Wabit User Guide

Version 1.1.0

SQL Power Group Inc.
[http://www.sqlpower.ca/software/]

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Table of Contents

Chapter 1. Introduction

About Wabit

Wabit from SQL Power Group is a reporting tool designed for anyone who needs to make reports easily and quickly. Each major part of Wabit has an easy drag and drop interface that allows users to piece together many kinds of queries and reports. These queries and reports can then be exported for use in other workspaces or printed.

This user guide is based on Wabit version 0.9.9

About This Guide

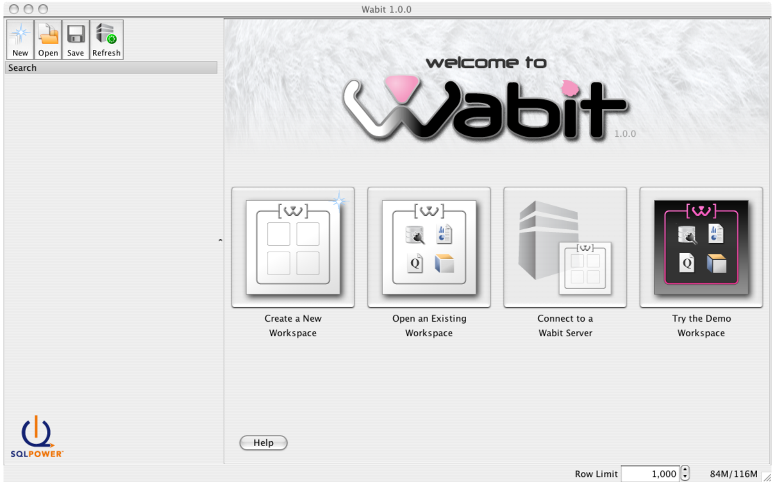
The Wabit User Guide covers all of the features in Wabit and contains a step-by-step walkthrough of creating a simple report. The guide assumes you are familiar with basic database operations and terminology.

Wabit Licensing and Distribution

Wabit is free and open source software, meaning that the source code is readily available. Everyone is free to inspect, comment on, and modify Wabit's source code. Anyone who modifies the program code is invited (but not required) to contribute their changes back to the project. All contributions are subject to review and acceptance by the Wabit team. We always welcome suggestions from Wabit users, in the spirit of making the application easier to use and providing the features that matter the most to you.

Wabit is distributed to the public under the GNU Public License Version 3. A copy of the license is available in the section called “Appendix A: GNU GPL Version 3” of this User Guide.

Chapter 2. The Welcome Screen



Opening a Workspace

The welcome screen is shown to the user

- when opening Wabit for the first time
- when Wabit is not opening up an existing workspace
- when the current Wabit workspace has been closed

From this screen, the user can choose to create a new workspace, load an existing one, connect to a server, or explore a demo workspace provided with Wabit. The user can also access the user guide from this screen or simply quit the application.

To create a new workspace, click the create new workspace button which will take you to a list of your data sources. You can either choose an existing data source to use as a database connection or create a new one. For more information on creating a database connection see Chapter 4, *Setting up a Data Source*. After selecting your data source, click on the start button to create queries and reports based on that database connection.

To open an existing workspace, click the open existing workspace button which will then ask you to locate the workspace you want to load.

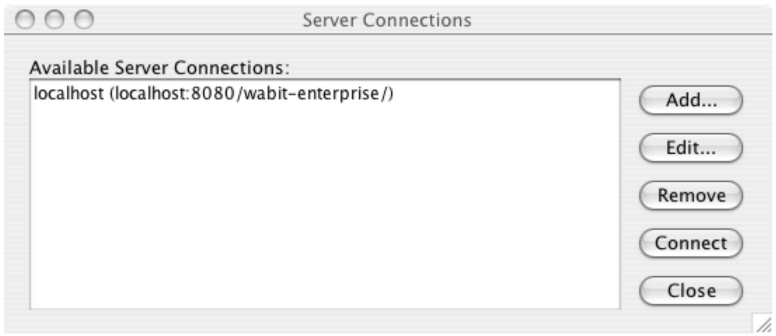
To connect to a server, click on the log in to Wabit server. You can either choose a server from this menu to connect to or configure a new server to connect to instead. For information on how to configure a server connection see the section called “Connecting to a Server”

To open the demo workspace, click the open demo workspace button. The demo workspace is for new users to get a feel of the application and its potential. It includes a database connection which contains a few tables for the user to play around with. A few queries and reports have been designed to display the application's different features.

It is also possible to have multiple workspaces open at the same time. Once you have either created a new workspace, or opened an existing one, you can then open the file menu and select 'New Workspace' or 'Open Workspace'. You can toggle between the workspaces and the search feature by selecting the desired tab at the top of the workspace tree.

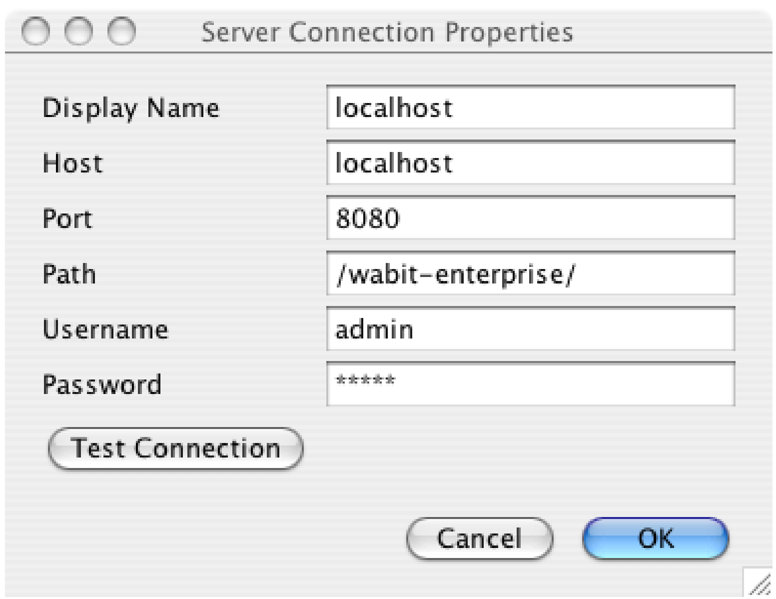
Connecting to a Server

To configure a server connection click on the log in to Wabit server button on the welcome screen and select configure server connections. This option is also under the file menu for when you are not on the welcome screen.



Creating a new connection

To create a new connection to a server:

1. Click on the Add... button
2. 

In this field ...	Do this ...
Display Name	Enter a name for the server connection.
Host	Enter the name or IP address of the server to connect to.
Port	Enter the port number that the server allows a Wabit client to connect to.
Path	Enter the base URI path to the Wabit server. This is "/wabit-enterprise/" by default but can be changed in the server configuration.

In this field ...	Do this ...
Username	Enter your user name for the Wabit server. By default the admin username is "admin". It is strongly recommended to be changed after the server has been set up.
Password	Enter your password for the given user name. By default for the admin user the password is "admin". It is strongly recommended to change this password after the server has been set up.

3. Click the Test to ensure the server information is correct

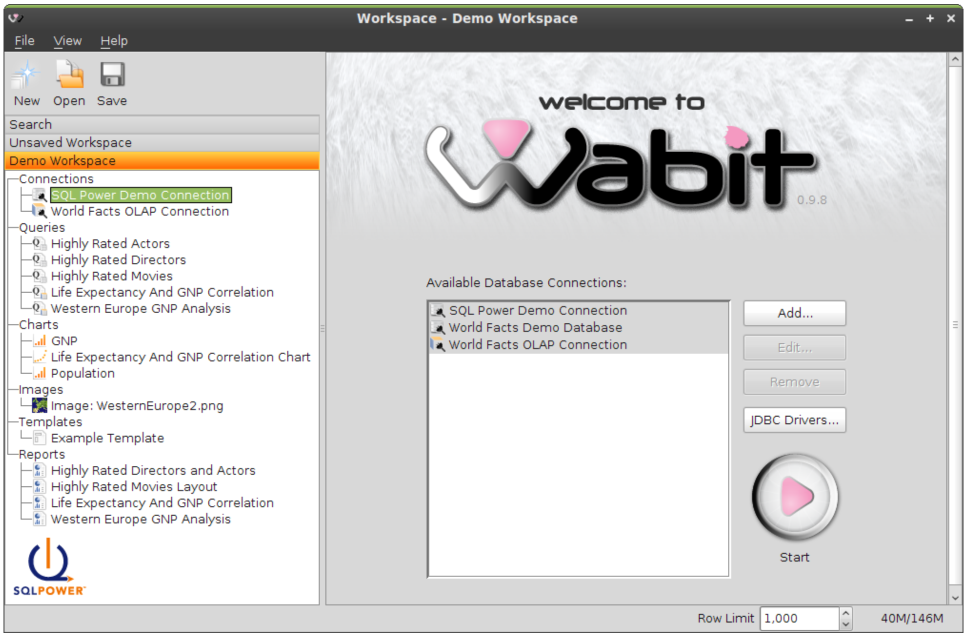
4. Press the OK button. The connection will be added to the list of server connections on the Server Connection screen. Press Connect to connect to the server.

Once you have successfully connected to a server all of the workspaces the user has permissions to see and the system workspace will be loaded from the server. Once the workspaces are fully loaded you will be able to navigate and modify the workspaces as you would a workspace loaded from a file as long as your user permissions allows you to make the desired changes.

Search

The search feature, found in the workspace tree area (left side), allows you to search for matches within all of your opened workspaces. If you do not have at least one workspace open, it will not return any results. For performance reasons, OLAP connections and unvisited relational database objects (schemas, tables, columns) are not included in searches. You can also form more complicated search criteria by selecting the drop down arrow on the right side of the search text box. You can then modify your query to search for substrings, exact matches, or even regular expressions.

Chapter 3. The Workspace Page



The workspace page is where additional data sources can be added and where queries from these data sources can be generated. A workspace must have at least one data source before you can create queries in it. To add a data source to the current workspace, select a data source from the list and press the Start button. Both relational databases and OLAP databases can be added as data sources to Wabit. For more information on creating a database connection see Chapter 4, *Setting up a Data Source*. Once a data source has been added to the workspace, queries can be made on the workspace from the query builder. The left-hand side window is known as the workspace tree, and it is area where your connections, queries, charts, images, and reports will be listed. To navigate between different editors in Wabit double click on the object in the tree to edit.

Chapter 4. Setting up a Data Source

Before creating queries in Wabit, a data source needs to be added to the workspace to tell the queries where the data is coming from. Wabit allows you to use any JDBC or ODBC-accessible database as a data source.

Relational Data Source

Supported Database

Wabit provides support for the following database platforms:

Database	Support Notes	JDBC Driver included
Oracle	Fully supported.	-
SQL Server	Fully supported.	Yes
PostgreSQL	Fully supported.	Yes
MySQL	Fully supported.	Yes
IBM DB2	Partial support; needs more testing.	-
HSQLDB	Fully supported.	Yes
Derby	Preliminary support exists.	-

Setting up Database Connections

You must set up a connection to allow Wabit to connect to a specific database. When you create a connection, it is added to your personal list of connections. Once defined, a particular connection can easily be added to any number of workspaces.

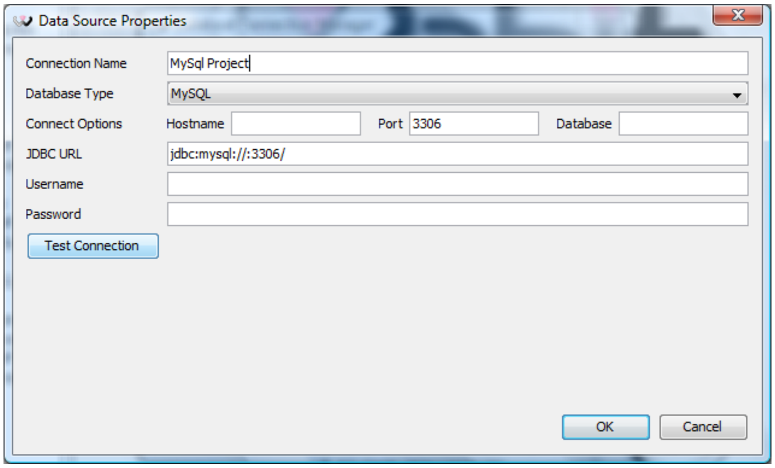
Before creating a connection, you must define the general settings for the database platform. Wabit already contains the general settings for the most common databases. If you want to set up your own custom database connection, see the section called “Setting up Database Types” .

Creating a New Database Connection

To create a new database connection:

1. Open the file menu and select 'Database Connection Manager...'

2. Click the Add... button, and then select 'Database connection...'

3. 

In this field ...	Do this ...
Connection Name	Enter a name for the database connection.
Database Type	Select the database platform you want to connect to. Note: This list contains the database types you defined in the JDBC Drivers... panel which can be accessed from the workspace page. For more information, see the section called “Setting up Database Types” .
Connect Options and JDBC URL	Enter the connection options for the database driver. (Theses options are based on the database type you select.) If you are using one of the fully-supported drivers, the connection option parameters are added into the JDBC URL field in the order that the Java driver expects to see them (this string is sometimes called a "db URL" in Java terminology). In the following example: • The default port number from the database type has been entered automatically in the Connect Options. Note: You would not usually change a default value unless the database server you're connecting to has been configured to use a different value. • The hostname and database name have been entered manually in the Connect Options.
Username and Password	If necessary, enter the username and password to connect to the database.

4. Click OK. The new connection is added to the list of available connections. Note: The Database Connection Manager can also be accessed by right-clicking anywhere on the workspace tree.

Setting up Database Types

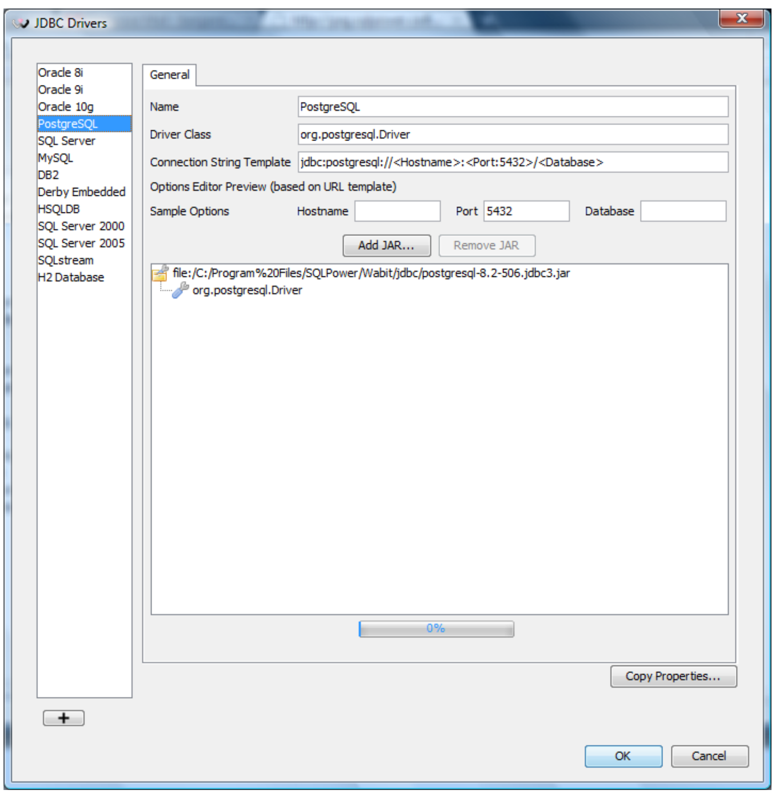
You must define general settings for the database platforms you plan to work with (such as SQL Server, MySQL, Oracle, DB2, etc.). These settings will be used by Wabit when you set up a connection to a specific database server. The most common database types are predefined in Wabit by default.

Note: Remember, at this point you are configuring general settings only and are not connecting to a specific database. For more information on connecting to a database, see the section called “Setting up Database Connections” .

- General settings for several database platforms are already pre-configured in Wabit. If you plan to work with one of these database platforms, all you need to do is define the location of the JDBC driver. For more information, see the section called “Defining the JDBC Driver” .
- You can also define additional database platforms in Wabit. For more information, see the section called “Adding a New Database Type” .

Adding a New Database Type

To add a new database type:

1. Go to the workspace page by selecting the top workspace folder or any data source shown in the workspace tree on the left.
2. Click the JDBC Drivers... button.
3. Click + below the list of database types.
4. 

   Enter the following information on the General Tab:

In this field ...	Enter the following information ...
Name	Name for the database type (for example, PostgreSQL or SQL Server).

In this field ...	Enter the following information ...
Driver Class	Java class name of the driver. This is the driver class within the JDBC driver JAR file that will be used for database connections.
Connection String Template	General format of the JDBC URL for the database platform. Important: You are not creating a connection for a specific database - you are entering a generic connection string that applies to the database platform. Later on, when you set up a connection to a specific database, Wabit will use this template to create the URL to connect to the database. The connection string template must conform to a specific pattern that includes literals and variables. • Literals are entered like normal text but may not contain angle brackets (< or >), which are reserved for defining variables. As the name implies, literals appear in the URL in the same position and way they appear in the template. • Variables are used for values that change often, such as the schema or database name you wish to connect to. To define a variable in the template, use the format <variable_name:default_value> (to include a default value) or <variable_name> (if you don't want to include a default value). If you use a default value. it is entered automatically when you create a database connection. You can modify the value if the database you are connecting to is configured to use a different value. Each variable you define is shown below the Connection String Template field. This provides you with a preview of the values you will be able to modify when creating a database connection. For example, the connection string template to connect to a Microsoft SQL Server database might look like this: jdbc:sqlserver://<Hostname>:<Port:1433> When you create a connection to a specific SQL Server database, Wabit will use this template to create the connection URL. In this example, the template will create the URL "jdbc:sqlserver://:1433", where 1433 is the default port value. Since SQL Server databases listen to port 1433 by default, it makes sense to include this value in the template. When you're creating the actual database connection, you can change the port value if the database you're connecting to is configured differently.

5. Next, you must define the location of the JDBC driver for the database type. For more information, see the section following the section called “Defining the JDBC Driver” .

6. Click OK.

Defining the JDBC Driver

Whether you are adding a new database platform to Wabit or want to use one of the pre-configured platforms, the last step in setting up a database type is to locate the JAR file (or files) that contain the JDBC drivers for the database platform.

Note: Remember, at this point you are just telling Wabit where the drivers are. You must set up a database connection in order to connect to a specific database server (for more information, see the section called “Setting up Database Connections”).

Unlike most applications, which need a distinct driver program to communicate with each type of database, Wabit uses Java-based drivers. These drivers normally come from the database vendor in the form of JAR (Java Archive) files. JAR files are an extension to the file format used by PKZip/WinZip archives.

Most database platforms provide drivers that are fully backward compatible. This means that it is best to use the newest driver available, regardless of the software version on the specific database server you intend to connect to. One exception to this is the Oracle database. It is important to match the major version number of your JDBC driver with the major version number of the Oracle database server you connect to. For example, if you are connecting to an Oracle 10g database, use the latest Oracle 10g driver. If you are connecting to an Oracle 9i database, use the Oracle 9i driver.

To define the JDBC driver for a database type:

1. If you do not have the JDBC driver for a specific database platform, you can usually obtain one from the database vendor. If that fails, you can find a directory of databases drivers on Sun's web site [http://developers.sun.com/product/jdbc/drivers] . There is also a permanent thread in the Power*Architect user support forum [http://www.sqlpower.ca/forum/posts/list/401.page] , where you can share information with other SQL Power tool users about finding and configuring drivers for a particular database platform.

2. Decide on a permanent location to store your JDBC drivers. A good strategy is to create a JDBC folder under your Documents folder and collect all of you JDBC driver files there.

3. Save the JDBC driver (it will usually be one or more JAR files) in the location you've chosen.

4. Go to the workspace page by selecting the top workspace folder or any data source shown in the workspace tree on the left.

5. Click on the JDBC Drivers... button

6. On the JDBC Drivers... window, select a database type.

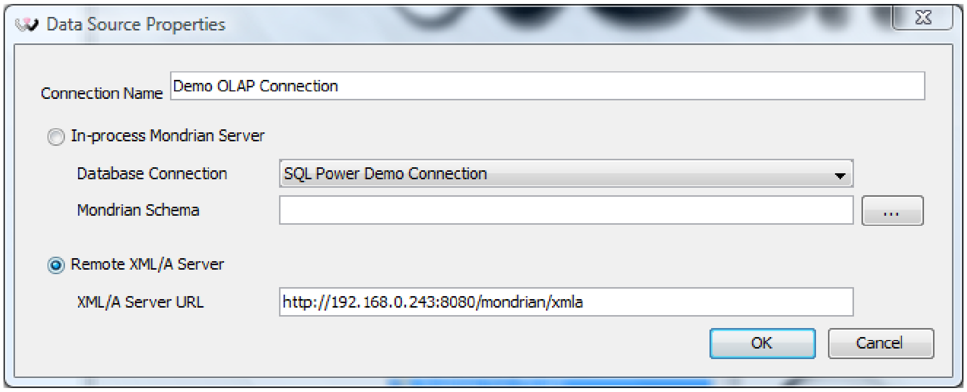
7. Click Add JAR.

8. Locate the JAR file and click Open. If there is a valid driver class in the JAR file, a file tree will appear showing the JDBC driver classes within the JAR file.

9. Select the driver you want to use.

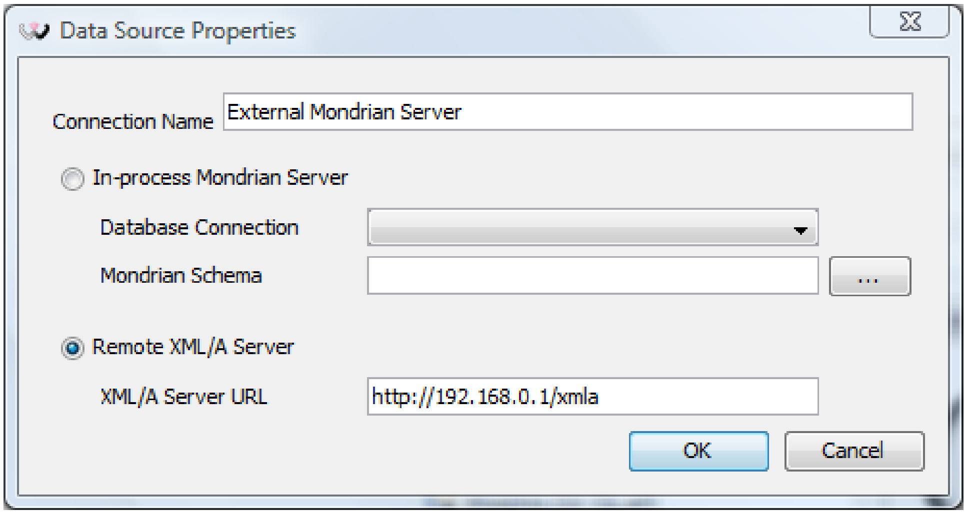
10. Click OK.

OLAP Data Source



In Wabit you can choose between the integrated Mondrian server and an external OLAP server as your data source. The external OLAP server must support the XMLA standard. For more information on XMLA please see the article on Wikipedia. [http://en.wikipedia.org/wiki/XMLA]

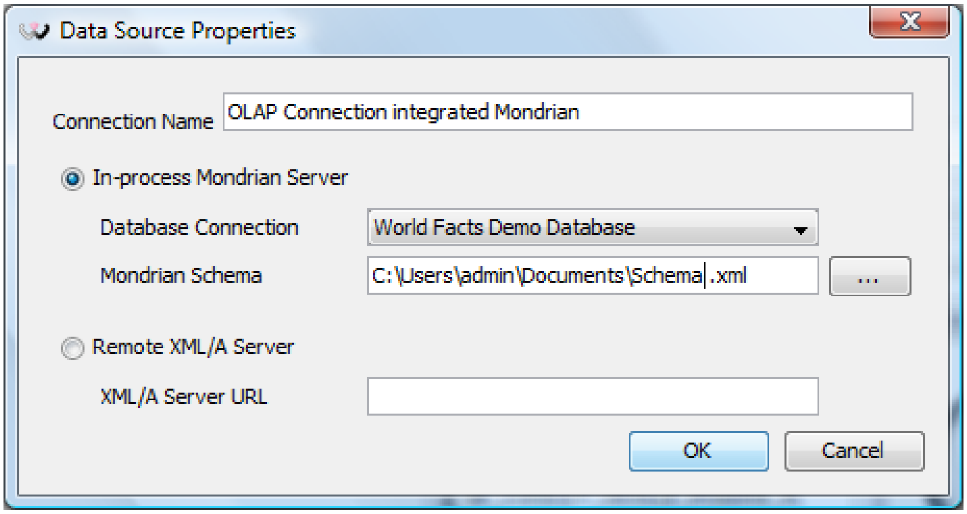
Connecting to an OLAP server



To connect to an external OLAP server:

1. Open the file menu and select 'Database Connection Manager...'
2. Click on the 'Add...' button.
3. Click on 'OLAP connection...'.
4. Enter a name for the connection
5. Select Remote XML/A server.
6. Enter the URL of the remote OLAP server into the field 'XML/A Server URL'.
7. Click on 'OK'.

Connecting to the integrated Mondrian server

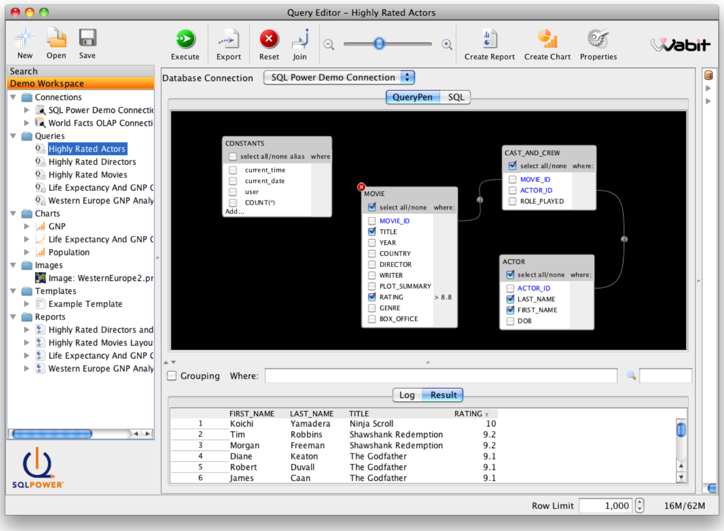


Wabit comes with an integrated Mondrian Server. In order to use it you must first setup a connection to the relational data source that your OLAP schema relates to. For more information on setting up a relational data source, see the section called the section called “Relational Data Source”.

To create a new OLAP connection using the integrated Mondrian server:

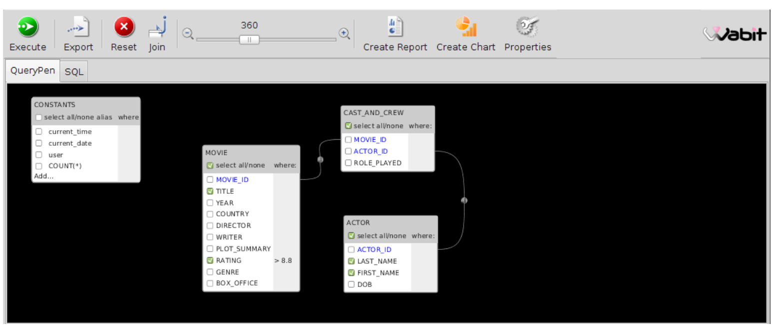
1. Go to the workspace page by selecting the top workspace folder in the workspace tree on the left. You will see all available database connections.
2. Click on the 'Add...' button.
3. Click on 'OLAP connection...'.
4. The data source properties window will appear.
5. Enter a name for the connection.
6. Select the relational database connection you want to use.
7. Enter the path to the Mondrian schema file or click on the [...] button to locate the file on your computer.
8. Click on the 'OK' button.

Chapter 5. Relational queries



The query builder allows users to design queries through a graphical or textual interface. The query builder has three main sections: the workspace tree (left section), the query pen / SQL text editor (top-right section), and the results / log (bottom-right section). You can toggle between the query pen / SQL text editor or the results / log by selecting the appropriate tabs found at the top of their sections.

The Query Pen



Click the following toolbar buttons to...

1.  - execute the current query (Shortcut: CTRL + R).

2.  - export the current query to a new Wabit workspace file, or to a new SQL script file.

3.  - reset the query.

4.  - create a join from a column in a table to another column in another table (Shortcut: The accelerator key + J).

5.  - zoom in and out of the query (Shortcut: To zoom in, the accelerator key + the shift key + "+" and to zoom out, the accelerator key + the shift key + "-").

6.  - generate a report based on the current query.

7.  - generate a chart based on the current query.

8.  - access the query properties panel.

Creating a query

The query pen allows you to create queries by dragging and dropping tables from the workspace tree once you have expanded the desired connection on the left side. When a table is dropped into the query pen it will be populated with all of its columns selected and a join will be created for each existing relationship between the dropped table and any table currently in the query pen. To maximize or minimize the query pen size, use the shortcut: Ctrl + Spacebar or go to the View menu and select "Maximize Editor" or use the vertical and horizontal split panes.

Each table dropped into the query pen can be modified in several ways:

1. The table can be given an alias by clicking on the table name and changing it. To remove the table alias and reset it to the column name, clear the editing space completely and press enter.

2. Columns in the table are added to the query if they have a check mark besides their name. Columns are easily added or removed by selecting or deselecting their check box. All the columns in a table can be turn on or off at the same time by checking or un-checking the "select all/none" check box in the table header.

3. Columns can be aliased by clicking their name and changing it. To remove a column alias, set the alias back to the column's original name or remove the alias text while editing it.

4. A where clause can be given to a specific column by clicking in the “where” field to the right of the column. For example, if we want all movies with a rating above 8.0 adding the text “> 8.0” to the right of the“rating” column. Note: When comparing strings, you will have to add single quotes around the text. Eg. FullName = 'John Doe'.

Joins

Joins can be created between two columns in the query pen by selecting the join button and clicking on two columns in different tables. The type of join created between the two columns defaults to an inner join equating the columns. To change how the join relates the two columns, right click on the middle node in the join to see all available options to use to join the columns on. To change the join from an inner join right click near the join line on the side that is to be changed to get a menu. From this menu, the join can be changed to an outer join on that side. If a full outer join is desired, both sides of the join can be changed to outer join. You can also delete the join by selecting it, and then either pushing the delete button or by hitting the delete key.

Constants

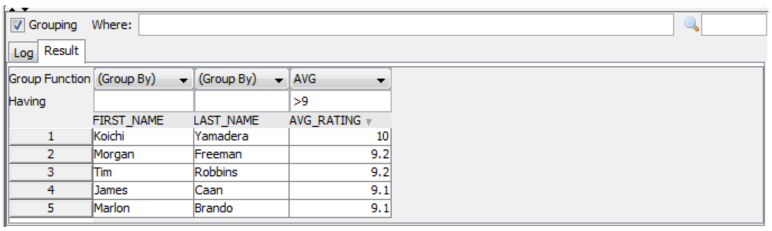
Along with the tables in the query pen is a constants table. This table can have additional columns defined that are constants, functions, or modified/derived columns in the existing tables. To add a constant to a query click the “Add...” field at the bottom of the table. This will allow the constant to be typed in. When the constant is complete, it will be added to the constants table. To modify the constant at any time, just click on it. Constants can be added or removed from a query, and be given a where clause just like columns in any other table. To add an alias to a column, click in the alias field to the right of the column. If functions are needed on the graphical query builder they can be placed in the constants table even if they require columns. The only restriction on adding functions depending on columns is the tables containing those columns must be in the query, even if nothing is selected from them.

Finished Queries

Once a query is complete, a report layout can be created from a default template using the report from query button. Additionally, the query can be exported as SQL text to a file, or the query and its associated data source can be exported to an existing Wabit workspace. Exporting a single query allows others to import that query into their workspace for other uses.

To add a more general where clause to the query or add grouping to the query on the graphical query see the section called “The Result”.

The Result



The result of each query is shown in the lower portion of the query page. The result have a log of all executed statements as well as the result set of the last executed statement, if it exists. Every time the graphical query is modified or the text side is executed the results and log will update.

Where clause

The “Where” field in the results allows specifying a generic where clause to the query. If multiple conditions are to be specified in the “Where” field they must be separated by an AND or OR. All other where clauses between columns will be separated by an AND.

Grouping

The grouping check box allows columns to be defined as grouped or aggregated and allows "Having" clauses to be defined for each column. When the grouping check box is checked in the graphical query side the result table will have a group by selection and a "Having" field. All columns from the database are defined to be grouped by while constants are counted by default.

Sorting

Sorting columns is done by clicking on the column header. The sort order of each column is defined by an arrow pointing up for ascending sort and down for descending sort. Clicking on the header of a column will change the sort order to ascending, then descending, then back to the default removing the sort order. To cycle through the sorting states in the reverse order, hold down the shift key and click on the column header. To sort multiple columns at once, the ctrl key can be held down and the columns can be sorted starting at the first column to sort and finishing at the last column to sort.

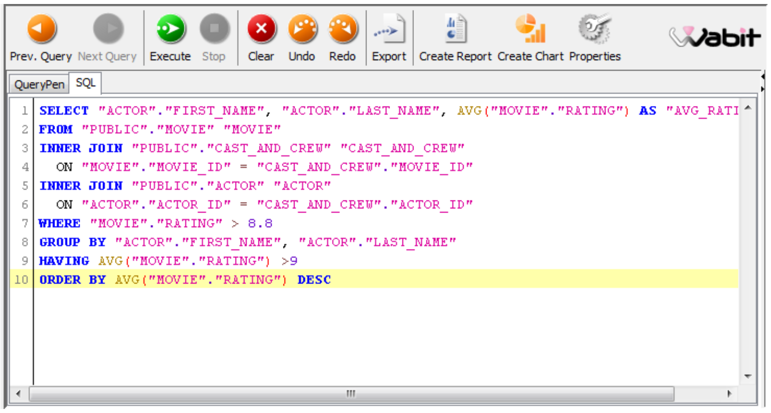
Order of columns

Column order in the query can be modified from the result set. You can drag a column by its header to a new position in the results and thus rearrange the order of the columns in the query.

Search in results

The current results can be searched on using the search field. Although this field does not modify the query it can be used to find if expected values are being returned by the query. The search field will search all columns for the entered text and change the results shown to only show rows containing a cell with the text. Note: This search will only search the current results and will not search columns not displayed by the last query. This means if the result is larger than the row limit defined not all rows returned by the query will be searched.

The Query SQL Editor



For all queries created in the Playpen, Wabit generates the SQL query used to retrieve the results. Individuals with SQL programming expertise may customize the queries in the SQL Text Editor.

Click the following toolbar buttons to...

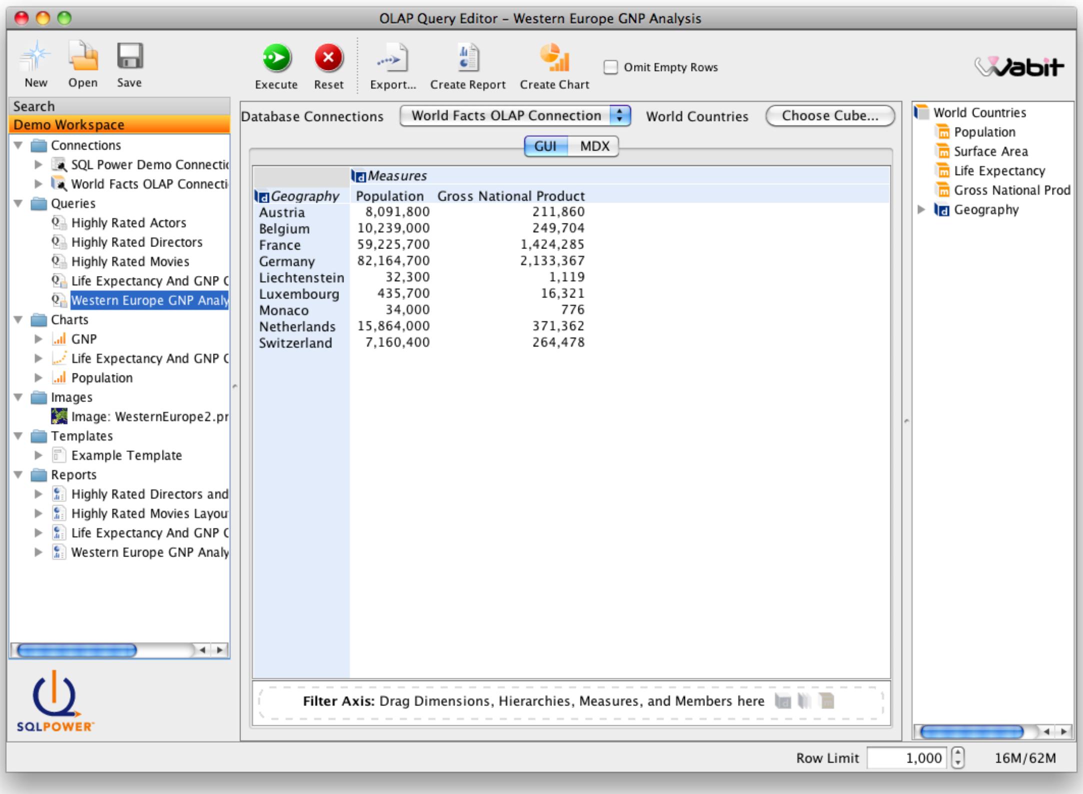
1. - replace the current query with the query executed last.
2. - replace the current query with the query executed after it.
3. - execute the current query (Shortcut: The accelerator key + the enter key for whatever text is highlighted).
4. - stop executing the current query.
5. - clear all text on the text editor side.
6. - undo the last change made with the text editor.
7. - redo the last change made with the text editor.
8. - export the current query to a new Wabit workspace file, or to a new SQL script file.
9. - generate a report of the current query.
10. - access the query properties panel.

The SQL text editor in the query builder will allow any free formed SQL statement to be executed. If changes were made to the graphical builder then the text editor will start with a query generated from the graphical builder. *If the text of the query is modified then the graphical editor will not be accessible unless the changes to the text are discarded.* In later releases it may be possible to go freely between the graphical and textual editors. Queries created or modified in the text editor can also be exported and have report layouts created from them.

Chapter 6. OLAP queries

Wabit allows you to create OLAP queries based on existing OLAP connections. To learn how to add a OLAP connection, please read the section called “OLAP Data Source”.

The OLAP query editor



Click the following toolbar buttons to...

1.  - execute the current query.
2.  - reset the query.
3.  - export the current query to a new Wabit workspace file.
4.  - create a report based on the current query.
5.  - generate a chart based on the current query.

Create a new OLAP query

To create a new OLAP query:

1. Right click on the workspace tree and select 'New OLAP query'.

2. The OLAP query editor will open.

3. Select the OLAP connection your query should be based on.

4. Click on the button 'Choose cube...', which is found in the cube explorer (beside Database Connections), to select the cube you want to use in your query.

5. Now you can drag the dimensions and measures into the OLAP query editor. Wabit will automatically run the query and show the results.

6. To drill down or up just click on the dimension element you wish to drill down or up on.

Navigating OLAP Queries

Right clicking on a dimension element will give you some or all of the following options, depending on the level the element is in.

- Remove Hierarchy: Removes the selected hierarchy.
- Clear All Exclusions: Clears all Exclusions.
- Exclude Member: This Member will be excluded. You have to select "Clear all Exclusions" to include the item again.
- Exclude Children: All Children of this member will be excluded. You have to select "Clear all Exclusions" to include the children again.
- Drill Replace: The current element will be set as your top element.
- Drill up to...: The element drilled up to will be set as your top element.

You can also add filters to your OLAP query by dragging in dimensions, hierarchies, measures and members into the bottom filter axis. By filtering your OLAP query, you will only see results which meet the filter criteria.

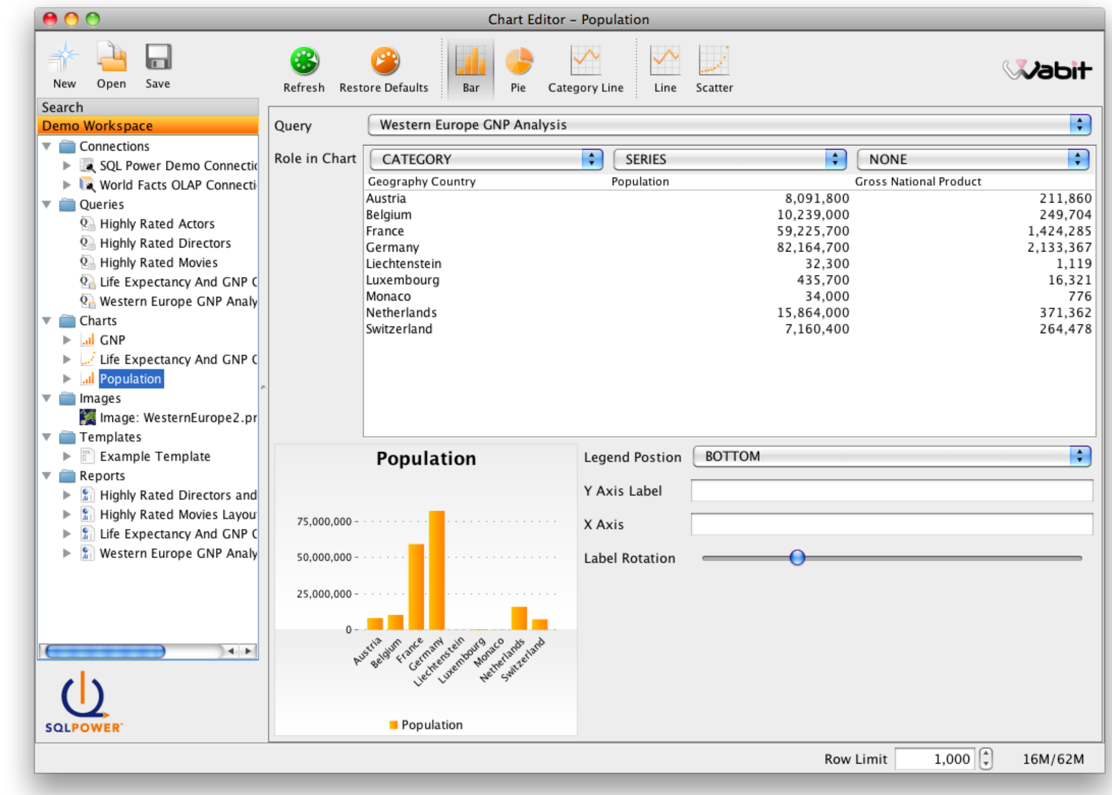
The MDX query viewer

Just as the SQL queries created in the Playpen, Wabit generates the MDX query used to retrieve the OLAP results.

To view the created MDX query, click on 'MDX' tab above your OLAP query editor.

Chapter 7. Charts

To create a new graphical representation of your data with Wabit, right-click the Charts folder in the workspace tree and select 'New Chart'. You will then be shown a screen where you can customize your chart.



Click the following toolbar buttons to...

1.  - refresh the chart to be synchronized with the query it was built upon.

2.  - Wabit sets the chart properties to their default values (Strings are set to category, and numerics are set to series).

3.  - bar graph.

4.  - pie chart.

5.  - category line graph.

6.  - line graph.

7.  - scatter plot graph.

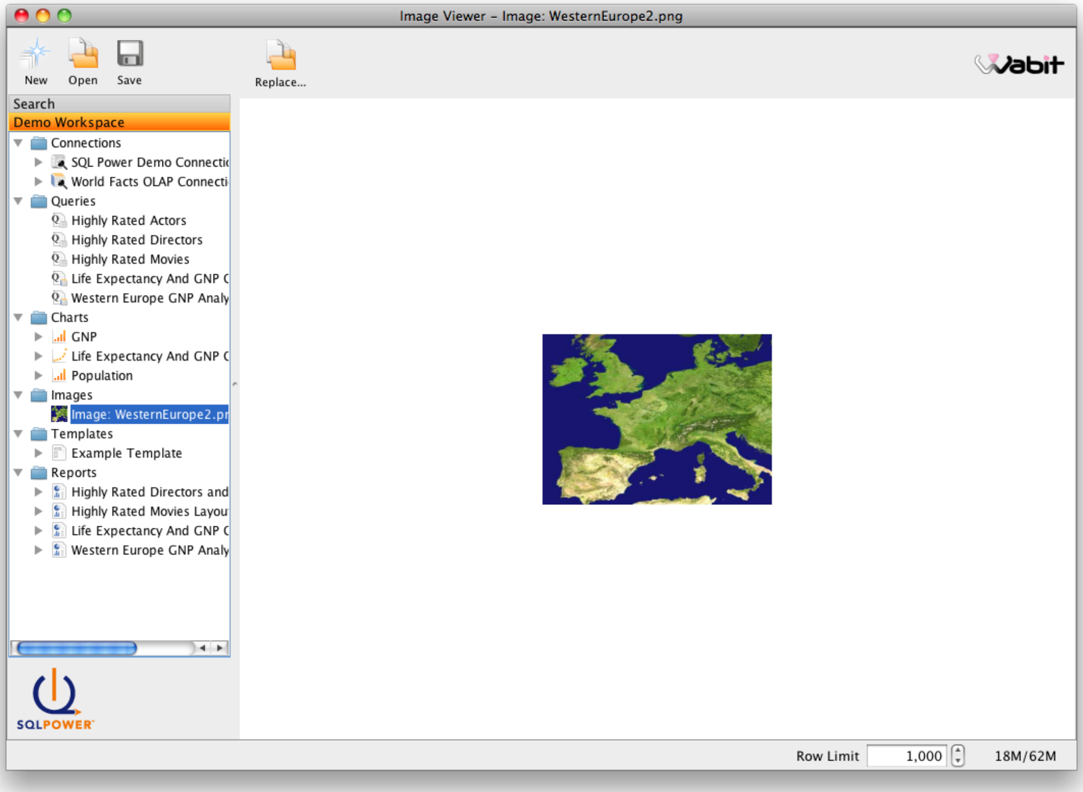
After you select the type of graph you would like to create by clicking on one of the five icons, you can then select which query you would like this chart to be based upon by using the query drop down menu.

Once a new query and chart type have been selected, you will be able to see the chart in the preview window at the bottom left corner.

To change the chart design, you can can set the role in the chart for each column of the query. If the column is made up of alphabetic characters, you can assign it to be a category for the chart. If the query column is numeric, then it can be assigned to either a series or a category for the chart. When you are working with either a line or scatter plot graph, you must set the numeric series to be plotted, as well as the numeric series with which it will be plotted against.

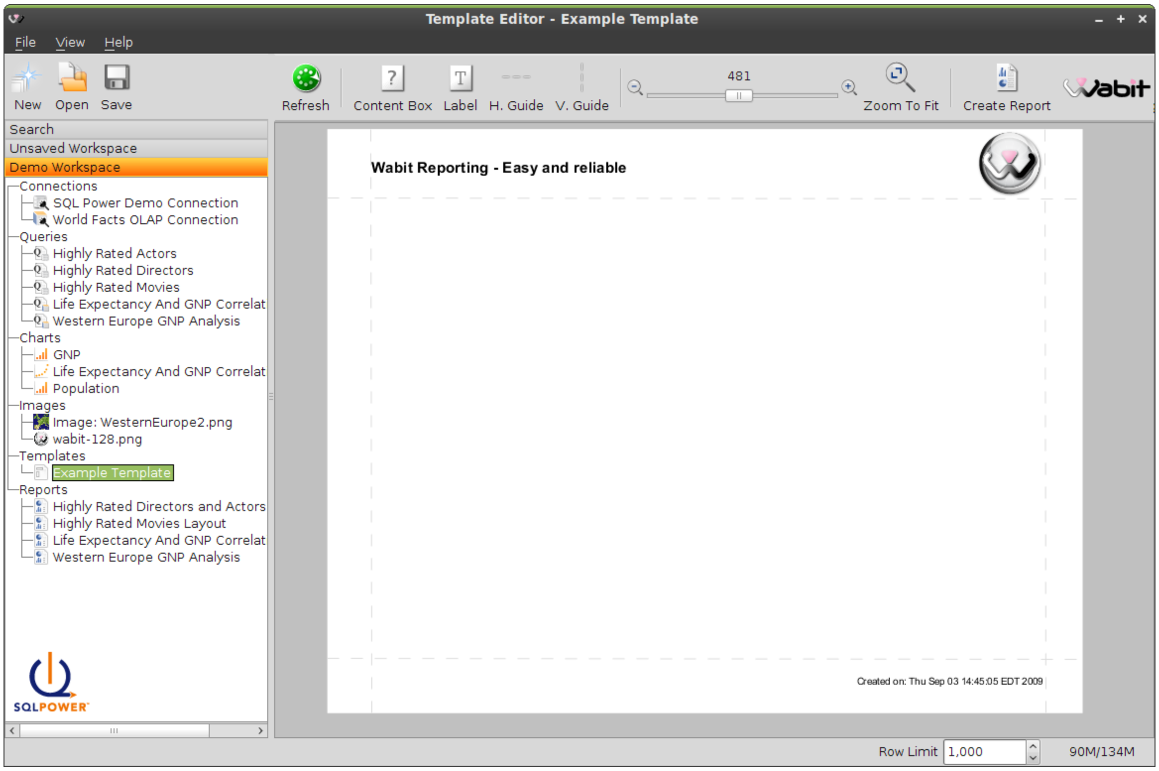
Finally, the labels on the chart (legend, x-axis label, y-axis label, and label rotation) can be configured using the form in the bottom right corner of the screen.

Chapter 8. Images



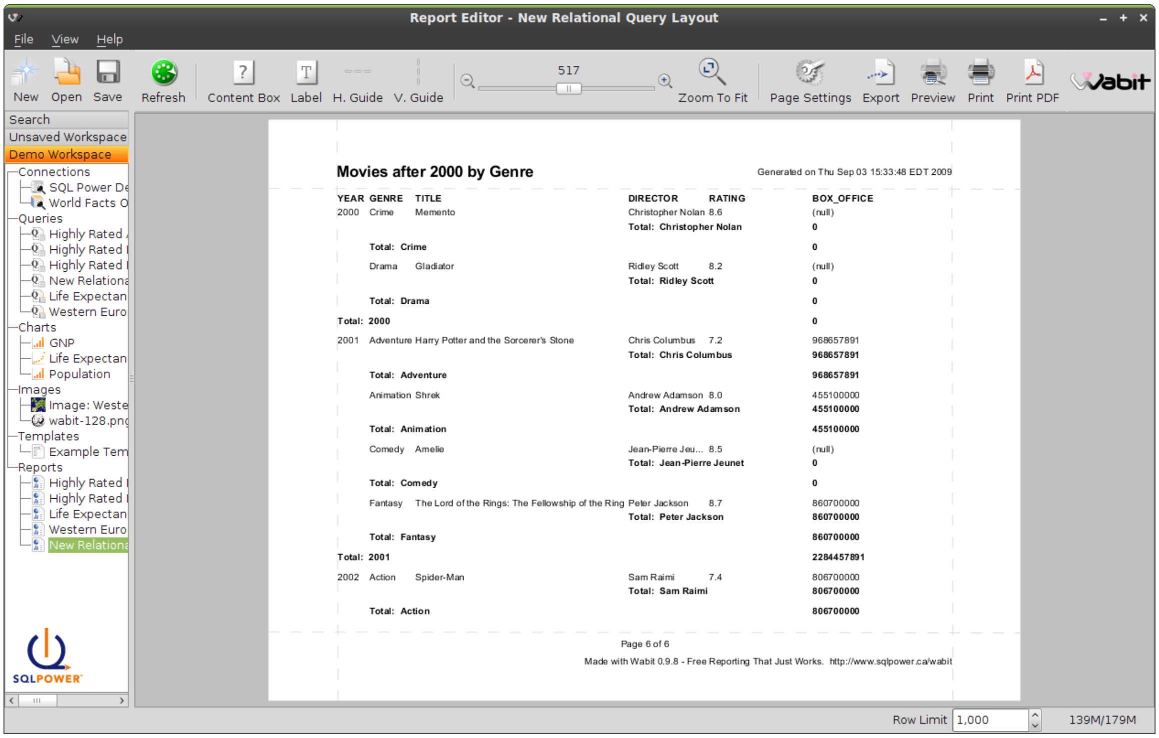
Adding images to a workspace, which can then be incorporated into reports, is easy with Wabit. Right-click the Images folder in the workspace tree, and choose 'New Image'. You can then either drab an image file into Wabit from a different source (eg. an image file from a file explorer window) or you can click anywhere on the image layout screen which will give you an option to browse for images. When you navigate to the desired photo, simple click the open button and it will be added to your workspace. You can rename or copy the image by right-clicking its name in the workspace tree and selecting the appropriate command.

Chapter 9. Templates



Templates are used for setting up commonly used layouts for your reports. To start a new report template, right-click the templates folder in the workspace tree, and select 'New Template'. You can then modify the template by adding images, content boxes, labels, page properties, etc.. Once you complete the layout, you can then create a report based on this template by right-clicking the Reports folder in the workspace tree and select 'New Report'. You will then be prompted to choose a report layout based on the templates you had previously created.

Chapter 10. Reports



Click the following toolbar buttons to...

1.  - refresh the report to synchronize it with the queries it is based upon.
2.  - add a content box to the report.
3.  - add a label to the report.
4. - add a horizontal guide to the report.
5. - add a vertical guide to the report.
6.  - zoom in and out of the report.
7.  - auto-zooms to fit the report on the screen.
8.  - access the page settings.
9.  - export the report the to a new Wabit workspace.
10.  - preview the report.
11.  - print the report.

12.  - generate a pdf file of the report.

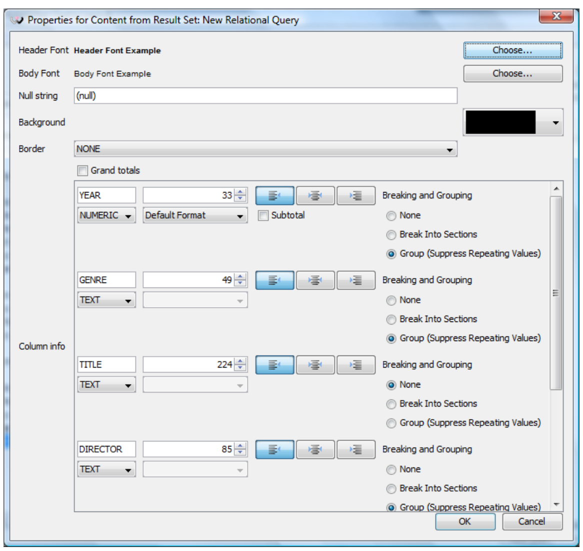
The report layout allows users to create and alter the look of a report. Reports can have any number of queries, guides, text boxes, charts, and images on them. You can easily drag in existing reports, images, and charts from the workspace tree into the report creation area. Once added, these components can be dragged around the layout as desired. When printed or exported, the report layout created will be repeated until all of the result sets added to the report have exported all of their values.

Query results

While laying out the report, you may want to add multiple query results to the report. To add a query defined in the workspace, drag and drop the query from the workspace tree into the query development area. Once on the report, the query can be resized like any other content box. To modify a query, double click it to show its properties window. Relational queries and OLAP queries have different properties as shown below.

NOTE: The current version of an OLAP query will be added to the report. Changes to an OLAP query after adding it to a report won't affect the report. You have to add the changed version to the report to see the changes.

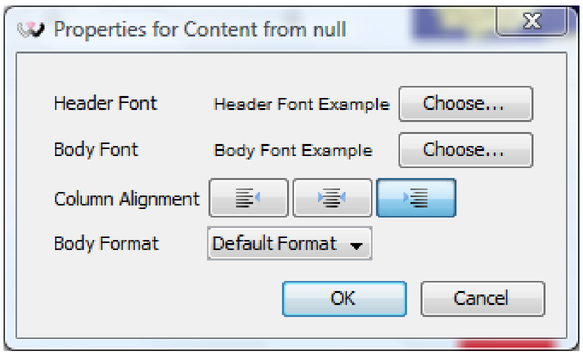
Properties for relational queries



Field	Meaning
Header Font	The font defined for the headers of the query results. The Choose... button will modify the header.
Body Font	The font defined for the values of the query results. The Choose... button will modify the header.
Null string	The string given will replace all nulls in the result of the query.
Background	Allows setting the background colour of a query. This lets queries be highlighted if they have significant importance on a report.
Border	Borders can be shown for each query. There are several border options to show only lines inside the result, a border around the results content box, or combinations of these.

Field	Meaning
Grand totals	The grand total will be added to the end of the report if activated
Column info	The column info has several fields for each result. Each column can have the column name, size and alignment modified. Columns can also have formatting specified for numeric and date columns and numeric columns can also be sub-totalled. Each column can also be defined to break on new values. Every time a new value appears in a column that is defined to break a space with a horizontal line separator will appear in the report. The column name and value will be displayed as subtitle.

Properties for OLAP queries



Field	Meaning
Header Font	The font defined for the headers of the query results. The Choose... button will modify the header.
Body Font	The font defined for the values of the query results. The Choose... button will modify the header.
Column Alignment	The alignment for all columns. By default the alignment provided in the OLAP Schema is used. The current release of Wabit doesn't support to align columns individually.
Body Format	The format for all columns. By default the formatting provided in the OLAP Schema is used. The current release of Wabit doesn't support to format columns individually.

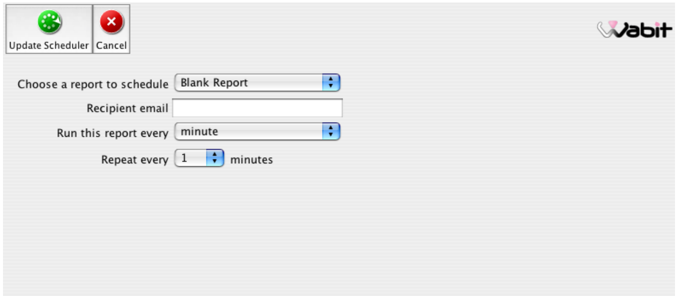
Charts

To add a chart, drag in a chart from the workspace tree. If you want to edit the chart properties, you have to go back into the design view of the chart and make edits there. Once the edits are made, you can refresh the report to see the new layout.

Guides

Horizontal and vertical guides are useful in organizing a report. Each report starts with two horizontal and vertical guides to define the margins of the page. To create a new guide, click the horizontal or vertical guide button and then click on the report for the guide's initial position. Once placed, the guide can be dragged left and right, if it is a vertical guide, or up and down, if it is a horizontal guide. When a guide meets a content box of any kind, including a query, the content box will snap to the guide and move with it until the content box is moved off the guide.

Chapter 11. Scheduled Reports



When connected to a server Wabit can schedule report bursts. If a report is scheduled it will be e-mailed to the recipient address at the defined interval as long as the server is running. After making changes to a scheduled report the update button must be pressed to make the changes affect the server. To schedule reports the mail.xml file must be configured to point to your smtp server. For instructions on configuring the mail.xml file see the section called “Defining an SMTP Service”

Click the following toolbar buttons to...

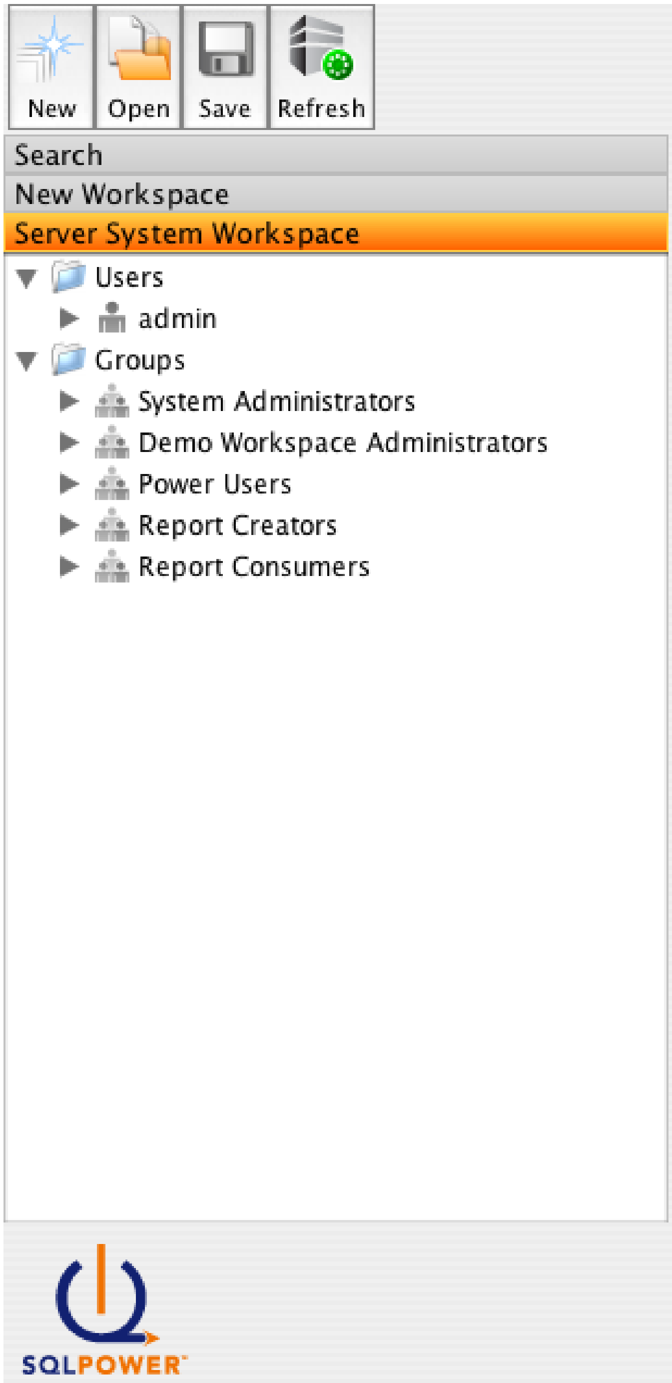
1. - update the scheduled reports properties on the server.
2.  - cancel the scheduled report. This will remove the scheduled report from the server.

Schedule a Report

To schedule a report...

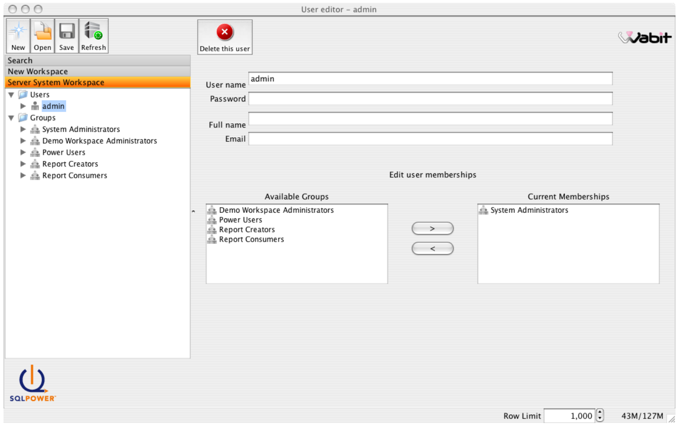
1. Right click on the workspace tree and select "New Scheduled Report".
2. Select a report that will be e-mailed at a regular interval.
3. Fill in the e-mail address of the recipient.
4. Select the time interval to send the report.
5. Update the schedule by pressing the "Update Scheduler" button.

Chapter 12. Server System Workspace



When Wabit is connected to a server a system workspace will be opened along with the workspaces the user connected as has permissions to. The system workspace is used by system administrators to create and modify users and groups. Changing permissions to create and modify users and groups can also be done from the system workspace.

Chapter 13. Users



Users are defined on the server to allow others to connect and use the server with different permissions. Each user must have a unique user name and a password. Users can also be named to help remember who each user is and an e-mail address that will be used in scheduling reports in the future. Each user can be included in any number of groups in the system. To learn more about groups see Chapter 14, *Groups*. When a user is first created it will start with no permissions in the server. To define permissions for a user see Chapter 15, *Security*

Create a New User

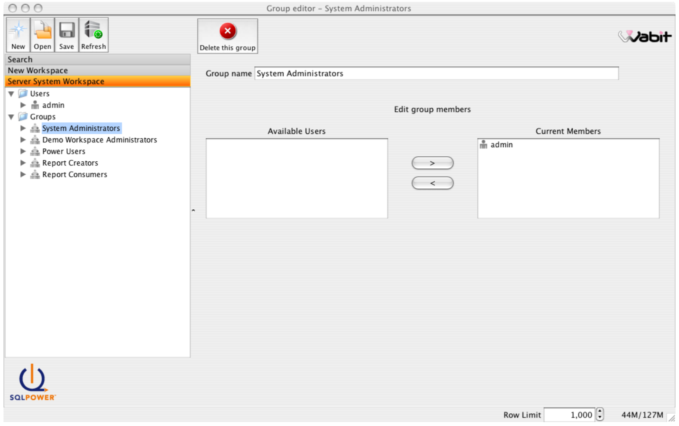
To create a new user...

1. Right-click on the server system workspace or press the "New" button in the tool bar with the server system workspace selected and choose "New User"

2. Define a unique user name for the user.

3. Define a password for the user.

Chapter 14. Groups

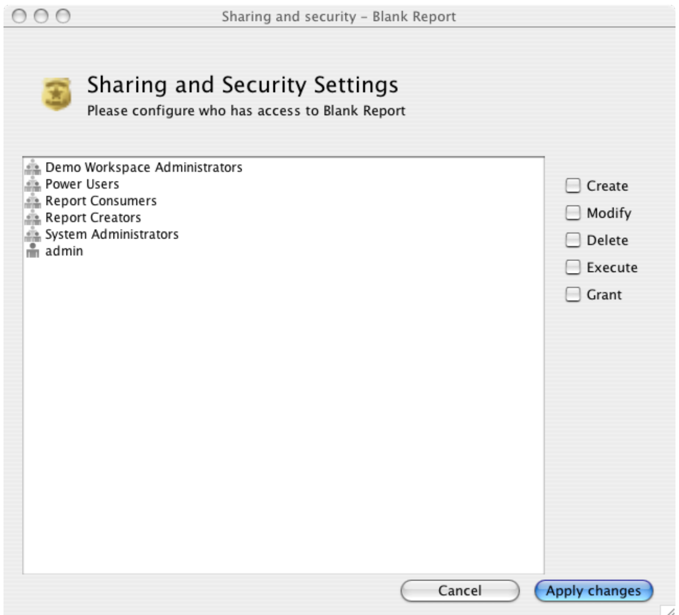


Groups allow defining multiple users to have the same permissions as each other. When a group is created it can be given permissions on any object like a user except all of the users in the group will gain the permission instead of just one user. The users in the group will only keep the permissions gained from the group as long as they are a member of that group. Additionally, any user can be a member of any number of groups.

Chapter 15. Security

When Wabit is connected to a workspace on the server each object has its own set of permissions that users or groups can be granted or revoked. This fine grained security can help people not accidentally modify or delete parts of a report when they don't have permissions to.

Setting security permissions.



To set or manage security permissions...

1. Right click on the object to change permissions on and select "Manage *Object* sharing and security.
2. Select the user or group to change permissions on from the list.
3. Check or un-check the types of permissions that the user should have granted or revoked. Note that you can only change someone's permissions if the user logged in as has the Grant privilege on the object and has the privilege that is being given or revoked.
4. Click the "Apply Changes" button when finished.

Security Policy

The following describes the security policies in Wabit.

A grant in Wabit is either on the system level or on the object level. A grant on the system level will apply to all objects of a specified type (eg Reports), while an object level grant will only apply to a specific object.

There are five types of grants in Wabit: Create, Modify, Delete, Execute, and Grant. An Execute privilege will allow a user to see and execute an object, or a type of object. Modify and Delete privileges both contain an implied Execute privilege. Modify is required to change any property on an object. It also allows a user to change, create, and remove children of that object (eg Add a content box to a report). Delete allows a user to remove an object from the workspace.

To read a workspace a user is required to have either read permission on that workspace, read permission on any workspace, or read permission on any object within that workspace, whether that permission comes from a system level or object level grant.

A modify privilege on a workspace is a special case. This privilege is required to create, modify, or delete any object inside that workspace. If a user has a system level delete privilege on charts, they would still need a modify privilege on the workspace to remove a chart from it. A delete all charts privilege and a modify all workspaces privilege would let a user delete any chart in any workspace.

Create privilege can only be granted on a system level, because any object that can have a grant has already been created. A create privilege, in conjunction with modify workspace, will allow a user to create any number of objects of a specific type, within that workspace.

Grant privilege allows a user to grant access on an object to other users. If a user has grant privilege on an object, he can grant any privileges he has on that object to any other user. With a system level grant privilege on a type of object, a user could grant any privileges he has on any objects of that type.

When a user creates a new object, that user is automatically given modify, delete, execute, and grant on that object. This way, a user can perform any action on an object he created, including grant access to others. If this user grants all of his grants to another user, the second user can then do anything the creator can do.

By using multiple workspaces, a system administrator can grant others system level permissions, but have them only apply to specific workspaces. For example, a user with create any privilege can still only create objects in a workspace upon which he has modify privilege.

By adding a User to a Group, the user can perform any action permitted by his own grants, as well as any action permitted by the group's grants. Some example groups are listed below.

Example Groups

Wabit comes with several groups defined that are common to most uses.

System Administrators. This group is given full system level grants on all objects, including Workspaces, Users, Groups, and Grants. Members of this group are allowed to make any change to any workspace. Because of the system level grants on Users and Groups, these users are allowed to create or remove any User or Group. They can also revoke any grant. In all circumstances, these users will have permission to perform the action.

Demo Workspace Administrators. This group is given full system level grants on all objects that exist within a workspace. That is, all objects except Workspaces, Users, Groups, and Grants. They are also given the object level modify permission on the Demo Workspace. This allows them to create, modify, or delete any object within the Demo Workspace. These users can perform almost any action the system administrators can perform, but are limited to the Demo workspace. They are also unable to modify Users and Groups, because those lie in the system workspace. Owing to their system-level execute permission on most object types, Demo Workspace Administrators are also allowed to view and execute all objects in all other workspaces.

Power Users. This group is given create grants on all objects the workspace administrators have grants on. They are allowed to create queries, charts, images, and reports. They can also modify and delete objects they have created, as well as grant others access to them. They cannot view, modify, or delete any object that was created by another user, even if that user is a member of this group. They can, however, be granted explicit access to such an object by a user with sufficient permissions, such as the creator or an administrator. Members of this group must be granted explicit access to a workspace before they can start working in it. This can be done either by the workspace administrator or any system administrator.

Report Creators. This group is given a system level create grant on Reports, as well as system level execute grants on other queries, charts, and images. They are able to create new reports, and use objects that other users have created in the reports. They cannot modify or delete these objects. They also cannot see other users' reports without explicit permission. Like power users, they must be given access to a workspace by another user, such as the workspace administrator, or a system administrator.

Report Consumers. This group is only given system level execute grants on reports. With this grant, they are able to read any report, in any workspace. They do not need specific permission on the workspace before they can read its reports. They are limited to reading reports, and cannot change or remove anything. They are also not given any permission to create new objects, or to grant others their permissions.

Examples of Security

The following are four examples of the type(s) of security a user must have in order to see an object or perform an action.

For a user to be able to see a workspace, they must either have an execute, modify, or delete grant on that specific workspace, a system level execute, modify, or delete grant on all workspaces, or be able to view any object in the workspace, either through object level or system level grants.

For a user to be able to read a report, they must have execute, modify, or delete privilege on that report, or a system level execute, modify, or delete privilege on reports.

For a user to be able to add a query to a report, they must have modify privilege on that report, modify privilege on the workspace that contains the report, and be able to view the relevant query.

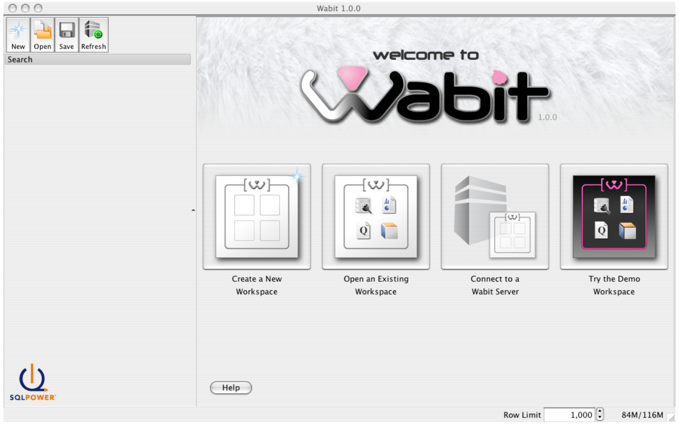
For a user to be able to create a new report, they must have modify privilege on the workspace that they want to add the report to, as well as system level create privilege on reports. Note that by creating the new report, the user will be granted modify, delete, execute, and grant privilege on the new report.

Chapter 16. A Wabit Walkthrough

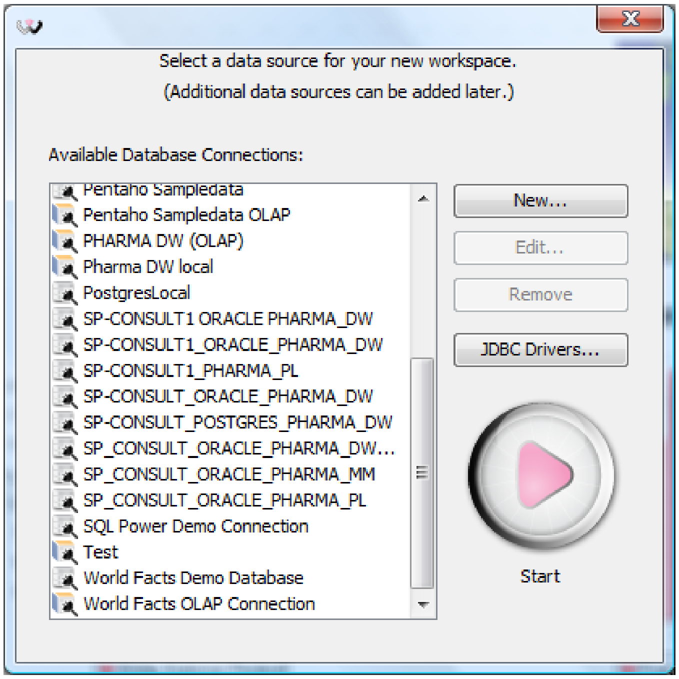
This section of the Wabit User Guide will walk the user through the creation of a simple report.

Welcome Screen

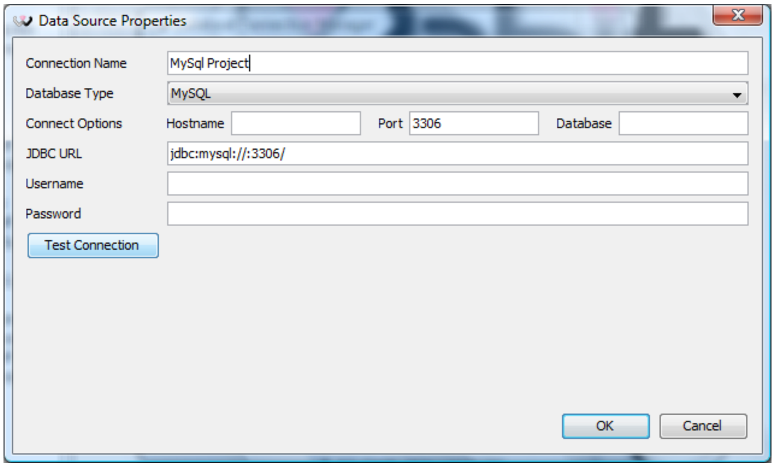
This is the first screen you see when you start Wabit. Click on the "Create a New Workspace" button to proceed.



The next screen shows you all of the currently existing data source connections that have been previously defined. The first step in creating a report in Wabit is adding a connection to the data source where your data is saved. To add a new data source click the "New" button which will bring up the data source properties window. Connections can also be added from the workspace page.



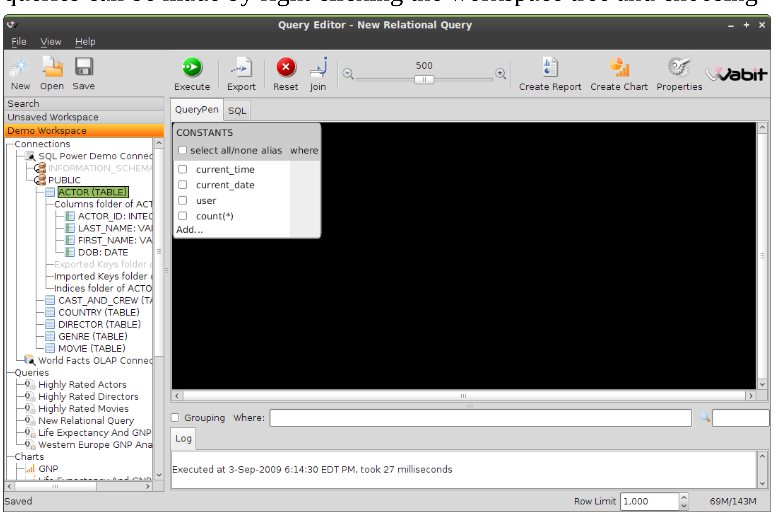
Creating a Connection



Specifying the data source's type will partially populate the JDBC URL. If additional information is needed for the URL they will be able to be set from the connection options. After the JDBC URL is specified, the data source's user name and password need to be set, and a name needs to be given to the connection. Once the data source is specified, the connection can be tested with the "Test Connection" button. If there are any problems with the JDBC driver refer to the section called “Defining the JDBC Driver”. After adding the data source select it from the list and press the start button.

Creating a Query

After adding a data source to your workspace, Wabit will create and display a new empty query. Additional queries can be made by right clicking the workspace tree and choosing "New Query".



The query builder allows users to easily put together queries by dragging and dropping tables into the query pen. The following example is based off the demo database included with Wabit.

Lets say we want to create a query to get the names of all the action movie actors. Lets first rename the query to "Action movie actors" to remember what the query is for. Renaming a query is done simply by double clicking the query in the workspace tree.

Selecting tables

To start making the query, tables will need to be brought in from the database. On the database tree, on the right of the tool, expand the SQL Power Demo Connection database and then expand the Public catalog. Under the Public catalog is a list of all of the tables in the database. The first table needed is the Actor table. The table can be added to the query by dragging it from the tree to the query pen. The next table needed is the Movie table to know which movies are action movies. The last table for the query is the Cast_and_crew table which will join the Actor table to the Movie table. When the Cast_and_crew table is dropped into the query pen, it will automatically create a join for each relationship in the database.

Selecting columns

Now that the query has several tables, the results at the bottom of the screen will have a table populated with some of the values from the database. The results will be updated each time the query is modified. By default Wabit displays all columns of all tables in the playpen. Next we need to remove columns from the result that we don't need. Since we only want the names of the actors we can remove all of the columns in both the Movie and Cast_and_crew tables. This is done quickly by un-checking the top check box in each table. The actor_id and dob are also not needed so they can be un-checked as well.

Adding a condition

To find the actors that played in action movies a where clause will be needed on the genre of the movie. To add a where clause click on the where column to the right of the genre field in the movie table. As only movies with the genre "Action" are desired the field will need to contain "= 'Action'".

Reorder results

Now in the results there should be a table with only two fields "last_name" and "first_name" with only actor names that played in action movies. Before moving to the report layout lets reorder the results, sort them, and modify their column names. To order the results simply click the header of a column, columns can be sorted in ascending or descending order. If multiple columns are to be sorted hold Ctrl and click on the header of each column to sort starting from the first column to be sorted by and ending at the last. For the example we can sort the last name of the actors in ascending order by clicking on the header until the sort arrow points up. To reorder the columns in the result simply drag the column to the desired location in the result. Since the column with the last names is before the one with the first names, grab the last name column's header and drag it after the first name column in the result. Finally, to rename columns any column name can be clicked on in the query pen and changed. For the example we can change the last name from "last_name" to "surname" by clicking the column in the Actor table and changing the text to "surname". Now the column's name has changed. In the table in the query pen the column's original name is shown in brackets to the right of the alias for the column.

Now that the query is complete, we can move to laying out the report. To generate a report based on the query, click the layout button to the right of the zoom slider at the top of the query pen.

Laying Out a Report

To add new report layouts to a workspace, right click the workspace tree and select "New Layout". Layouts created from queries come from a template that adds a header and footer to the results of the query. While the report layout only shows one page, the layout of this page will be repeated for each page required to print or export the entire query results.

Formatting the report header

Now that the report layout has been created, the layout can be modified before exporting or printing. The first thing to change from the default is the header. To modify the contents of any box in the layout, simply double click the box to show its properties window. The properties of any text box involve a simple text editor with font and alignment choices. After giving the header of the report a new value, press OK and the header on the report will change.

Formatting query results

Next the query results can be modified by double clicking it. The font for the results can be changed as well as the background colour. The null string that can be specified will be what is displayed if any cell of the result returns a null value. Borders can also be specified from a list of available options. Finally, each column can be modified individually. For this report, change the name of the first column to "First Name" and increase the space given to the first name column to spread out the results.

Adding an image

To make the report look nicer add an image to it by dragging one in from the workspace tree. To place the image in the report drag it to the desired location. If you drag the image near a guide, one of the dashed lines that make up the border, the image will snap to it. To remove a content box from a guide drag it away from the guide quickly. Guides can also be inserted into a report to help layout different components. Guides can be added by clicking on the horizontal or vertical guide button in the toolbar and then clicking on the report. Now that the report is finished it can be exported to a PDF file or printed from the toolbar.

Chapter 17. Server Configuration

When the Wabit Enterprise Edition is downloaded the server is contained in the "tomcat" directory. To start the server with its default settings navigate to the tomcat/bin directory and execute the startup.sh script for Mac or Linux or execute the startup.bat file for Windows. After a few minutes the server will be started and you will be able to connect to it with one of the Wabit clients that comes in the Enterprise Edition package. The default port used by Tomcat is 8080 and will have to be available for Tomcat to use to allow the server to start. If you do not wish to use the Tomcat instance that comes with the Enterprise Edition download the war file is at tomcat/webapps/wabit-enterprise.war.

Changing JDBC Drivers

The server's JDBC drivers are located at tomcat/webapps/wabit-enterprise/WEB-INF/classes/jdbc. These JDBC drivers will be used by the server to query databases and will also be used to respond to client requests for driver and database information. The location of the JDBC drivers is defined in the file at tomcat/webapps/wabit-enterprise/WEB-INF/web.xml under the parameter "jdbcDriverHome". The jdbcDriverHome can be changed to an absolute path pointing to a different folder that contains the JDBC drivers that will be used for the server.

Changing the Repository Location

When the server is first started it will create a Java Content Repository under the user's home directory. The repository will be in the directory "wabit-enterprise-repository" and will contain all of the workspaces on the server. The location of the repository can be changed in the web.xml file in the tomcat/webapps/wabit-enterprise/WEB-INF directory. The parameter "repositoryHome" points to the location of the repository and can be set to an absolute path of a different directory where the repository should be stored.

Defining an SMTP Service

To allow reports to be scheduled the mail.xml file must be configured to point to a correct SMTP service. The mail.xml file is located at tomcat/webapps/wabit-enterprise/WEB-INF/classes.

Field	**Meaning**
wabit.mail.sender	The address defined as the sender of the scheduled reports.
wabit.mail.reply	The address defined as the reply address of the scheduled reports.
wabit.smtp.host	The host name of the SMTP service.
mail.smtp.port	The port number on which the SMTP server is running. If not specified, port number 25 is used by default.
mail.transport.protocol	Specifies the default message access protocol.
mail.smtp.auth	If true, attempt to authenticate the user using the AUTH command. The default of this value is false.
wabit.smtp.username	The username to connect to the SMTP service with.
wabit.smtp.password	The password of the user used to connect to the SMTP service.
wabit.mail.report.subject	The subject of the e-mail that will be sent with the report.
wabit.mail.report.message	The body of the e-mail that will be sent with the report. The report itself will be sent as a PDF attachment.

Chapter 18. Appendices

Appendix A: GNU GPL Version 3

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GNU General Public License version 3

Version 3, 29 June 2007

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