

1. Overview of SqlDbx



SqlDbx is database administration and SQL development IDE focused on application developers who work in heterogeneous database environments.

Features at a glance:

- High performance native support for major Database Servers including Microsoft, Sybase, Oracle and IBM DB2/UDB
- Browse / Explore Servers
- Fast, intelligent, extensive and highly customizable Intellisense
- Advanced script Editor with Syntax highlighting, Auto Complete, Speed Typing, Drag/Drop, Undo/Redo, Find/Replace
- Unicode support
- Visual Data Diff
- SQL Scripting
- SQL Formatter / Beautifier
- Generate SELECT, INSERT, UPDATE, DELETE, WHERE IN data modification statements directly from result grid
- SQL templates with replaceable formal parameters
- Import / Export to CSV, XML, Excel
- Schema object browser
- SQL statement history
- Favorite objects
- Search in Database and in Result grid
- Directly edit table data in Result grid
- Display query plan and query statistics
- Simple deployment and removal. No dll's or other dependencies. Just one executable (1.4 meg.)

Supported DBMS Systems

- Oracle® 8i - 11g
- Microsoft® SQL Server 6.5 - 2008
- IBM DB2® LUW 7.x - 9.x
- IBM DB2® z/OS 7.x - 9.x
- IBM DB2® iSeries 5x - 6.x
- Sybase ASE® 10.x - 15.x
- Sybase Anywhere® 9.x - 11.x
- Sybase IQ® 12.5 - 12.7

- ODBC 3.0 compliant sources

2. Using SqlDbx

Using SqlDbx

SqlDbx window divided into three panes: [Object Pane](#), [Script Editor](#) and [Results Pane](#)

[Editor Shortcuts](#)

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2.1 Quick Start

Quick Start

When You start SqlDbx it automatically shows Server Login dialog. Select correct Server type, enter Server name, Database, User and Password and click button Login. If server found and client software installed correctly new [SQL Editor](#) window will open.



Set Alias button can be used to create alternate user friendly name for the Server. Also it is useful when you connect to the same server using different credentials. Use Alt. Background and Text color check box allows to specify alternate text and background colors. This allows to visually differentiate between production and development Servers. Set Alias button allows to create multiple aliases for the same Server. You can create it by directly typing into Server combo box. Make sure that actual Server name enclosed between "(" and ")"

[Using SqlDbx](#)

2.2 Editor Keyboard Shortcuts

Editor Keyboard Shortcuts

Load / Save

Ctrl + N	New Script
Ctrl + O	Open file
Ctrl + S	Save active script
Ctrl + Shift + S	Save active script with different name
Ctrl + D	Close active script tab

Cursor Movement

Left	Move cursor one character left
Right	Move cursor one character right
Up	Move cursor one line up
Down	Move cursor one line down
Ctrl + Up	Scroll screen up
Ctrl + Down	Scroll screen down
Ctrl + Right	Move cursor one word right
Ctrl + Left	Move cursor one word left
End	Move to end of line
Ctrl + End	Move to end of last line in file
Home	Move to beginning of line
Ctrl + Home	Move to beginning of file

Edit

Ctrl + Y	Delete current line
Ctrl + Shift + Delete	Delete all
Ctrl + Delete	Delete to start of word to the right
Ctrl + Backspace	Delete to start of word to the left
Insert	Switch between overwrite and insert mode
Ctrl + C	Copy to Clipboard
Ctrl + V	Paste from Clipboard formatted as SQL
Ctrl + Shift + V	Paste from Clipboard Excel style
Alt + Shift + V	Paste as column block
Ctrl + Alt + V	Paste as column block (fill)
Ctrl + X	Cut to Clipboard
Ctrl + Z, Alt + Back	Undo
Shift + Tab	Indent to the left
Ctrl + Shift + C	Comment selection out
Ctrl + Shift + R	Un comment selection

Ctrl + Shift + U	Convert selection to upper case
Ctrl + Shift + L	Convert selection to lower case
Ctrl + Shift + M	Replace template parameters

Selection

Ctrl + A	Select all
Alt + Left Mouse Button	Start column (block) selection
Alt + C	Set block selection on. Use Shift + Arrow keys to extend selection
Shift + Left Mouse Button	Extend selection to click point
Ctrl + B	Select SQL block starting from current position
Ctrl + Shift + B	Select current block delimited by empty lines
Shift + Left	Extend selection to the Left
Shift + Right	Extend selection to the right
Shift + Up	Extend selection one line up
Shift + Down	Extend selection one line down
Shift + Home	Extend selection to the beginning
Shift + End	Extend selection to the end
Shift + Page Down	Extend selection one page down
Shift + Page Up	Extend selection one page up
Ctrl + Shift + Home	Extend selection from current position to the beginning of script
Ctrl + Shift + End	Extend selection from current position to the end of script
Ctrl + Shift + Left	Extend selection to the beginning of current word
Ctrl + Shift + Right	Extend selection to the end of current word

Bookmarks

Ctrl + F2	Toggle bookmark
F2	Go to next bookmark
Shift + F2	Go to previous bookmark
Ctrl + Shift + F2	Clear all bookmarks

Miscellaneous

Ctrl + E, F5	Execute SQL statement
Ctrl + F	Show Find dialog
F6	Quick Find
F3	Find next
Shift + F3	Find previous
Ctrl + G	Go To Line
Ctrl + J	Format selected SQL
Ctrl + M	Highlight all words like the one under the cursor

Ctrl + H	Show Replace dialog
Ctrl + Page Down	Next Script window
Ctrl + Page Up	Previous Script window
Ctrl + 1	Switch focus between Editor and Results
Ctrl + 2	Switch focus between Editor and Object List
Ctrl + 3	Set focus to Script Editor
F7	List Tables
F8	List Procedures and Functions
F9	List System Functions

2.3 Results Grid Keyboard Shortcuts

Results Grid Keyboard Shortcuts

Cursor Movement

Up	Move one cell up
Down	Move one cell down
Right	Move one cell right
Left	Move one cell left
Ctrl + Up	Move up to the edge of data region*
Ctrl + Down	Move down to the edge of data region*
Ctrl + Right	Move right to the edge of data region*
Ctrl + Left	Move left to the edge of data region*
End	Enables "End" mode
Ctrl + End	Move to the last grid cell
Home	Move to the first column in current row
Ctrl + Home	Move to the first grid cell

Selection

Left Mouse Button in top left corner	Select all
Shift + Left Mouse Button on Column Header	Select all column
Shift + Left Mouse Button in grid area	Extend selection from active cell to clicked cell
Left Mouse Button on Row Header	Select all row
Ctrl + Left Mouse Button	Begin new selection without clearing current selection
Shift + Left	Extend selection one cell left
Shift + Right	Extend selection one cell right
Shift + Home	Extend selection to the first grid cell
Shift + End	Extend selection to the last grid cell
Shift + Down	Extend selection one cell down
Shift + Up	Extend selection one cell up
Shift + Page Down	Extend selection one page down
Shift + Page Up	Extend selection one page up
Ctrl + Shift + Home	Extend selection to the first grid cell
Ctrl + Shift + End	Extend selection to the last grid cell
Ctrl + Shift + Left	Extend selection left to the edge of data region*
Ctrl + Shift + Right	Extend selection right to the edge of data region*
Ctrl + Shift + Up	Extend selection up to the edge of data region*
Ctrl + Shift + Down	Extend selection down to the edge of data region*

Clipboard

Ctrl + C	Copy to Clipboard
Ctrl + Shift + C	Copy to Clipboard with column headers

Ctrl + Alt + C	Copy to Clipboard column headers only
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Miscellaneous

Ctrl + Shift + N	New Result tab
Ctrl + Shift + D	Close active Result tab
Left mouse button double click on column header	Toggle column sort ascending / descending
Ctrl + Left mouse button on column header	Add column sort
Left mouse button on column header and drag	Rearrange columns

* - data region: A range of cells that contains data and is bounded by empty cells

2.4 SQL Script Editor

Script Editor

SQL Editor window provides broad range of editing capabilities. Look and feel can be configured in Options Dialog on Editor page. You can drag and drop text between different windows. To open a new script window press Ctrl + N

[SQL Editor Keyboard Shortcuts](#)

[Editing Scripts](#)

[Executing Scripts](#)

2.5 Intellisense

Using Intellisense

Intellisense is configured in Options dialog on Editor page.

Intellisense and temporary tables in MS Sql Server and Sybase ASE. For intellisense to work with temporary they have to be created and then "referenced". Referenced means that you have to type something in Editor to cause the information about them loaded. For example if you created temporary table named #tmp then just type #tmp. and after that #tmp table will start to show up in Intellisense list window.

If you drop and recreate temporary table with different definition you have to refresh objects in a left pane in order to reset Intellisense information for temporary tables.

Intellisense Options Description

Enable Intellisense	Enables or completely disables following options
Include System Tables	Display System Tables in Intellisense list
Include System Procedures	Display System Procedures in Intellisense list
Include Schemas/Databases	Display objects from other Schemas (Oracle, DB2) or other Databases (Sybase, MS)
Enable Auto Complete For:	Enables or disable following options
Keywords	Displays and enables autocomplete for Keywords
User Objects	Displays and enables autocomplete for User Objects
System Objects	Displays and enables autocomplete for System objects
Capitalize Keywords	Automatically capitalizes Keywords after you type space or separator character
Capitalize Procedures/Functions	Automatically capitalizes Procedures/Functions

2.6 Script Variables

Script Variables

Script Variables provide you with the flexibility of using a single script in multiple scenarios. For example if you need to run single script against multiple databases, instead of modifying the script for each database, you can use a scripting variable for the database name. You define Script Variable by using following syntax:

```
DEFINE var_name [=] [var_value] | [CHAR | VARCHAR | NUMBER | INT | INTEGER | NUMERIC | DECIMAL]
```

where:

- = - optional assignment operator
- var_name - variable name
- var_value- optional variable value
- CHAR, VARCHAR, ... - optional variable type

To reference script variable you use following syntax: for all databases except Oracle: \$(var_name). In case of Oracle: &var_name

Script variables can appear anywhere in text

Example of using Script Variables:

Simple substitution

```
DEFINE var_date = 01/01/07
DEFINE var_string 'String_Value'
SELECT * FROM table_name where date_field = '$(var_date)' and string_field = $(var_string)
```

The above select statement will be converted to:

```
SELECT * FROM table_name where date_field = '01/01/07' and string_field = 'String_Value'
```

Parameterized Query with substitution parameters

```
DEFINE var_date
DEFINE var_string
```

Parameterized Query with type safe substitution parameters

```
DEFINE var_date DATE
DEFINE var_string VARCHAR
SELECT * FROM table_name where date_field = '$(var_date)' and string_field = $(var_string)
```

If you try to execute script above then window will popup asking to supply values for defined variable which do not have values assigned to them. This will be happen every time you execute above script because DEFINE statement will reset variable value to nothing. If Script variable contains type declaration then SqlDbx will try to convert specified values to corresponding type. If conversion fails then query will not be executed. For example if you specify string_value for var_string then it will be enclosed in single braces automatically or if type declared as DATE and your database is Oracle then it will be replaced by

function TO_DATE(var_date, 'YYYY-MM-DD'). If no type specified or variable value provided then no conversion will apply.

Script variables maintain values until they changed by DEFINE command.

Script Variables naming rules

- Variable names must not contain white space characters
- Variable names must not have the same form as a variable expression, like \$(var)
- Scripting variable names are not case-insensitive

2.7 SQL Templates

Using SQL Templates

Templates are files containing SQL scripts that help you use predefined code templates. Template files should be copied to a directory defined in Options->General->Templates. Files should be copied into one of the subdirectories of path specified in Options. Template files are ordinary text files containing SQL code. The template files can use formal parameters to help you customize the code. Template parameter definitions use following format:

<parameter_name, data_type, value>

where

- *parameter_name* is the name of the parameter in the script.
- *data_type* is the data type of the parameter (optional).
- *value* is the value that is to replace every occurrence of the parameter in the script (optional).

Example:

```
CREATE PROCEDURE <procedure_name>
AS
BEGIN
END <procedure_name>;
```

Use the Replace Template Parameters dialog box to insert values into the script.

Note You can use the Replace Template Parameters dialog box to specify values any time a parameter definition is used in code. For example, when you script execute function from Object View, the function written to the current Script window will contains parameter definitions for any arguments in the function. You can, therefore, use the Replace Template Parameters dialog box to specify argument values. Also if you have text selected in Editor and invoke Replace template Parameters dialog then only selection will be checked for any template parameters

It is possible to specify cursor position in template. Put symbol "^" anywhere in the template text.

To use a template

- Open a Script window.
- If template manager window is not visible press Manage SQL Templates button on the toolbar.
- Navigate to desired template and select Insert Template menu item or double click left mouse button.
- When the template is displayed in the Script window, select Replace Template Parameters button on the toolbar.
- In the Replace Template Parameters dialog box, specify values for the parameters.
- To insert the specified values into the script in the Editor pane, click Replace.

2.8 Speed Typing

Speed Typing

Speed typing configuration is accessible through menu Tools->Configure Speed Typing. Speed type definitions saved in a file whose name and location specified in Options general tab.

Speed typing allows to define strings which automatically expanded when typed. Speed typing is integrated in Intellisense and Auto complete. Speed typing also supports substitution parameters.

Examples:

1. Simple replacement. If Shortcut column contains sla and column Substitution Value contains `SELECT * FROM` then when you type sla in Script Editor and press space it will be replaced by `SELECT * FROM`
2. Use Speed typing to add Auto Complete strings. Simply enter desired string into Shortcut column and leave Substitution column blank
3. Using formal parameters:
If Shortcut column contains

```
sla (var_date, var_string)
```

and Substitution column contains

```
SELECT * FROM TABLE_NAME where date_col = '$(var_date)' and string_col = '$(var_string)'
```

then when in Script Editor you type:

```
sla (01/01/07, string_value)
```

it will be expanded into:

```
SELECT * FROM TABLE_NAME where date_col = '01/01/07' and string_col = 'string_value'
```

To specify cursor position in Editor after speedword expansion put symbol '^' anywhere in text

2.9 Visual Diff

Using Visual Diff

Visual Diff allows to compare files or results from queries, procedures or any other valid SQL statement which can be executed on different servers. To get meaningful results when comparing data You have to consider couple of things. Results should have identical number of columns, do not include volatile columns like timestamp and columns should be sorted in a same order if possible.

Visual Diff offer Quick Diff option. To use this option just do one of the following: select text in Editor or Result grid and drag / drop it to "Quick Diff" toolbar button on the main menu. After you do it twice Visual Diff screen will open automatically displaying difference. Also right click popup menu in Editor and Result grid has an option to execute "Quick Diff"

2.10 Export / Import

Export / Import table data

Export to File

Select Export To->File menu item from table popup menu. Saved file can be later opened as script file and executed directly.

Import from File

You can import previously exported data by selecting Import From->File menu item from table popup menu. If table name in the file different from selected table it will be automatically replaced. Also file can be opened as ordinary file in Script Editor.

Export to Excel

Select Export To->Excel menu item from table popup menu to copy all table data to Excel

Import from Excel

You can import table data from Excel by first selecting range in Excel which contains table data with table column names in the first row. Order of columns is not important. Some column can be omitted too. To import data from Excel select table into which you want to import data. Right click and select Import From menu item. Select menu item with Excel session in which you previously selected data. Data from Excel will appear in a new Script Editor window as a series of INSERT statements. Now you can edit or execute script to insert data into the table.

2.11 Generate Scripts

[Generate Scripts Help](#)

This dialog allows to generate DDL scripts for the current Schema / Database.

2.12 Server Explorer

Using Server Explorer

SqlDbx organizes information about servers in Server Explorer window. The Server Explorer provides fast and efficient way to access database objects. The Server Explorer contains multiple panels for each Server type with a tree control for each type. The tree organizes database objects as tree branches. By expanding or collapsing tree nodes you can easy browse and explore database objects. The Server Explorer includes two panes. Left pane displays database objects of currently selected Server and right pane shows summary for them.

2.13 Options

Options

Options Dialog is accessible from toolbar or Main Menu->Tools.

[General Options](#)

[Editor Options](#)

[Colors](#)

[Results Options](#)

[Scripting Options](#)

[Import / Export](#)

[Servers](#)

2.14 Command Line Options

Command Line Options

Usage: SqlDbx [-t] [-s] [-d] [-u] [-p] [-n] [-l] [[-q script file [-r]] [-w workspace file]

Arguments

-t server_type	Can be one of the following: microsoft, sybase, oracle, ibm, mysql, odbc
-s server_name	Server to which to connect
-d database_name	Database / Schema name
-u user	User name. If -U and -P not supplied try to login using integrated security
-p password	User password
-n	Start new instance of SqlDbx. If -n not specified then pass arguments to the instance started with none found then start new instance.
-l	Write debug log to SqlDbx.exe.log
-q script file	open specified script file
-r	if -q option specified then run loaded script
-w workspace file	load previously saved session state
-c	Clear registration information

Command line flags are not case sensitive and space after them is optional

*Command line options are supported only in SqlDbx Professional Edition

2.15 Quick Tips

Tips

Quick tips

- | | |
|----|---|
| 01 | Intellisense works better and in more cases when table names use aliases For example:
select *from table_name1 T1, table_name1 T2 where T1.column_name = T2.column_name ... |
| 02 | You can enable automatic save / restore of SqlDbx session state by checking Enable Session State check box on Gen |
| 03 | Speed typing allows to create aliases for often used SQL blocks. For examples you can add string "sla" as alias for "s
Typing |
| 04 | Generate SELECT/UPDATE/INSERT/DELETE allows quickly to script SQL DML statements. |
| 05 | If you want to quickly access object properties just click on object it in Editor and press Alt-F1 |
| 06 | You can directly edit table data in Result Grid for tables with unique constraints |
| 07 | Templates allow to organize snippets of code. |
| 08 | Results Grid supports sorting and moving columns. Also it supports multiple selections. Hold Ctrl key while selecting |
| 09 | Quickly select SQL block by placing cursor on first character and then press Ctrl+B |
| 10 | Quickly export data from table. Execute select * from <table_name>, then select everything in Grid Results by clicki
Generate->Insert from right click menu |
| 11 | Filter data in Results Grid by selecting Filter menu item from right click popup menu |
| 12 | Replace Template parameters works not only for templates but with any text enclosed in angle brackets "<...>" |
| 13 | You can directly execute procedures and functions from Object View pane |
| 14 | You can execute procedures from Editor by righ clicking on procedure name |
| 15 | Results of any query operation will be put in a new Result Tab if you hold Shift key while selecting query action |

3. Script Editor

Script Editor

SQL Editor window provides broad range of editing capabilities. Look and feel can be configured in Options Dialog on Editor page. You can drag and drop text between different windows. To open a new script window press Ctrl + N

[SQL Editor Keyboard Shortcuts](#)

[Editing Scripts](#)

[Executing Scripts](#)

3.1 Editing Scripts

Editing Scripts

Script Editor supports most common editing functions. For list of keyboard shortcuts see [Editor shortcuts](#). In addition Editor supports Column or Block mode. Block mode entered by pressing Alt + C key or Alt + left mouse button.

Also Editor supports multi line cursor mode. To enter this mode hold Alt + C key or Alt + left mouse button and then move up or down. When you see thin red vertical line it means you are in multi line cursor mode. In this mode everything you type will be replicated on all lines.

Script Editor supports different ways to paste data from clipboard. Data from [Results Grid](#) can be pasted in two different ways. Ctrl + V will paste it in a format suitable for use in SQL statements. Ctrl + Shift + V will paste it in tab separated form. Some other additional paste options provided on right click popup menu or on Main Menu->Edit under Paste Special.

3.2 Executing Scripts

Executing Scripts

To execute whole script in Script Editor make sure that there's no selection and then use either toolbar button or Editor popup menu item "Execute" or one of the shortcut keys. By default "Execute" assigned to F5 and Ctrl+E. If you want to execute part of the script simple select it and then use the same method as above. To execute text on a current line just press Ctrl+Enter.

If you want to output results into new Result Grid hold Shift key down while executing query

4. Object Pane

Object Pane

Object pane organizes different database objects in different bars on a left side. To activate bar simply click on it. Bar title displays type of the object and number of objects of this type in a current Schema / Database.

[Working with object pane](#)

4.1 Working with Object Pane

Using Object Pane

Object pane displays different kind of database objects grouped by type. Each bar displays objects of the same type. To find object within the pane press Ctrl+F and then start typing. Based on a type of object right click will popup menu with actions you can perform. You can drag and drop objects from Object Pane to Editor window.

Object Pane popup menu description

SELECT *	For tables and views selects all data
Script Create	Scripts object CREATE statement in current or new editor window
Script Select	For tables and views generates SELECT statement
Script Update	For tables and views generates UPDATE statement
Script Insert	For tables and views generates INSERT statement
Script Execute	For procedures and functions generates execute statement with template parameters Template Parameters
Execute	Executes procedure or function
Script Permissions	Generates object permissions
Drop	Drop selected object
Edit Table Data	Allows to directly edit table data in Results Grid Table has to have PRIMARY KEY or IDENTITY or UNIQUE KEY
Export Data To	See Export / Import
Import Data From	See Export / Import
Add to Favorites	Adds object to Favorites Bar in Object Pane
Locate in Script	Locate CREATE statement for selected object in the active Editor window
Object Search	Wildcard search for object in Object Pane
Scripting Options	Displays Scripting Options page
Properties	Displays all properties for selected object

Keyboard Shortcuts for Object Pane

Shift + E	Favorites
Shift + O	System Objects
Shift + T	Tables
Shift + V	Views
Shift + S	Sequences
Shift + P	Procedures
Shift + F	Functions
Shift + R	Triggers
Shift + K	Packages

Shift + N	Synonyms
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5. Results Pane

Working with Results Pane

Results Pane has two tabs. First tab displays results of a query either in Grid or formatted text form. Second tab displays error and informational messages.

[Results Grid](#) can be used to perform different actions on a data returned from a query.

Results pane has a status bar which displays following information:

- Completion status and text of a last executed query
- Current schema or database
- Stored procedure result. Works for Sybase only
- Query time
- Number of batches executed
- Number of rows affected

5.1 Results Grid

Working with Results Grid

Result Grid has two modes: Results Display mode and Table Data Edit mode.

Results Display Mode

In Display query mode you can execute actions described below in a table. Generate SELECT/INSERT/DELETE/UPDATE for dates and string uses settings from [Import / Export](#)

Table Edit Mode

Table Data edit is entered when you select "Edit Table Data" from table popup menu in [Object Pane](#). In this mode you can directly edit data in underlying table. When entering string values you do not need to enclose them in single quotes. To assign NULL value to a column leave content of cell empty. To enter empty string type two single quotes. Dates can be entered in any format which can be converted to date. If conversion to date fails nothing will be changed. Change in underlying table happens when you leave cell. At this point explicit COMMIT executed.

Grid popup menu actions

Results in New Window	Display current results in a new window
Generate	
SELECT	Generates select statements for current selection
INSERT	Generates insert statement for current selection
UPDATE	Generates UPDATE statement for current selection. If table has unique constraint then will use it, otherwise will use selected columns in update clause
DELETE	Generates DELETE statement for current selection. If table has unique constraint then will use it, otherwise will use selected columns in delete clause
WHERE IN ()	Generates WHERE IN statement for current selection
ORDER BY ()	Generates ORDER BY statement for current selection
GROUP BY ()	Generates GROUP BY statement for current selection
CREATE TABLE ()	Generates CREATE TABLE statement based on current selection
Column Format	Allows to quickly change column display format
Filter	Allows to quickly filter rows based on a value in current cell
Get Child / Parent Rows	Allows to quickly retrieve Child / Parent rows based on a FOREIGN KEY constraint defined for selected rows
Find in Results	Find in Results
Copy	Copy selection to Clipboard. Data copied in two different formats
Copy With Column Name(s)	Same as above only includes column names
Copy Column Name(s)	Copy only column names to Clipboard
Export to Excel	Export selection to Excel

Export to File	Export selection to File
Results	Switch column and rows
Add Result Tab	Add new result tab if option Multiple Results Tabs enabled
Delete Result Tab	Delete current result tab
In Grid	Display query results in Grid
In Text	Display query results in Text
Transpose	Switch column and rows
Freeze Columns	Freeze columns to the left of current cell
Show Column Types	Display column type below header in Grid
Show Column Totals	Show total for numeric columns in current selection

Notes

Generate feature by default copies generated statement to a current cursor position in Script Editor.

If you hold Ctrl key down when using generate then statement will be copied at the end of current script

6. Options

Options

Options Dialog is accessible from toolbar or Main Menu->Tools.

[General Options](#)

[Editor Options](#)

[Colors](#)

[Results Options](#)

[Scripting Options](#)

[Import / Export](#)

[Servers](#)

6.1 General

General Options

Settings on this page control

General Options Description

Directories	
Script Files	Default directory where to store script files
Results Files	Default export directory
Backup Files	Default backup directory
File Browser	Default root directory for File Browser and SQL Templates
Speed Typing	Directory and name of Speed Typing file
Config Files	Default directory where Session State and favorite objects files stored
Settings	
Backup Modified Files	Create backup files
Show System Objects	Enables System Objects bar in Object pane
Alternate Window Layout	Switches between two predefined windows layouts
Enable Session State	Enables automatic save of SqlDbx state on exit
Open Session connections	Connects to Database during loading of Session State
File Extensions	Specifies extensions and filters for Open and Save dialogs
File Associations	List of extensions in following format: *.sql;*.qry
Language	Set user interface language

6.2 Editor

Editor Options

This page contains settings for Script Editor

Editor Options Description

Selection Margin	Display selection margin on a left side
Show Line Numbers	If selection margin enables displays line numbers
Outline Margin	Enable outline margins for hide / show rows
Auto Indent	Auto indent next line when "Enter" key pressed
Allow Virtual Spaces	Allow cursor to go beyond line end
Use I - beam Cursor	Use I-beam or underscore cursor
Fonts	
Screen Font	Allows to select Editor font
Printer Font	Allows to select Printer font
Tabs	Controls number of tabs
Tab Size	Controls number of tabs
Keep Tabs / Insert Spaces	Inserts spaces or keeps tabs when "Tab" key pressed
End of Line Style	Controls how end of line set in file when saved
Intellisense	See Intellisense

6.3 Colors

Color Options

This page allows to assign colors to different types of database objects. Also it allows to assign alternative background and text color for specific connections. Usually it used to differentiate connections to production and development servers. In order to use alternative colors you have to check "Use Alt. colors" on a Login dialog.

6.4 Results

Results Options

Results options

Results Grid Options

Data Format	
Date Format	Allows to select Grid date format
Time Format	Allows to select Grid time format
Max Decimals	Maximum number of decimals to display
Right Align Dates, Timestamps, Numbers	Right align dates in Grid
Do Not Show Time if Not Present	If date does not have a time portion then do not display time
Thousands Separator	Use thousands separator to format numbers
Always Use '.' as Decimal Separator	Force dot as decimal separator
Trim Trailing Zeroes	Trim trailing zeroes
Do Not Use Date Format For Timestamps	Do not use date format to format TIMESTAMP columns
Grid Font	Allows to select Grid font
Results Location	Allows to select where query results displayed
Grid Colors	Allows to assign background color to odd and even rows
Set Focus to Grid After Execute	Set focus to grid after query completes
Multiple Result Tabs	Enable option to add Result Tabs. Applies to new connections
Show Column Types	Display column types under the header in Grid
Rows Limit On	Maximum number of rows to retrieve

6.5 Scripting

Scripting / Log Options

These settings are used when Objects scripted from [Object Pane](#)

Scripting Options Description

Script DROP for tables, views	Script DROP statements for tables, views
Script DROP for procedures	Script DROP statements for procedures, functions
Use ALTER / REPLACE	Use ALTER / REPLACE for procs, functions if available
Script Object Level Permissions	Script object level permissions
Script Object Owner/Schema	Script object Owner / Schema
Script Object Physical Properties	Script object physical properties
Script Collation Clause	Script table collation clause
Script GRANT TO PUBLIC	Script GRANT TO PUBLIC
Script Object in New Window	Script object in new Script Tab

Log Options Description

Enable SQL Log	Enable SQL logging
Log File per Server	One log file for each server
Monthly / Daily (Checked)	Start new log file every month or every day
Include Results	Include query results in a log file
Log Directory	Directory where to create log files

6.6 Import / Export

Import / Export Options

These options control settings used when generating export files

Export Options Description

Date Format	Allows to select date format
Row Delimiter	Row delimiter
Field Delimiter	Field delimiter
Literal Quote	Character to use for string escaping
Date Quote	Character to use for date escaping
Include Column Names	Include column names in export file

6.7 Servers

Servers Options

Server Options pages allow to specify settings for different servers.

[Oracle Help](#)

[Sybase Help](#)

[Microsoft Sql Server Help](#)

[IBM DB2 Help](#)

[ODBC Help](#)

7. Oracle Help

Oracle Help

Supported versions:

8.1.5

8i

9i

10g

[Oracle How To](#)

[Oracle Bind Variables](#)

[SQL*Plus support](#)

7.1 Oracle How To

Oracle How To

Connectivity problems

SqlDbx relies on Oracle client being installed on client computer. SqlDbx dynamically tries to load oci.dll. If this dll not found then you will encounter error message about client software not being properly installed. Check that oci.dll is available and PATH environment variable includes path to it.

Working with multiple Oracle Homes

When connecting to database you can select which Oracle Home to use when connecting to Server. After first connection established all subsequent connections will use the same Oracle home regardless of what selected in Home combo box in Login dialog. Also you can create your own Oracle Homes in SqlDbx. It can be useful for example when Oracle Instant client used. User defined Oracle Homes can be added in Options dialog on Oracle page. String should consist of two strings separated by comma. First one specifies name for Home and second specifies path to a directory where OCI.DLL located. includes path to it.

7.2 Bind Variables

Oracle Bind Variables

SqlDbx supports bind variables which similar to SQL*PLUS Bind Variables.

Creating and using Bind Variables

You create bind variables with the VARIABLE command. For example

```
VARIABLE varName1 VARCHAR2
VARIABLE varName2 NUMBER
VARIABLE varName3 CLOB
VARIABLE varName4 REF_CURSOR
```

You reference bind variables in scripts by typing a colon (:) followed immediately by the name of the variable. For example

```
VARIABLE ret_val NUMBER;
BEGIN
  :ret_val := 2;
END;
```

After executing this block you will see output in grid automatically

Using REF_CURSOR Bind Variables

REF_CURSOR bind variables allow to fetch and display results of a SELECT statement contained in PL/SQL block or they can be used to reference PL/SQL cursor variables in stored procedures and functions. Also REF_CURSOR bind variable can be returned from a stored procedure.

```
VARIABLE employee_info REF_CURSOR
BEGIN
  OPEN :employee_info FOR SELECT EMPNO, SAL FROM SCOTT.EMP;
END;
```

After executing this block results automatically will be displayed in grid.

Using REF_CURSOR Variables in stored procedures

```
CREATE PROCEDURE EmpReport (emp_ref IN OUT REF_CURSOR)
AS
BEGIN
  OPEN emp_ref FOR SELECT EMPNO, SAL FROM SCOTT.EMP;
END;

VARIABLE rc REF_CURSOR;
BEGIN
  EmpReport (:rc);
END;
```

7.3 SQL*Plus commands

SQL* Plus support

SqlDbx currently does not support SQL*Plus commands. The only supported commands is VARIABLE and DEFINE, all others ignored. You still can execute SQL*Plus scripts but it is possible you will get errors in certain situations. For example if scripts prompts for variable value using &&name method. Support for some SQL*Plus commands is planned for future release of SqlDbx.

You can use "/" as a command separator. Typing / will not run the content of the buffer but will serve as batch separator when you execute part or the whole script.

Supported SQL*Plus functionality:

SqlDbx supports SQL*Plus substitution variables with some minor differences. For details of how to use substitution variables click here [Script Variables](#)

8. Microsoft SQL Server Help

SQL Server Help

Supported versions

6.5
7.0
2000
2005
2008

[SQL Server How To](#)

8.1 Sql Server How To

SQL Server How To

Integrated security

In case of integrated security when you connect to SQL Server do not specify user name and password

9. Sybase Help

Sybase Help

Supported versions

Sybase ASE 10.x - 15.x

Sybase IQ 12.5 - 15.x

Sybase Anywhere 9.x - 11.x

[Sybase How To](#)

9.1 Sybase How To

Sybase How To

Sybase ASE

SqlDbx relies on Sybase Open Client installed on local computer. If while trying to connect to Sybase Server you encounter message stating that database handler cannot be created for this type of Server it usually means that Sybase Open Client dll ctlib.dll or libsybct.dll cannot be found. SqlDbx always tries to first load libsybct.dd which is distributed with Open Client version 15 and if it fails then it tries to load ctlib.dll.

Sybase IQ, Sybase Anywhere

Two different connections types supported for Sybase IQ and Sybase Anywhere: Open client and Sybase IQ ODBC driver.

Both methods offer same features.

10. IBM DB2 Help

IBM DB2 Help

Supported versions

DB2 UDB 7.0 - 7.5 Limited support

DB2 UDB 8.x - 9.x

DB2 z/OS 7.x - 9.x

DB2 iSeries 5.x - 6.x

[DB2 How To](#)

10.1 DB2 How To

DB2 How To

DB2 Batch separator

DB2 does not have fixed batch delimiter. IBM DB2 command line processor (CLP) and DB2BATCH utility have a command to set a delimiter. For example --# SET DELIMITER !. SqlDbx does recognize CLP SET delimiter command but even without it present is still can process most of the batches because it parses SQL statements and able to recognize end of statement, compound SQL or procedure. Following SQL statement will be successfully recognized by SqlDbx without need to set delimiter to anything.

```
CREATE PROCEDURE (FUNCTION, TRIGGER) name
```

```
...
```

```
BEGIN
```

```
--Compound SQL statements
```

```
END
```

Default delimiter is ";". If SQL script sets delimiter to something else it will be reset to ";" after all statements in the batch processed.

Executing Stored Procedures

Below is the example of how to call stored procedure on DB2 z/OS which has input and output parameters

```
VARIABLE COMMANDS_EX INTEGER
```

```
VARIABLE IFCA_RET INTEGER
```

```
VARIABLE IFCA_RET INTEGER
```

```
VARIABLE XS_BYTES INTEGER
```

```
VARIABLE ERROR_MSG VARCHAR
```

```
CALL SYSPROC.DSNACCMD ('-DISPLAY THREAD(*) TYPE(ACTIVE) DETAIL', 200, 'THD',  
?.COMMANDS_EX, ?.IFCA_RET, ?.IFCA_RES, ?.XS_BYTES, ?.ERROR_MSG);
```

11. ODBC Help

ODBC Help

SqlDbx requires ODBC 3.0 or later in order to operate correctly. Functionality is limited when you connect through ODBC even to the Servers with native support. SqlDbx does not try to figure out what kind of Server it connected to and uses only features provided by ODBC. SqlDbx does not alter any ODBC settings. Connecting through ODBC is useful when you try to solve issues with your applications which use ODBC connectivity.

It has to be noted that a lot of features like scripting definitions, generating SQL statements are not available with ODBC

[ODBC How To](#)

11.1 ODBC How To

ODBC How To

It is possible to execute set of predefined commands when using ODBC Connectivity. These commands directly map to ODBC API functions. See ODBC documentation for parameter description.

Available ODBC API commands:

- =SQLTables (Catalog, Schema, ObjectType)
- =SQLColumns (Catalog, Schema, Table)
- =SQLSpecialColumns (Catalog, Schema, Table)
- =SQLPrimaryKeys (Catalog, Schema, Table)
- =SQLForeignKeys (Catalog, Schema, Table)
- =SQLProcedures (Catalog, Schema, ObjectType)
- =SQLProceduresColumns (Catalog, Schema, Procedure)

12. Change Log

Release History

Version 3.43 (28 Feb, 10)

New and changed features

- Support for multiple languages (Pro version only)
- Updated system queries for DB2
- Intellisense improvements
- Enhanced Object list view
- Info tips in Object list view
- Two new scripting options
- Floating windows layout saved / restored
- Small changes and improvements

Fixes

- Error connecting to Oracle 8.1.x
- BEGIN / END blocks not matched correctly
- Toolbar combo boxes not working on Windows 2000
- Inconsistent menu items and shortcuts
- Exception for ODBC connections
- Reduced windows resources usage
- Exception in Editor

Version 3.42 (11 Jan, 10)

New and changed features

- SQL Log
- Upper / Lower case scripting
- Support for script / execute functions (Sybase Anywhere / IQ)
- Enhanced scripting formatting
- Improved handling of script variables
- Keyboard shortcuts to switch focus between different windows (Ctrl+1, Ctrl+2, Ctrl+3)
- Improved keyboard navigation
- Multiple small improvements in Editor

Fixes

- Incorrect cursor position after search
- OUT parameters for SQL Server not scripted correctly
- Crash during restoring saved session
- Editor crashes when using bookmarks

- Inconsistent keyboard shortcuts

Version 3.41 (06 Dec, 09)

New and changed features

- Hide / Show lines in Editor
- Template manager replaced by File browser
- Initial support for Sybase IQ 15
- Associate files with SqlDbx
- Added date and time to SQL statement history
- Added option to only generate update statement when editing table data
- ANSI version can read UNICODE files
- Small changes and improvements in different areas

Fixes

- Intermittent x64 version crashes
- Computed table columns were not scripted correctly for Sybase and SQL Server
- Long passwords truncated
- Oracle XMLType limited to 2K
- Session state not restored correctly in some instances
- File save dialog missing ANSI / UNICODE combo box on Windows 7
- SqlDbx Unicode version not connecting to SQL Server on Windows 7

Version 3.40 (18 Oct, 09)

- Native x64 version of SqlDbx
- Added multi column Results grid sort (Ctrl + double click)
- Added support for Oracle XMLType columns
- Improved support for multiple Oracle Homes
- Improved Table Export to file
- Improved Insert New Row feature. Better handling of identity and timestamp columns
- Fixed scripting of defaults and check constraints for Sybase and Microsoft SQL Server
- Fixed painting issues on Windows 7
- Small improvements and enhancements in couple different areas

Version 3.33 (13 Sep, 09)

- Added ability to modify table data and generate UPDATE/INSERT for ODBC Connections
- Improved support for Aliases / Synonyms for DB2 and Oracle
- Improved Intellisense: display primary / foreign constraints for JOIN statement
- Multiple improvements for DB2 scripting. Better support for DB2 iSeries
- Displays execution time for each individual batch
- Added data modify update statements to SQL History
- Added option to toggle Editor column mode (ALT+C)
- Added some missing menu items

- Fixed Modify Table Data generating incorrect update statement
- Fixed exception when generating UPDATE statement for Sybase
- Fixed Cascade / Tile not working
- Fixed Find All causes SqlDbx to hang
- Fixed incorrect catalog /schema display for ODBC Connections
- Fixed Intellisense missing some keywords and object names
- Fixed SQL History not saved / restored correctly.
- Small changes and improvements in different areas

Version 3.32 (17 Aug, 09)

- Added ability to select multiple objects in Object pane using SHIFT key.
- Added ability to select multiple items in Intellisense popup window.
- Added option to specify order of table columns in Intellisense popup window
- Added option to enable number of returned rows by default
- Added option to modify query results directly in Result Grid
- Added ability to modify table data for tables with no unique constraints
- Added new option to float and dock Object View, Edit and Result tabs
- New Editor features. Go to Line (Ctrl+G) and Mark all occurrences of a word (Ctrl+M)
- New Editor feature. Automatically highlight matching parenthesis
- New Editor feature. Automatically highlight matching BEGIN/END IF/END IF, CASE/END, ... SQL blocks
- Improved generate SELECT/INSERT/UPDATE
- Added new option to generate SQL Plus compatible scripts for Oracle
- Changed XML export format. Corrected date format
- Fixed out of memory error when exporting table data to file
- Fixed generation of execute script for Oracle package procedures
- Fixed custom object filter not working
- Fixed Shift key operation in Result Grid
- Fixed exception when copying from Result Grid
- Fixed exception when canceling Oracle queries
- Fixed error when executing Oracle stored procedures with multiple output cursors
- Fixed slow Intellisense for Oracle and DB2
- Fixed couple system catalog queries for DB2 z/OS

Version 3.31 (14 Jun, 09)

- Custom object filters
- Support for integrated BCP for Sql Server and Sybase
- Added support for password expiration policies for Oracle, Sybase and Microsoft SQL Server
- Added ability to change password
- Added support for Run / Script Execute stored procedures with output parameters
- Scripting improvements for DB2

- Added option to script one object per file
- Changed all DB2 catalog queries for to include WITH UR clause
- Fixed exception when importing large Excel files
- Fixed inconsistent behavior for CHAR columns between ANSI and UNICODE versions
- Fixed intellisense for Oracle
- Fixed incorrect painting on Vista and Server 2008
- Improved compatibility with some ODBC drivers
- Small changes and improvements in different areas

Version 3.30 (26 Apr, 09)

- Added support for DB2 iSeries/AS400
- Added option to reconnect with different credentials
- Reload list of schemas / databases on reconnect
- Fixed import from Excel ignoring values for some fields
- Fixed issue with Speed Typing settings not being saved correctly
- Server explorer enhancements
- Fixed couple scripting errors for DB2 z/OS
- Improved handling of script variables
- Small changes and improvements in multiple areas

Version 3.29 (01 Mar, 09)

- Added Microsoft and Sybase user types to Intellisense
- Added "Insert New Data Row" option for tables
- Added option to connect to Sybase IQ / Anywhere through Open Client or ODBC
- Added shortcut keys to Show/Hide Results (F11) and Show/Hide Objects (Ctrl+F11)
- Added option to output informational and error messages into Result Grid
- Fixed access violation when opening workspace referencing non existent files
- Fixed access violation for Oracle when entering SQL Plus commands
- Fixed error displaying functions in Server Explorer for Sybase ASE 15.x
- Fixed IDENTITY and COLLATION clause scripting for Microsoft SQL Server
- Fixed Excel export for some locales
- Fixed issue with Favorites not being saved in correct location
- Objects with names containing "." characters were not handled correctly
- ESC key was not closing some dialogs
- Visual data compare was not correctly ignoring trailing right whitespaces
- Improved usability and couple small improvements in different areas

Version 3.28 (06 Feb, 09)

- Added support for Sybase SQL Anywhere and Sybase IQ
- Added new feature: Quick filter in object pane
- Added parameterized queries and substitution variables

- Added ability to define completion keys for Intellisense
- Added two new Excel export options: text, as displayed
- Added "Edit Mode" for procedures / functions / packages
- Added option to force "." as decimal separator
- Fixed Intellisense not showing other Databases / Schemas
- Fixed issue with Replace dialog hanging
- Fixed scripting of user defined types for Sql Server and Sybase
- Fixed incorrect number display for some locales
- Intellisense enhancements
- Scripting improvements
- Usability improvements

Version 3.27 (07 Dec, 08)

- Added SQL formatter / Beautifier (Professional version only)
- Added supports for proportional and Asian fonts. Better IME support
- Added ability to retrieve parent / child rows from Result Grid
- Intellisense improvements
- Improved SQL templates support
- Improved compatibility with some ODBC drivers. Added batch separator (;) for ODBC sources
- Oracle RAW and LONG RAW columns were not displayed correctly
- Fixed speed typing not working correctly
- Fixed error when changing server types in login dialog
- Fixed issue with maximized window covering task bar
- Fixed issue with not being able to edit data in Sybase tables

Version 3.26 (05 Oct, 08)

- Changed how DECIMAL and NUMERIC columns handled.
- Added back display of table row count. Now it's an option
- Intellisense support for multiple temp tables in Sybase
- Added ability to execute stored procedures and functions from Editor popup menu
- New and changed Admin queries
- ODBC connection improvements
- Small GUI changes

Version 3.25 (07 Sep, 08)

- Added option to not open connections when loading Session State
- Added option to automatically disconnect from Server after user specified time period
- Added option to commit or rollback when closing Oracle connections
- Added support for SQL User Defined Functions for Sybase 15
- Improved handling of temp tables for Sybase and Microsoft Sql Server
- Couple improvements for ODBC connections

- Fixed slow database change for Sybase ASE
- Fixed issue with not releasing DB2 locks in some rare circumstances
- Fixed issue with error lines not being indicated correctly for Sql Server
- Fixed issue with number formats for some locales when generating INSERT/SELECT/UPDATE
- Fixed issue with automatically committing changes when editing table data for Oracle when AUTO COMMIT is off
- Enhancements and improvements in GUI, Editor and Results Grid

Version 3.24 (29 Jul, 08)

- Some Results Grid shortcuts were not working
- Fixed generate table script. Order of defaults, identity and constraints was wrong
- Fixed identifiers not being quoted correctly sometime
- Added diff options (case sensitive, ignore white space)
- Added menus for Quick diff
- Added ability to Edit / Delete Data Sources from Quick Connect
- More color options (variable and command colors)
- Intellisense list now shows table columns in create table order
- SQL execution history now persist between restarts
- Added option to copy column names with types and generate create table statement in Result Grid
- Fixed Shift+Tab working inconsistently

Version 3.23 (09 Jun, 08)

- Added support for Microsoft SQL Server 2008
- Added support for Oracle 11g
- Fixed error when using Oracle Client version prior to 8.1.xx
- Fixed Intellisense for Oracle stored procedures broken in previous release
- Enable multi line substitution values in Speed typing
- Improved Visual Diff interface. Faster diff algorithm
- New Quick Diff feature. Drag and drop text, script tab or result tab on a Quick Diff toolbar button to run diff between two items
- Minor GUI changes

Version 3.22 (22 May, 08)

- Fixed and added more options for multi selection in Object pane
- DBMS_OUTPUT was not working correctly in unicode version
- Remember current script directory for each server connection
- Fixed Replace Dialog hanging when doing replace all
- Fixed couple issues with Intellisense for DB2. Missing procedures, showing of system views
- BIGINT values now exported to Excel as text
- Fixed incorrect number formatting
- Some other minor changes and fixes

Version 3.21 (11 May, 08)

- Object Pane now allows multiple selections. Enabled copying from Object Pane by using keyboard
- Added ability to add results of every query to a new Result Tab (hold Shift key while executing query)
- Added ability to toggle ON/OFF limit for number of query result rows
- Fixed query results going to a wrong Result Grid
- Keyboard shortcut menu key now works correctly
- Fixed "Out of memory" error when selecting binary columns
- Generate SELECT includes only columns visible in Result Grid
- Long diagnostic messages not truncated anymore. Improved formatting
- Fixed keyboard shortcuts conflicting with some keys on international keyboards
- Some other minor changes and additions

Version 3.20 (27 Apr, 08)

- Find, Replace and Object Properties dialogs are not modal anymore
- Added ability to have multiple Result Tabs
- New option to display column types in Result Grid
- Locale aware number formatting and new number formatting options
- Added option to script Oracle objects using DBMS_METADATA package
- Server Explorer was not correctly displaying DB2 and Oracle procedures
- Added missing Editor shortcuts for Ctrl+Backspace and Ctrl+Delete

Version 3.19 (06 Apr, 08)

- Unicode version of SqlDbx Pro
- Removed option to connect to Sql Server through DB-Library
- Small fixes and changes

Version 3.18 (02 Mar, 08)

- Fixed issue with intermittent locking of DB2 catalog views
- Fixed incorrect scripting of DEFAULT values and GENERATED BY columns for DB2
- Added ability to view BLOB's
- Added display of return values for Sybase stored procedures
- Fixed small scripting errors for Sql Server and Oracle
- Fixed display of unsigned values for Sybase Version 15
- Small GUI and Editor improvements

Version 3.17 (17 Feb, 08)

- Added multi line cursor insert/delete/type to Script Editor. Added shortcut key to set block selection on (Alt + C)
- Performance improvements in multiple areas (Export, Generate statements, Editor)
- Changed how table import/export works
- Small improvements and fixes in Editor, Excel export, Grid Results

- Fixed access violation when retrieving Oracle NCLOB columns
- Updated help file

Version 3.16 (05 Feb, 08)

- Added extensive column (block) select/copy/cut/paste/drag/drop support to Script Editor
- Changed behavior for option "Results in Script Window". Now output goes to separate window in a Results Tab
- Added option to set capitalization for procedures/functions
- BIGINT columns were not correctly exported to Excel
- Some other small GUI changes

Version 3.15 (15 Jan, 08)

- Added ability to directly execute Oracle package procedures and functions from Object View
- Added two new items to Editor popup menu: Script Object to new Window and Sync Object View
- Implemented explain plan for IBM DB2/UDB
- Fixed issue with favorite objects not being refreshed
- Couple scripting fixes for DB2 and Oracle
- Small changes in different areas: Editor, Results Grid, Quick Connect
- Added new shortcut key to switch between Editor and Results Grid (Ctrl + D)

Version 3.14 (06 Jan, 08)

- New feature: Quick connect
- Added more options to copy data from Results Grid and paste to Script Editor
- Fixed copy / paste to Excel
- Improved ODBC compatibility for some data sources
- Intellisense extended to work with temporary tables in MS Sql Server and Sybase ASE
- Added new command line options: -q, -r, -w

Version 3.13 (16 Dec, 07)

- New features
 - Sync Object View with Script Editor
 - Added menu and shortcut keys for BEGIN, COMMIT and ROLLBACK TRANSACTION statements
 - Added ability to switch AUTO COMMIT ON/OFF for DB2 and Oracle
- IBM DB2/UDB improvements
 - Added support for DB2 UDB version 9.x
 - Improved support for zOS and DB2 V7
 - SQL parser now better handles DDL and DML batches and recognizes --#SET DELIMITER command. See help for more details
 - Admin queries added for versions 8.x and 9.x
 - Intellisense recognizes DB2 Aliases
- Improved IntelliSense
- Editor now correctly applies color to multi line literal strings
- Fixed issue with Sql Server and DB2 reporting an error when delete, update or insert did not affect any rows

- Some minor GUI improvements and usability enhancements. Slight changes to menu structure
- Fixed Results Grid print preview

Version 3.12 (15 Nov, 07)

- New feature: Transpose data in Results Grid
- Added configuration options for delimited file data exports
- Intellisense was not working correctly for DELETE statement
- Fixed handling of NULL values in Filter Grid Results
- Do not truncate trailing blanks for VARCHAR columns when copying from Results Grid
- Script variables values with spaces do not require quotes anymore

Version 3.11 (28 Oct, 07)

- New feature: Script variables. See help for details
- Significantly enhanced Speed Typing. Integrated with Intellisense. Now supports formal arguments
- Option to parse scripts for syntax errors without execution implemented for Sybase ACE and Sql Server
- Some other minor GUI enhancements and improvements

Version 3.10 (14 Oct, 07)

- Intellisense and Auto Complete now work across databases, schemas and owners. Enable it in Options->Editor->Intellisense
- Improved Intellisense. Now works in more cases
- Added ability to execute procedures and functions directly from Object View pane.
- Scripting for procedure and function execute now uses template parameters
- Added command line options. SqlDbx Pro only. See help for details
- Removed option to pre load packages for Intellisense for Oracle (not needed anymore). Fixed couple of bugs in Oracle SQL Parser
- Fixed issue with mixed case object names and names with embedded spaces for Oracle and DB2
- Generate INSERT/DELETE/SELECT now correctly handles string with embedded single quotes, binary columns and columns with NULL values
- Editor performance significantly improved for very long lines
- Fixed loading of incorrect system tables and views for SQL Server 2005
- Added shortcut to select SQL block (Ctrl+B). Shortcut for selecting text block changed to Ctrl+Shift+B
- Some other minor GUI enhancements and improvements

Version 3.00 (03 Sep, 07)

- Added ability import / export table data to files and Excel
- Improved support for international date formats in Generate SELECT/INSERT/UPDATE/DELETE
- Fixed issue with output messages sometimes not displaying correctly for SQL Server
- Fixed occasional freezing or termination of application while copying data from Result Grid

- Export to Excel of date and numeric columns does not depends on formats selected in Options anymore
- Some other minor GUI enhancements and improvements

Version 2.99 (21 Aug, 07)

- Added ability to create connection aliases
- Improved data diff
- Enhanced template management
- Fixed loading session state when using integrated security
- Some other minor improvements

Version 2.98 (06 Aug, 07)

- Fixed exception when accessing table properties in Sybase
- Fixed capitalize keywords option being always on
- Added option to manage file extensions

Version 2.97 (30 Jul, 07)

- Fixed saving / restoring of session state if using multiple computers on a network
- Fixed errors when creating Oracle triggers
- Improved Search in database
- Handle Oracle interval types
- Better handling of timestamp columns for Oracle and DB2
- Detect and reload files modified outside SqlDbx
- Added ability to use wildcards in Find and Replace dialogs
- Minor fixes and improvements. Some shortcut keys were not working. Missing keywords

Version 2.96 (03 Jun, 07)

- Enhanced Find and Replace dialogs
- Fixed couple small issues with Sybase and Oracle.

Version 2.95 (20 May, 07)

- Now each script tab has it's own associated set of results
- Redesigned results window.

Version 2.94 (12 May, 07)

- Fixed incorrect display of BIGINT values
- Significantly improved diff algorithm. Added ability to compare files
- Improved support for DB2 7.1 on z/OS. Fixed incorrect scripting of FOREIGN KEY constraints for DB2
- Fixed issue with expanding table columns for ODBC sources.
- Minor GUI enhancements. Improved Intellisense keyboard interface

Version 2.93 (29 Apr, 07)

- Added ability to save and restore user session state
- Display number of rows affected by INSERT, UPDATE or DELETE statements
- Intellisense improvements. Enhanced keyboard interface in results grid
- Improved Visual diff
- Fixed issue with inability to edit data in results grid for Sybase and SQL Server

Version 2.92 (05 Apr, 07)

- Added new Favorite Objects feature
- Improved support for Oracle and Microsoft servers
- GUI improvements

Version 2.91 (29 Mar, 07)

- Fixed date format bug introduced in previous release
- Some other minor fixes

Version 2.90 (18 Mar, 07)

- Microsoft SQL Server 2005 support
- Added ability to apply filter in results grid
- Added support for quoted Identifiers
- Generate SELECT statement from results grid. Show table constraints in tables pane
- Some other minor fixes

Version 2.89 (04 Mar, 07)

- Significantly improved support for ODBC sources
- Added support for Sybase Version 15
- New Auto Complete feature implemented. It can be configured in Editor Options
- Multiple Oracle homes support

Version 2.88 (18 Feb, 07)

- Intellisense changes
 - System tables, views and procedures can be added to Intellisense. Options->Editor->Intellisense
 - New auto suggest feature. Default shortcut key Ctrl+SPACE. Very basic at this time
 - No popup lists and keyword capitalization inside comments
- SQL History feature completely redone
- New Quick search in script feature added
- More DBA related queries
- Fixed some menu and keyboard shortcuts
- Some minor GUI changes.

Version 2.87 (07 Feb, 07)

- Added handling for even more data types for SQL Server and DB2

- Intellisense now works with procedures and functions in Oracle packages. You can add packages to be included in Intellisense
- Fixed some accelerators keys not working in certain conditions
- It's now possible to set values to NULL when editing table data
- Some other minor enhancements and performance improvements in various areas

Version 2.86 (15 Jan, 07)

- Added handling for more data types (SQL Server : BIGINT, BINARY, VARBINARY. DB2 : BINARY, VARBINARY)
- Added option to select alternative background and text color for database connections
- Copy to clipboard now works in Messages tab
- Locale specific default date and time formats
- Added ability to set column formats directly in Results Grid
- Some other minor enhancements and performance improvements

Version 2.85 (11 Dec, 06)

- Intellisense and UI improvements
- Added option to print selection in results grid
- Minor fixes and enhancements

Version 2.84 (29 Oct, 06)

- Intellisense improvements. Table aliases recognized. DELETE and UPDATE statements supported. List of columns shows after WHERE and SET clauses
- Display query plan and query statistics for Sybase, Oracle and SQL Server
- Alternative window layout option added
- Improved search in object pane of script editor
- Fixed file saving to CSV and XML
- Fixed connect / disconnect without closing script editor
- Minor fixes and improvements in script editor

Version 2.83 (14 Aug, 06)

- Allow to directly modify table data in result grid for tables with unique constraints
- Option to limit number of returned rows. Option to see totals for numeric columns
- Fixed scripting of Sybase triggers
- Enable multiple selection in result grid. Copy and Generate statements use multiple selections.
- Generate WHERE IN (...) expression from result grid
- Minor improvements in editor, drag and drop, file handling

Version 2.82 (04 Jun, 06)

- More accurate indication of compile error lines for all Servers
- Fixed incorrect scripting of unique constraints for Sybase and Microsoft Servers
- Fixed issue with object dependencies not being displayed correctly

- Fixed incorrect parsing of CASE and OPEN PL/SQL statements for Oracle
- Automatically display compile errors for Oracle

Version 2.81 (29 May, 06)

- Improvements to DB2, Sybase and Oracle scripting
- Added ability to dynamically connect / disconnect from Server

Version 2.80 (4 Apr, 06)

- Support for code templates
- Generate INSERT, UPDATE, DELETE from Results grid
- Support for new data types in Oracle 10g
- Improvements to IBM DB2 support

Version 2.70 (3 Feb, 06)

- SQL Editor improvements.
- Speed Typing
- Initial support for Microsoft SQL Server 2005

Version 2.60 (16 Nov, 05)

- Object scripting improvements
- Discovery of available Servers

Version 2.50 (15 Jul, 05)

- Initial support for IBM DB2
- DBA style queries added

Version 2.00 (8 Jan, 05)

- First public release of SqlDbx