

## About SQL DbViewer

**SQL DbViewer** is a lightweight replacement/addition to the Microsoft SQL Server Enterprise Manager® that comes with Microsoft's SQL Server 6.x. DbViewer allows you to quickly and to easily view the properties of SQL Server Databases, Table, Indexes, Stored Procedures and Columns. You can even run Transact SQL Queries against the server. DbViewer also allows you to traverse a Table's Foreign Key references, which allows for a better understanding of the database structure.

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If you make changes to the code, please notify me (Todd Brooks), so that I might incorporate your changes into a future release and give you credit. If you would like to see changes or additions to the code or have problems running this program, feel free to email me at [todd@nol.net](mailto:todd@nol.net) and I will do my best to accommodate you.

Latest version of DbViewer can be found at <http://www.nol.net/~todd/software/DbViewer>

Source Code can be found at <http://www.nol.net/~todd/software/source/DbViewer>

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**Requirements**

**SQL DbViewer** requires the Microsoft Data Access 2.0 (ADO) runtimes to be installed. A setup package with the required files can be located on Microsoft's website at the following address:

<http://www.microsoft.com/data/mdac2.htm>

**Note to Windows 95 users:** Windows 95 users must install DCOM for Windows 95 before installing MDAC 2.0.

**SQL DbViewer** requires the Microsoft Visual Basic 6.0 runtime files be installed on the client machine before installation. A setup package with the required files can be located on Microsoft's FTP site at the following address:

<ftp://ftp.microsoft.com/Softlib/MSLFILES/VBRUN60.EXE>

**Source Code Modification/Compilation**

To modify or compile the source code, you must have Microsoft Visual Basic 6.0 installed. You will also need to have the **windowless controls** installed, also. These are located on the Visual Basic CD under the TOOLS directory. The OCX's are installed during setup, but will need the design time controls installed for source modification and compilation.

## DbViewer Interface

DbViewer is a Multiple Document Interface (MDI) application that will allow you to view multiple SQL Servers, databases and/or tables at the same time in separate windows. Each child window allows you to view a server's databases. The tabs allow you to view different properties and objects of that database.

[Db/Table Info Tab](#)

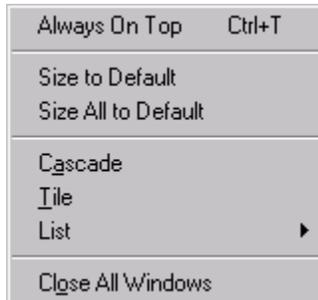
[SQL Statement Tab](#)

[SQL Result Tab](#)

[Store Procedure Tab](#)

The Connection menu option allows for adding and removing new [Profiles](#) .

The Window menu option has an option for **Always on Top**.

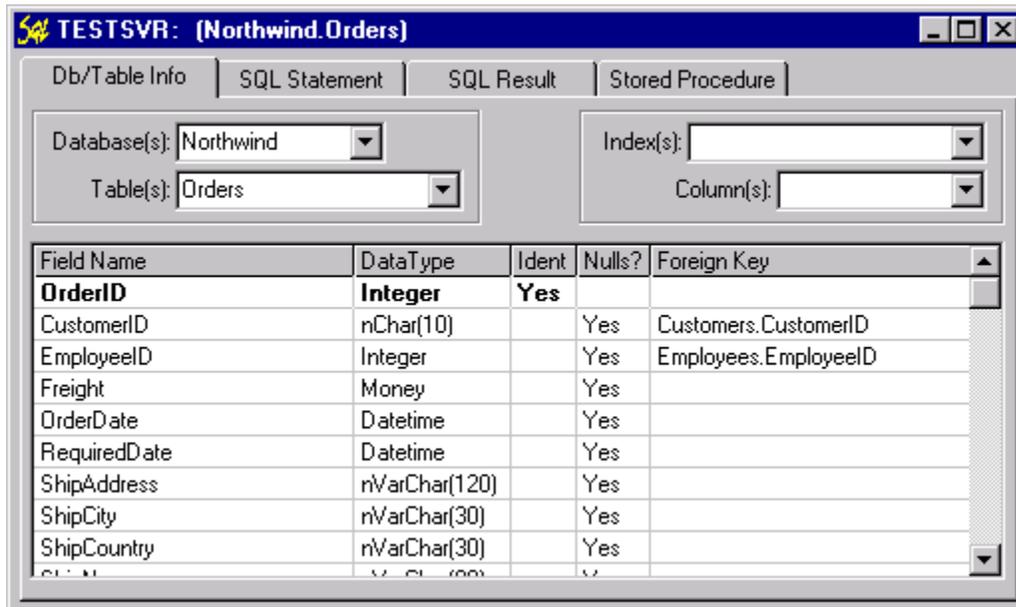


This makes DbViewer the top-most window at all times no matter what other application has focus. Selecting this option easily toggles this feature. This is particularly helpful when programming.

**Always On Top** can be toggled by pressing **Ctrl-T**.

### Db/Table Info Tab

The Db/Table Info Tab allows you to select a database and views its objects and properties.



Selecting a Database will fill the Table combo box with all the available Tables in that Database viewable by your login. By selecting a Table, the Columns of that Table will be displayed in the grid and all Indexes will be displayed in the Index combo box. Selecting a particular Index will fill the Columns combo box with all the Columns that make up that Index. The bold-faced fields in the grid denote the Primary Key columns for the Table. All columns after these are sorted alphabetically.

If the **Ident** column has a **Yes** in it, that particular Column is an Identity column.

If the **Nulls** column has a **Yes** in it, that particular Column allows null values.

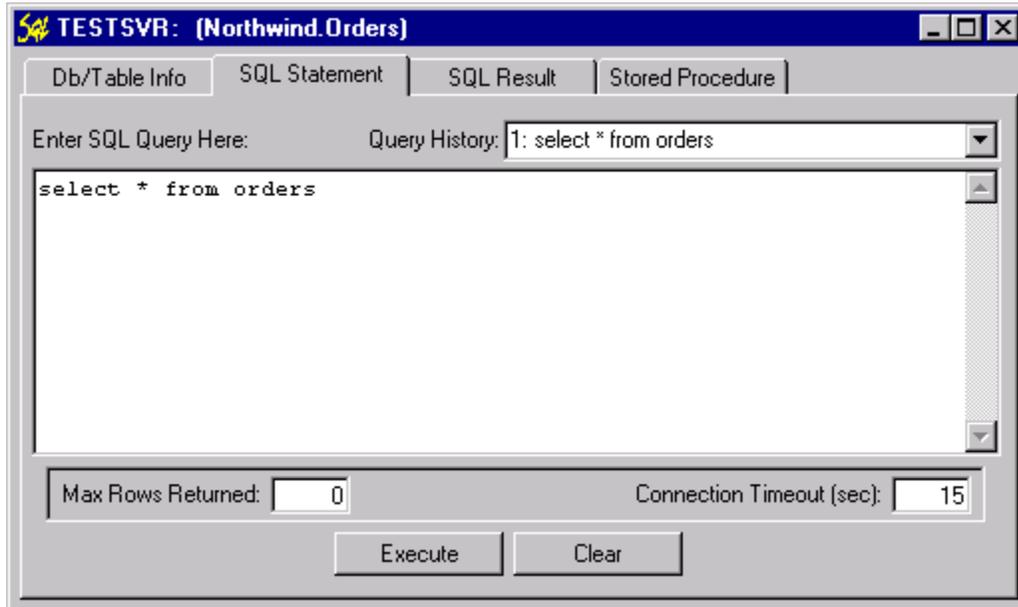
If there is a **Table.Column** entry in the Foreign Key column, you may **double-click** that entry and a new window will open with that particular Table selected. This is a quick and easy way to traverse the references in a Database.

Double-clicking a cell in the Field Name column will add that field to the current cursor position on the [SQL Statement tab](#). This makes it easy to start a T-SQL Query without a lot of typing!

**Please Note:** The Data Type column will return the **byte length** of char and varchar fields on SQL Server. Since SQL Server version 7.0 supports UNICODE, note that the sizes will double since characters in UNICODE take 2 bytes instead of the ANSI 1 byte per character.

### SQL Statement Tab

The SQL Statement Tab allows a Transact SQL Query to be executed against the opened SQL Server database.



Pressing the **Execute** button (or **Ctrl-E** as in Microsoft's isql-w.exe) will cause the Query to execute. Pressing the **Clear** button will erase the SQL Statement window.

The Query History stores past queries that have successfully been executed. The number of queries the program tracks is an option on the [Login Properties dialog](#).

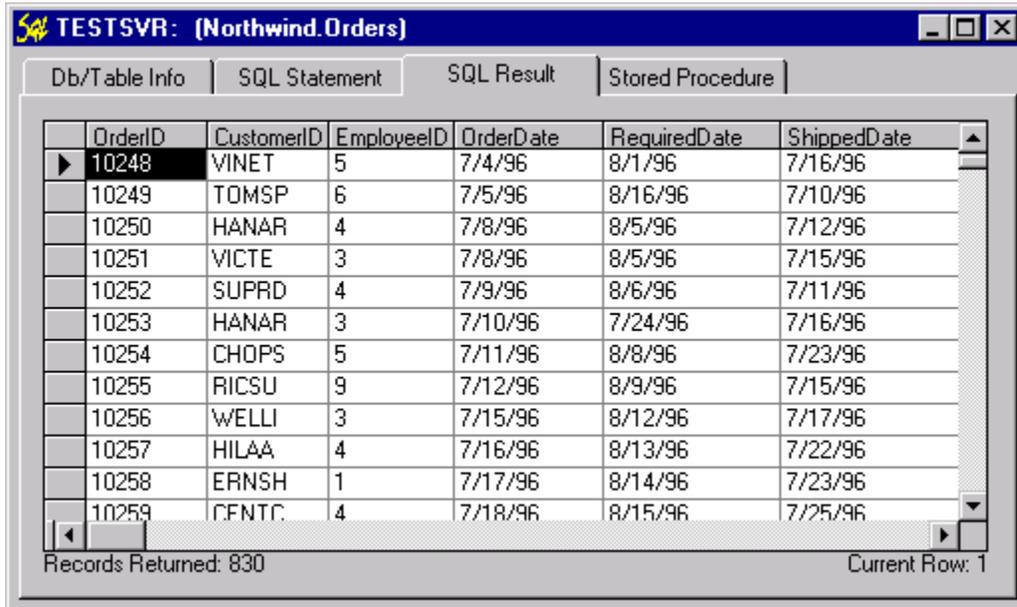
Entering a number in the Max Rows Returned text box will force the Query to only return the selected number of rows. A zero (0) is the default and will allow the Query to return *all* records matching the Query.

Entering a number in the Connection Timeout text box will force the Query to abort after the selected number of seconds. This is particularly useful on dial-up connections to a SQL Server as to prevent the application from stalling while waiting for a large recordset to be returned. The default is 15 seconds.

**Both of the above values can be set as defaults in the [Login Profile dialog](#).**

### SQL Result Tab

The SQL Result Tab places the recordset returned by the SQL Query into a grid for easier viewing.



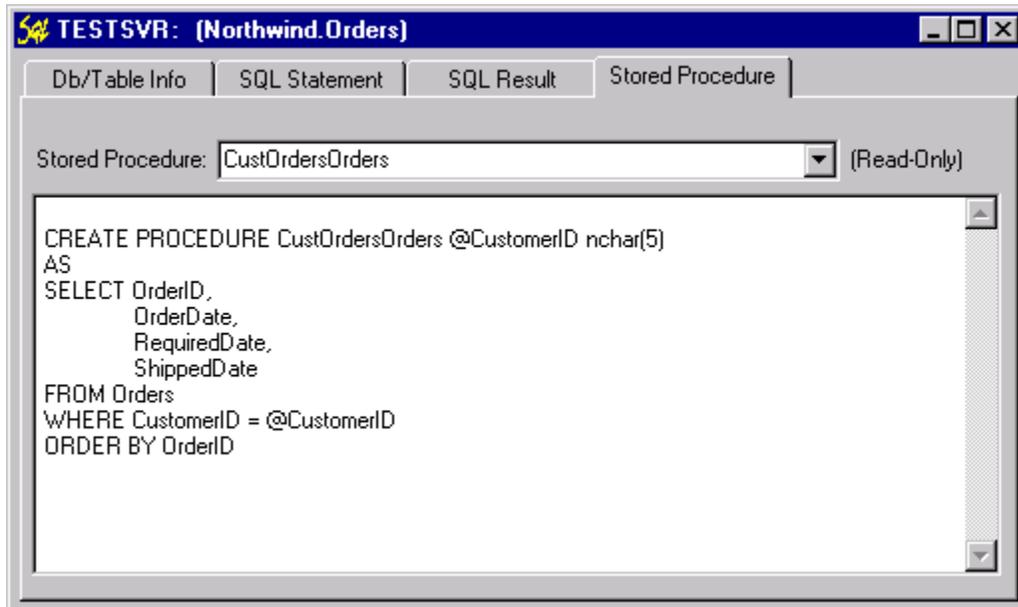
The screenshot shows a window titled "TESTSVR: (Northwind.Orders)" with a tabbed interface. The "SQL Result" tab is active, displaying a grid of data. The grid has columns for OrderID, CustomerID, EmployeeID, OrderDate, RequiredDate, and ShippedDate. The first row is selected, and the status bar at the bottom indicates "Records Returned: 830" and "Current Row: 1".

OrderID	CustomerID	EmployeeID	OrderDate	RequiredDate	ShippedDate
10248	VINET	5	7/4/96	8/1/96	7/16/96
10249	TOMSP	6	7/5/96	8/16/96	7/10/96
10250	HANAR	4	7/8/96	8/5/96	7/12/96
10251	VICTE	3	7/8/96	8/5/96	7/15/96
10252	SUPRD	4	7/9/96	8/6/96	7/11/96
10253	HANAR	3	7/10/96	7/24/96	7/16/96
10254	CHOPS	5	7/11/96	8/8/96	7/23/96
10255	RICSU	9	7/12/96	8/9/96	7/15/96
10256	WELLI	3	7/15/96	8/12/96	7/17/96
10257	HILAA	4	7/16/96	8/13/96	7/22/96
10258	ERNSH	1	7/17/96	8/14/96	7/23/96
10259	CFNTC	4	7/18/96	8/15/96	7/25/96

The number of records returned by the Query are displayed in the lower left hand corner of the window with the current record number that the cursor has selected in the lower right hand corner.

### Stored Procedure Tab

The Stored Procedure Tab allows you to select a Stored Procedure for the selected Database and view its Transact SQL code. You **cannot** modify the code, but you are able to copy to the code to the Windows clipboard.



## Login Properties and Profiles

The Login Properties dialog allows you to select a specific SQL Server and database to connect to.

The screenshot shows the 'Login Properties' dialog box. At the top, there is a 'Profile:' dropdown menu with 'New' selected. Below this are two buttons: 'Save Profile' and 'Delete Profile'. The dialog is divided into two main sections: 'Server Options' and 'User Options'. The 'Server Options' section contains: 'Server:' text box, 'Default DB:' text box, '(Optional) DSN:' dropdown menu (set to '(None)'), 'Connection Timeout (sec):' spinner (set to 15), 'Max Rows Returned:' spinner (set to 0), 'Max Queries to Store:' spinner (set to 5), and 'Display System Tables?' checkbox (unchecked). The 'User Options' section contains: 'UserName:' text box and 'Password:' text box. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

For future use, you are able to save these settings to a particular Profile that will be saved in the Registry.

**Note:** The password that is saved will not be encrypted when it is saved to the Registry. If someone has access to your registry, then they have the potential to view the password that you have saved.

Place the name of the database server in the **Server** text box. Do not use IP Addresses!

Place the name of the database you wish to default to when opening up the database. If you leave this blank, the application will default to the *master* database.

**Connection Timeout** is the amount of seconds that the application will wait for a response from the SQL Server before aborting.

**Maximum Rows Returned** is the maximum number of records the SQL Query will return. This can prevent one from accidentally executing a SELECT \* FROM... over a slow network or Internet connection and stalling the application.

**Maximum Queries to Store** is the maximum number of T-SQL Queries to store in memory to rerun. This feature is functionally similar to the *Most Recently Used (MRU) List*.

**Display System Tables** allows you to toggle between showing the SQL Server system tables in your Table list. This is useful for blocking out unnecessary items in the Table list.

**Note:** Leaving the Username and Password to blank will cause the client to attempt a Trusted Connection.

**Known Issues**

The only known issue:

When switching tabs in the program, the program will give focus to the text box on the child form (for example, the SQL Statement entry box). If the standard edit box was used from Visual Basic, even if Form KeyPreview is TRUE, the text box steals the CTRL-Tab keystroke and won't pass it to the form. This prevents the tabs from switching after this tab has been hit. Using the windowless edit box, the desired behavior occurs and no keystrokes are stolen. Unfortunately, the windowless edit box doesn't process the Microsoft IntelliMouse mouse wheel messages properly and the mouse wheel doesn't work with these edit boxes, either.

If you find any issues, please feel free to contact me, Todd Brooks ([todd@nol.net](mailto:todd@nol.net)), and let me know. I will do my best to resolve the issue or provide a workaround as time permits.

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Version 2, June 1991

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Enter a distinct Profile Name.

Closes this dialog and saves the Profile name you selected.

Closes this dialog without saving any changes you have made.

Exits the About dialog.

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Saved Profiles.

Enter the **name** of the SQL Server. IP Addresses will not work.

Enter the default Database to log into. Leave blank to use the **master** Database.

Enter your Username for the selected SQL Server.

Enter your Password for the selected SQL Server

Click this button to log into the selected SQL Server.

Click this button to close the Profile dialog.

Click this button to save this Profile.

Click this button to delete the selected Profile.

Enter the maximum number of seconds the SQL Query will take to return records before canceling the request.

Enter the maximum number of rows the SQL Query is to return

Enter the maximum number of T-SQL queries to store for this Profile.

Select to display SQL Server system tables in the Table list.

Choose an Index from the selected Table.

List of Columns comprising the selected Index.

Choose an Index from the selected Table.

List of Columns comprising the selected Index.

Choose a Table from the selected Database.

Displays a list of all Databases available to your Login on this SQL Server.

Choose a Table from the selected Database.

Displays a list of all Databases available to your Login on this SQL Server.

Enter a Transact SQL Query to execute.

Enter a Transact SQL Query to execute.

Click this button to execute the Transact SQL Query.

Click this button to clear the current Transact SQL Query.

Results of the Transact SQL Query.

The Transact-SQL for the selected Stored Procedure.

Choose a Stored Procedure from the selected Table to view its T-SQL.

Choose a Stored Procedure from the selected Table to view its T-SQL.

Selected Table design properties.

Enter the maximum number of rows the SQL Query is to return.

Enter the maximum number of seconds the SQL Query will take to return records before canceling the request.

Enter the maximum number of seconds the SQL Query will take to return records before canceling the request.

Choose a query that has been successfully executed previously.

