OpenEnterprise SQL View Reference Guide (V2.83)

Remote Automation Solutions

EMERSON.

Contents

1 SQL View

1.1   SQL View Overview

The SQL View is a container that enables the user to: -

- Display the results of previously saved Database Object View queries (.DBX files) in a window within the OpenEnterprise Desktop;

- Embed pre-configured Database Object Viewer queries within an OpenEnterprise Graphics display;

- Create custom context menus to use the results of one query to display another query or launch a Trend View based on an Operator selection (see below).
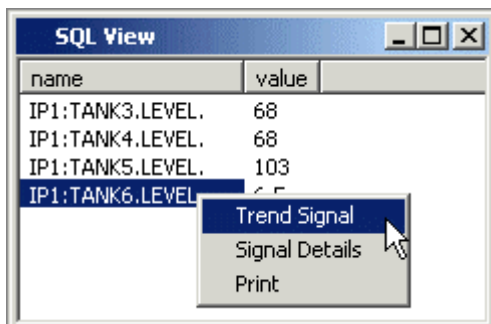
1.2   Configuring the .DBX File

1.2.1   Configuring the .DBX File

The SQL View is a container for OpenEnterprise .DBX files.

Configuration of a (.DBX) file for display by the SQL View component is performed using the Database Object Viewer. The Database Object Viewer is an extension of the Database Explorer View application.

The procedure for creating a .DBX file is as follows:-

1. Open the Database Explorer.

2. Confirm a connection to the database.

3. Open the Database Object Viewer.

4. Create a Query

    o   Select the Table

    o   Select the Attributes

    o   Define the Conditions

    o   Create an OpenEnterprise Menu (optional)

5. Save the query as a .DBX file

1.2.2   Start Database Explorer

This is done by selecting the Windows **Start** button and then
**Programs>>OpenEnterprise>>Database Explorer**.

1.3   Configuring the SQL View

It is possible to open a new SQL View window within the Desktop, and to configure it to run a
previously saved DBX file by accessing it's Property Pages. To access the SQL View's Property
Pages it is necessary to place the SQL View into configuration mode. There are two ways to do this.

1.3.1.1   1. From the Configure Menu

1.3.1.2   Within the OpenEnterprise Desktop

Click on the SQL View window and then select the File>Mode>Configure menu item from the
Desktop's menu bar.
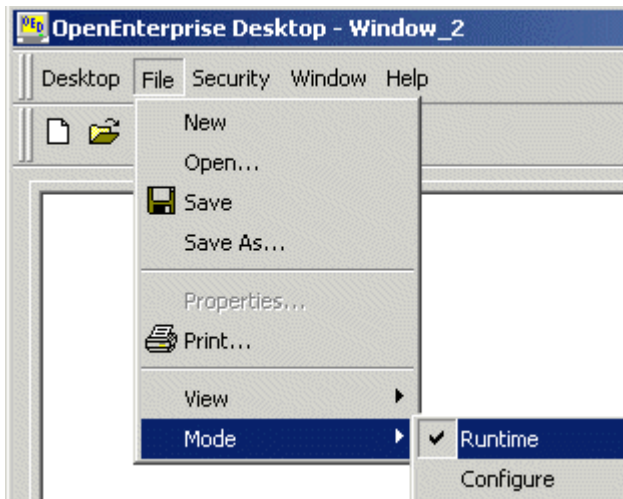
1.3.1.3   Within the SQL View Container

The SQL View container can be run outside of the OpenEnterprise Desktop. It is opened from
the Windows **Start>Programs>OpenEnterprise>SQL View** menu. Select the **Configure**
menu item to place the SQL View into configure mode.
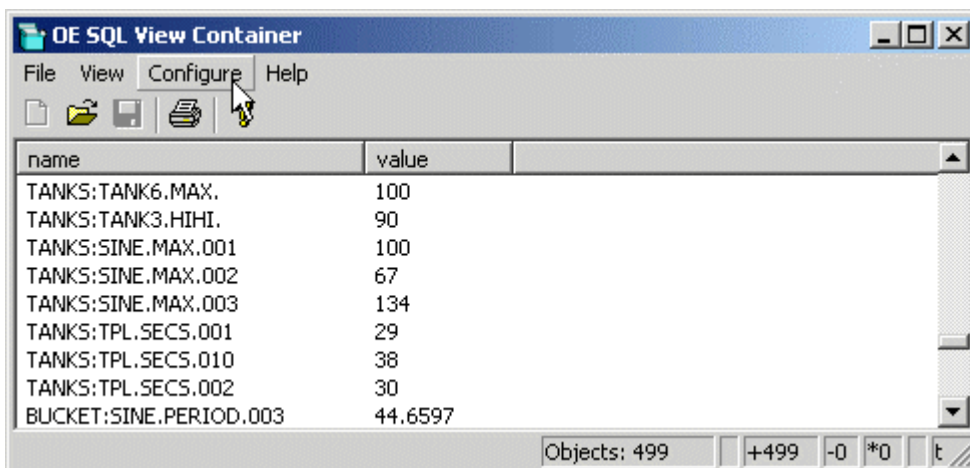
1.3.1.4   2. Using CTRL + M

Any OpenEnterprise View can be quickly toggled between runtime and configure mode by selecting it's window and then pressing the **CTRL** and **M** keys simultaneously on the computer keyboard.

1.3.1.5   The Properties Context Menu

Once the SQL View is in Configure mode, right click on the SQL View to reveal its properties menu . Select 'Properties' to display the Property Pages for the SQL View.
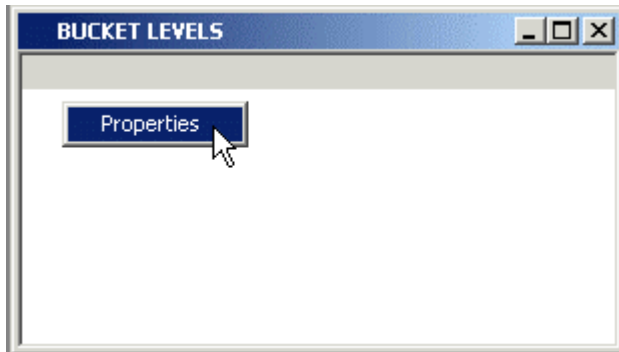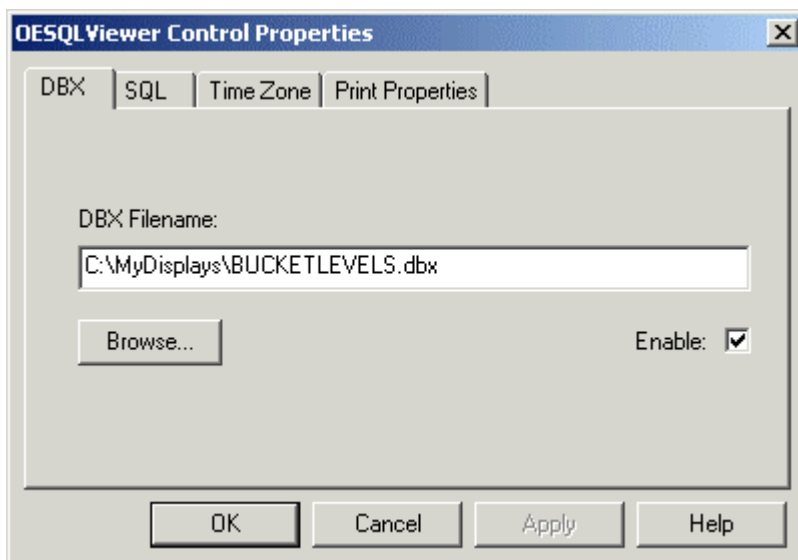
1.4   The Property Pages

1.4.1   The DBX Page

1.4.1.1   The DBX Page

The DBX page enables the user to configure an associated DBX file to load into the SQL View container.
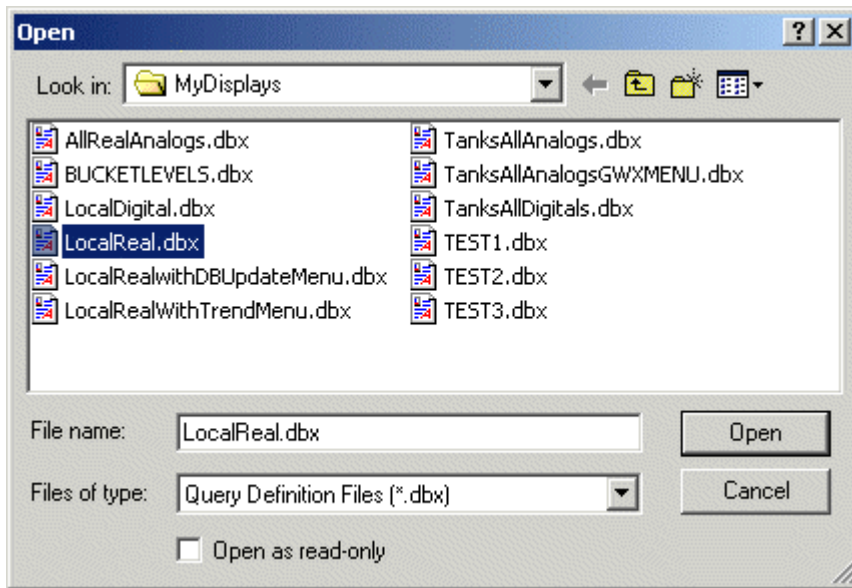
1.4.1.2   DBX Filename

This field contains the name of any associated .DBX file. The filename can be entered in from the keyboard or the Browse button may be selected, which opens an Open file dialog so that the user can look for and open.DBX files into the SQL View container.

1.4.1.3   Browse Button

Select the [Browse] button to browse the Computer's hard disk for .DBX files.

When a file has been found its Path is entered automatically into the 'DBX Filename:' field.

1.4.1.4 Enable File

If this box is checked then the .DBX file specified in the 'DBX Filename:' field becomes activated when the SQL Viewer is placed into Runtime Mode. Checking this box automatically unchecks the **[Enable]** box on the SQL Page.

If the box is unchecked, and the SQL Viewer is placed into Runtime Mode it will ignore the .DBX file specified here and will run any query instead which has been placed in the editing box on the SQL Page, providing that page has been enabled.

1.4.2 The SQL Page

1.4.2.1 The SQL Page

This page enables the user to specify a new query to be used by the SQL Viewer, configure the query as active or static and to enable or disable the defined query.
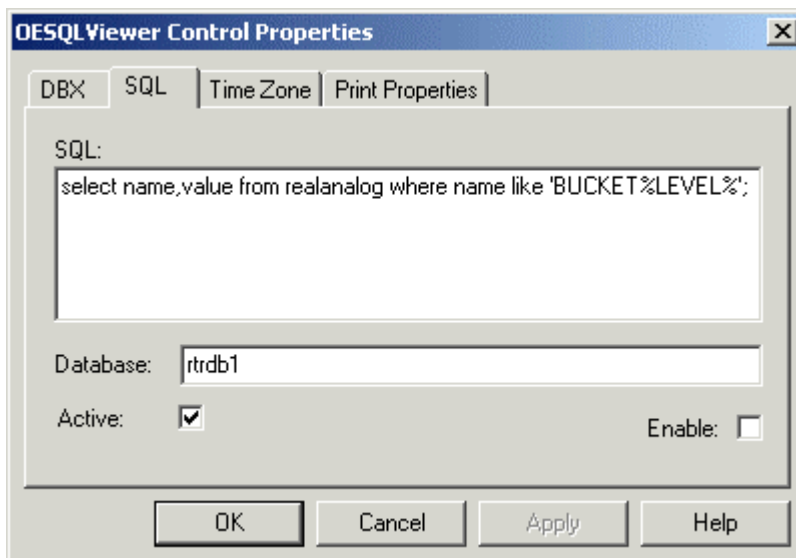
1.4.2.2   Defined Database

This field contains the database which will be queried.

1.4.2.3   Active

If this box is checked then the query will become an active query. That means it will automatically refresh when values satisfied by the query change.

1.4.2.4   Enable Query

When checked, the query specified in the SQL editing box on this page will be used rather than the query in the .DBX file on the DBX Page. Checking this box will automatically uncheck the **[Enable]** box on the DBX Page.

1.4.2.5   SQL Statement Pane

This pane contains an editable text field where the database query can be typed in. If a DBX file has been defined, it will contain the query from the DBX file, which can be edited, but not saved from here.

1.4.3   The Time Zone Page

1.4.3.1   The Time Zone Page

This page allows the user to alter the time zone in which any date and time value retrieved from the database is displayed.

Click the hotspots* on the dialog below for help on each feature, and also to navigate to the other Property pages.
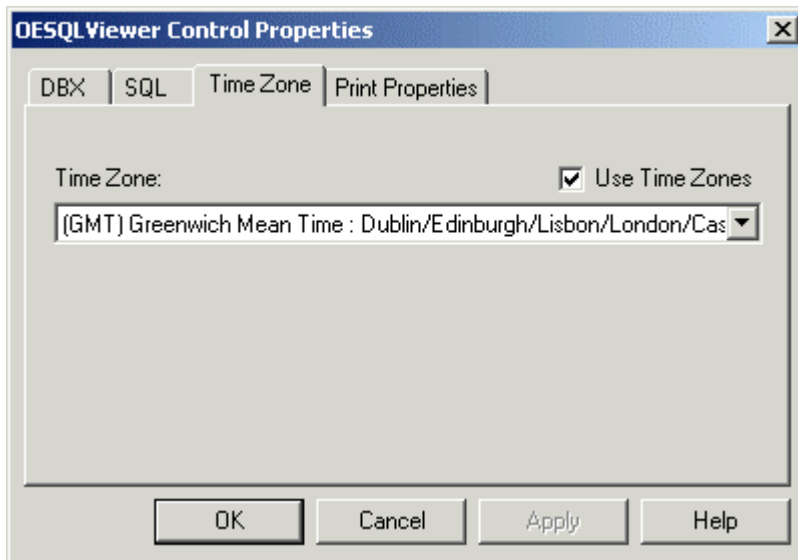
1.4.3.2   Use Time Zones

If the **[Use Time Zones]** box is unchecked the 'Time Zone' field becomes greyed out and disabled.

To change the Time Zone for the SQL Viewer the **[Use Time Zones]** box must be checked, and the drop-down list is then enabled, and a new Time Zone may be selected.
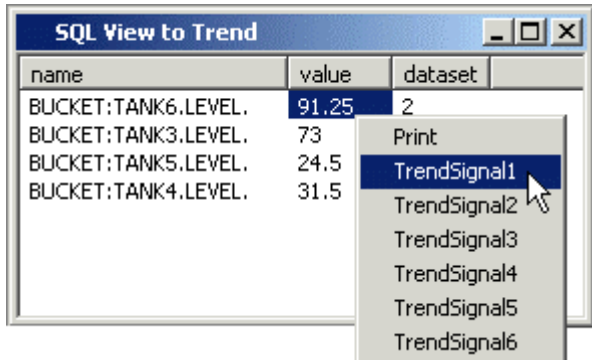
1.4.3.3   Time Zone

When selected, a list of all available time zones is displayed for selection by the user. The SQL View will display any Date/Time values according to the selected time zone.

1.5   Runtime Mode

1.5.1   SQL View Window in Runtime

This is an example of a configured .DBX file being displayed in an SQL View container within the Desktop.

1.5.2   Custom Context Menus

Queries can be configured with Custom Context menu items which open other OpenEnterprise Client components, passing parameters to the other component.

During Runtime this gives the Operator the ability to navigate from one OpenEnterprise component to another showing the selected object in a different manner (ie a signal from an SQL Viewer to an OpenEnterprise Graphics display mimic of the same signal).

1.5.3   Sorting on Columns

The query may be sorted in ascending / descending order on any attribute by clicking on the column heading.

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