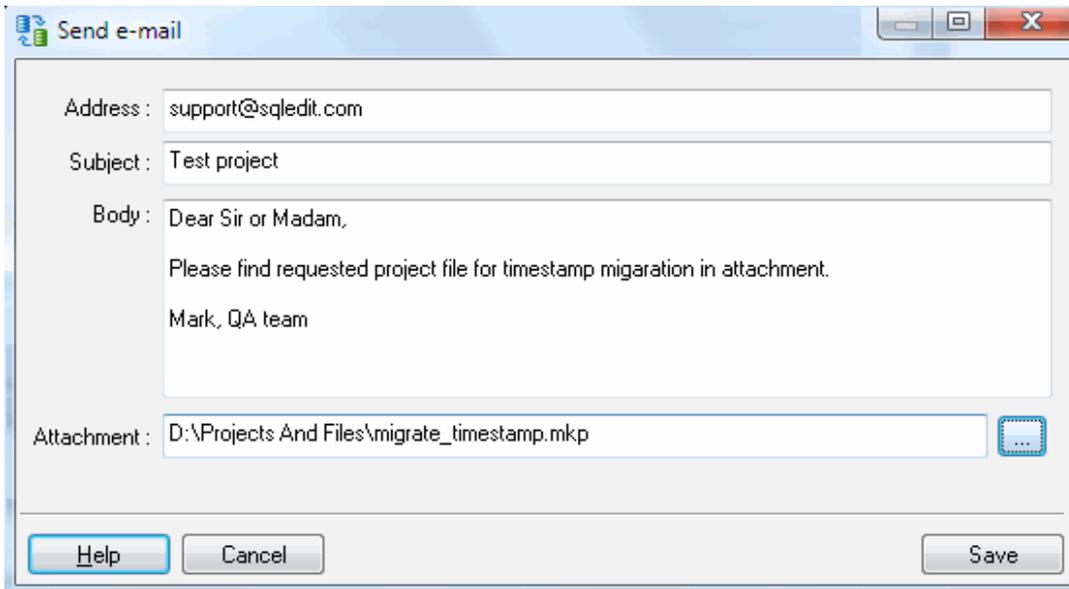
Clear table before import or migration Allow to insert identity (for MS SQL only)

Also, you can select "clear target table" before import or migrate mode.

"Allow to insert identity" option is applicable to Microsoft SQL Server databases only and allows to copy 'identity' values as is. Otherwise, identity will be reset in the target database.

Send E-mail Properties

This window allows you to enter properties of e-mail message. Only Address is mandatory field.



Send e-mail

Address : support@sqledit.com

Subject : Test project

Body : Dear Sir or Madam,
Please find requested project file for timestamp migration in attachment.
Mark, QA team

Attachment : D:\Projects And Files\migrate_timestamp.mkp

Help Cancel Save

Important: the program uses default mail client to send the message.

Output SQL Files Specification

This page helps you to select SQL files for scripts produced during clear, migration or import.

The program generates three optional scripts. There are: all statements, successfully executed statements and rejected statements. The user can switch each type on or off independently.

When "truncate file" option is switched off the program appends new statements to end of specified files.

"Don't execute" option instructs the migration kit to create SQL scripts only but do not actually execute them. Please note that "rejected" list is empty in this case: all statements will be marked as successfully executed.

Also, this page provides a way to specify SQL statement delimiter. The program will add it after each generated SQL statement. The user can select one of the predefined values like "go" or ";" or specify custom one.

The transaction size (200 statements by default) allows to tune program performance. "0" value means automatic commit, i.e. each SQL statement is one transaction.

This page allows you to select an optional SQL files for the transformation process

Save generated SQL script to file
d:\scripts\Nor2.sql

Save successfully executed SQL statements to file
d:\scripts\Nor2_or.sql

Save rejected SQL statements to file
d:\scripts\Nor2_wrong.sql

Truncate scripts before each rule execution

Don't execute generated statements, create migration script only

Transaction size 0 means execute one statement per transaction

Records Mode Selection

There are three ways to import or migrate source records: insert all records (by default), insert only new records and update records (new ones are inserted and existing ones are updated).

There are two ways to make the program correctly find an existing record or detect a new one: use primary keys or search by user-specified column(s). We recommend that you use the second way only when the target database does not support primary keys (like Excel) or the target table has no primary key.

Note that you specify the columns for searching in the source table. The program will use mapping to find the corresponding target columns.

Data import or migration mode

Import or migrate all data (all records will be inserted into target data source)

Use only new records

Update mode: new records will be added, existing records will be updated

Record check method

Use Primary key

Select compare columns manually

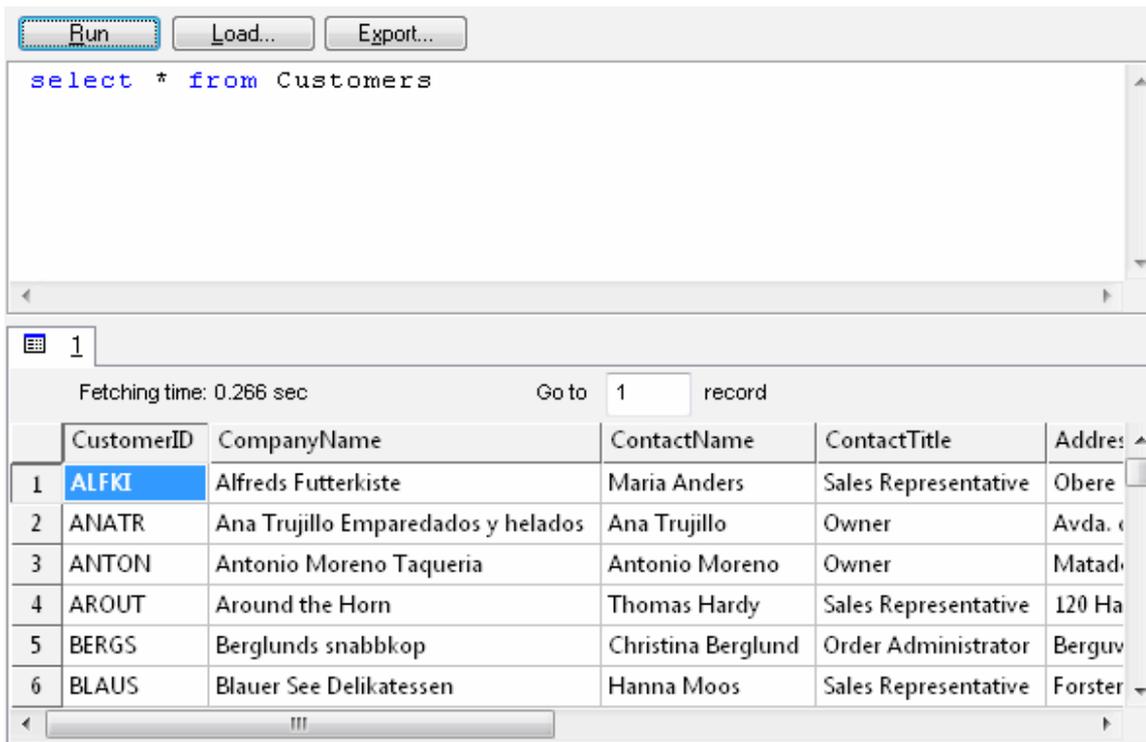
| Column Name | Data Type | Null | PK | Comment | |
|--|------------|------|----|---------|--|
| <input checked="" type="checkbox"/> SeatID | SMALLINT | Y | Y | | |
| <input type="checkbox"/> Row | VARCHAR(1) | Y | | | |
| <input type="checkbox"/> Seat | SMALLINT | Y | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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.

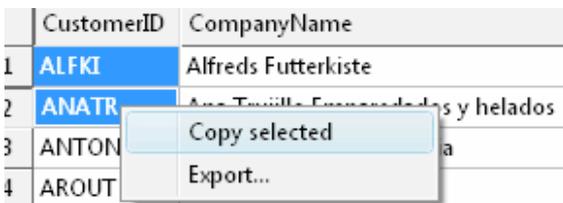


The screenshot shows the SQL Console interface. At the top, there are three buttons: "Run", "Load...", and "Export...". Below the buttons is a text area containing the SQL query: `select * from Customers`. Below the text area is a table with the following data:

| | CustomerID | CompanyName | ContactName | ContactTitle | Address |
|---|------------|------------------------------------|--------------------|----------------------|------------|
| 1 | ALFKI | Alfreds Futterkiste | Maria Anders | Sales Representative | Obere... |
| 2 | ANATR | Ana Trujillo Emparedados y helados | Ana Trujillo | Owner | Avda. c... |
| 3 | ANTON | Antonio Moreno Taqueria | Antonio Moreno | Owner | Matad... |
| 4 | AROUT | Around the Horn | Thomas Hardy | Sales Representative | 120 Ha... |
| 5 | BERGS | Berglunds snabbkop | Christina Berglund | Order Administrator | Berguv... |
| 6 | BLAUS | Blauer See Delikatessen | Hanna Moos | Sales Representative | Forster... |

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.



The screenshot shows a close-up of the results window. A context menu is open over the table, showing the following options:

- Copy selected
- Export...

What differences between the demo and full versions of DTM Migration Kit?

General functions

- Demo version allows the user to import, export or migrate not more than 6 rows per rule.

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 (mk.exe or mk_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 Migration Kit 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 Migration Kit components and all records in the Windows registry made by the installation script. You can uninstall this program by selecting the "**DTM Migration Kit**" 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.



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How can I order DTM Migration Kit 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/mk/order.html> to your web browser.

If you have any payment questions feel free to contact the DTM Migration Kit technical support at support@sqledit.com

If you have some question or unusual problem feel free to contact the DTM Migration Kit technical support at support@sqledit.com

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

- DTM Migration Kit 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 Migration Kit 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](#)

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

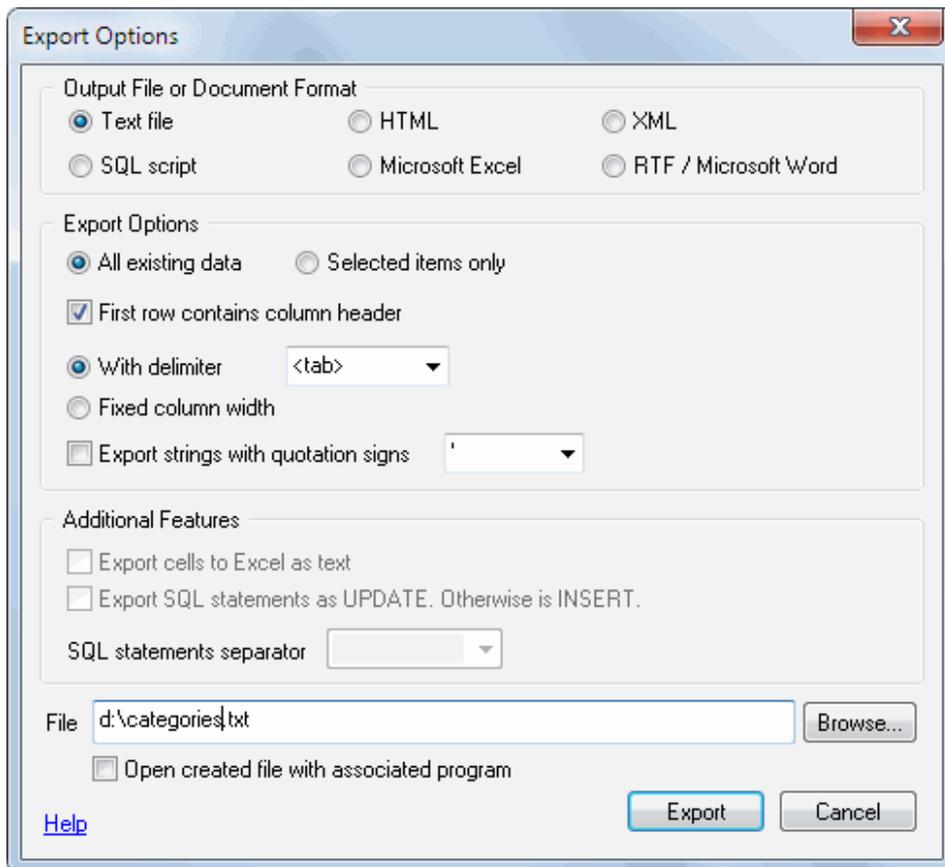
SQL statement - single SQL operator having the complete role in a data manipulation script.

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 Migration Kit saves log to typical path like C:\Documents and Settings\\Application Data\mk.log or C:\Users\\AppData\Roaming\mk.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.