

Dataview Module

The Database DataView Module for netbeans provides many new features for existing netbeans Database Explorer.

Besides many advanced features it provides following features:

- Sort results based on a column
- Edit data from a query and commit changes
- Edit option in result pane can be changed to non-edit, depending on the need.
- Display number of returned records
- Pagination, Option to set page size
- Copy selected records with/without HEADER detail
- Generate SQL script for CREATE, INSERT, UPDATE, DELETE statements from resultset data.
- New records can be INSERTED in the table using a graphical panel.
- Delete Selected rows
- Truncate the table
- Improved Tootips
- Ability to define matching filter and display the records based on the match.

Result Pane is associated with SQL Editor and for each SQL Editor a separate result pane will be displayed. All the features are described below in detail.

The screenshot shows a SQL Command Editor window with a connection to 'jdbc:mysql://localhost:3306/sakila [root on Default schema]'. The query 'select * from customer' is entered in the command pane. The results pane displays a table with 20 rows of customer data. The table has columns for row number, customer_id, store_id, first_name, last_name, email, address_id, active status, create_date, and last_update.

#	customer_id	store_id	first_name	last_name	email	address_id	active	create_date	last_update
1	1	1	MARY	SMITH	MARY.SMITH@sakilacustomer.org	5	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
2	2	1	PATRICIA	JOHNSON	PATRICIA.JOHNSON@sakilacustomer.org	6	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
3	3	1	LINDA	WILLIAMS	LINDA.WILLIAMS@sakilacustomer.org	7	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
4	4	2	BARBARA	JONES	BARBARA.JONES@sakilacustomer.org	8	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
5	5	1	ELIZABETH	BROWN	ELIZABETH.BROWN@sakilacustomer.org	9	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
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9	9	2	MARGARET	MOORE	MARGARET.MOORE@sakilacustomer.org	13	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
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20	20	2	SHARON	ROBINSON	SHARON.ROBINSON@sakilacustomer.org	24	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM

Full Screen View

The above figure shows full view of Database Explorer SQL Editor Panel, where SQL script can be run. Once query is executed, results are displayed in lower pane. Lower pane has many features which are shown with different descriptive icons. Hovering mouse over a particular icon, displays the descriptive name of the icon.

Most of the features are enabled when result set query is run and in other type of SQL script these features are disabled and only results of the script executed are displayed in output pane.

Records displayed above in Result Pane can be arranged /sorted in following order based on any column.

- As per the order records are inserted
- Ascending Order
- Descending Order

Commit Record(s):

When record(s) is updated, Using Commit icon, updated record(s) can be committed in database. This feature in Result Pane is enabled only when record is updated, by default it is in disabled state.

Cancel Edits:

This feature is used to undo the updated column value before commit. This is enabled when Commit Record(s) icon is enabled.

Truncate Table:

Used to truncate a table

Refresh Records:

Refresh the records from database in Result Pane

PAGINATION

Records can be displayed in multiple pages with user defined page size. So to facilitate navigation to different pages, following features are there in Result Pane pallet.

First Page:

Used to return to first page of the record displayed in result pane hence first page records are displayed here. If very first page is displayed, this icon is disabled.

Previous Page:

Used to return to previous page of currently displayed page, if very first page is displayed, this icon is disabled.

Next Page:

Used to display records in next page from displayed page, if the displayed page is the last page then this Next Page Icon is disabled.

Last Page:

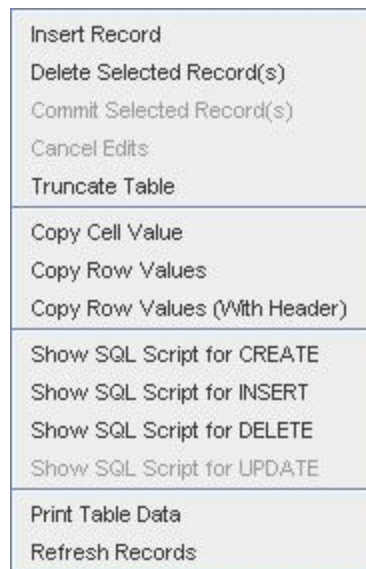
Used to move to last page of the records, if the displayed page is the last page then this Next Page Icon is disabled.

Page Size:

Page Size: Total Rows: 13 (Page 1 of 1)

Page size can be defined by user, depending on the page size number of pages is calculated and value is displayed in pallet like above. Here for 13 records page size 5 is selected so total number of pages are 3. It also displays records in result pane are from which page.

In Addition to new features some of the features explained above are also available when mouse is right clicked on any record, Figure shown below.



Following features from the above figure work as described above

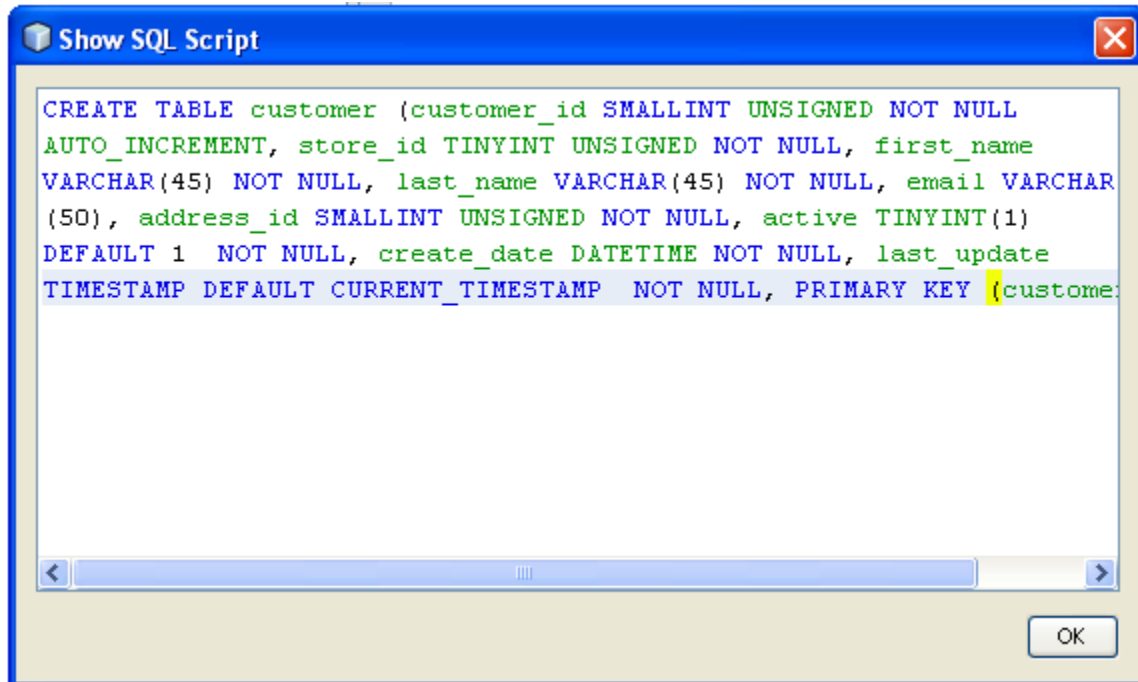
- Insert Record
- Delete Selected Record(s)
- Commit Selected Record(s)
- Cancel Edits
- Truncate Table
- Refresh Records

Copy Cell Value: Copy cell value of selected cell (column)

Copy Row Values: Copy values of selected rows

Copy Row Values (With Header): Copy values of selected rows with header name.

Show SQL Script for CREATE: Display SQL script to create table with the column definition of the selected table.



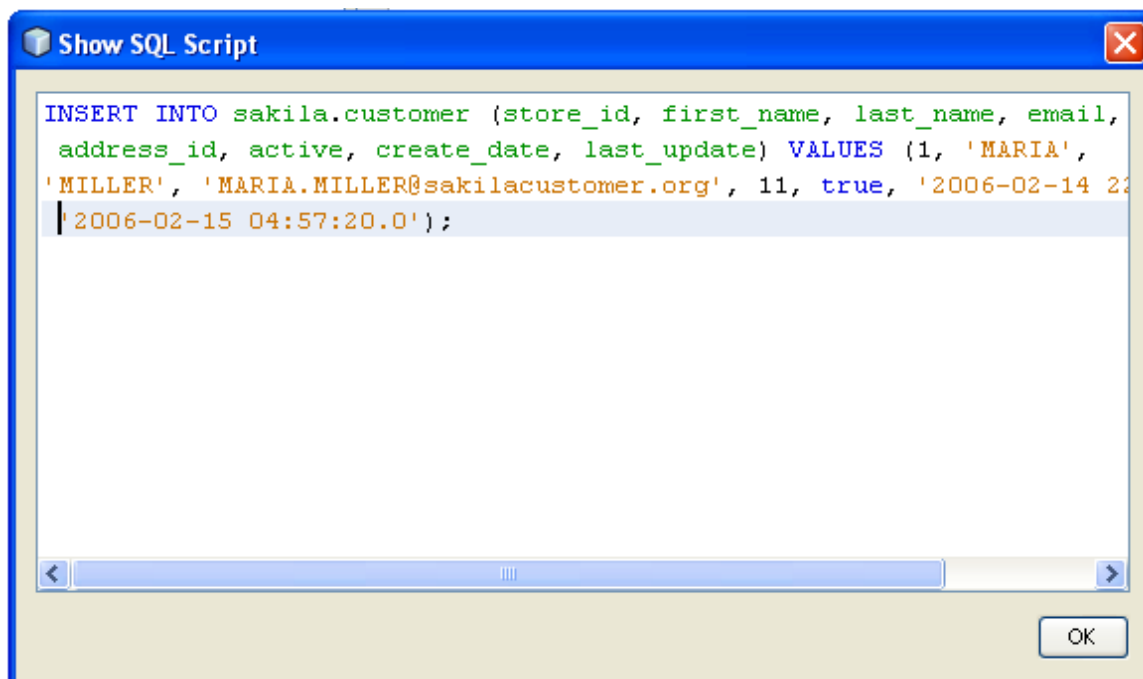
The screenshot shows a dialog box titled "Show SQL Script" with a close button in the top right corner. The main area contains the following SQL code:

```
CREATE TABLE customer (customer_id SMALLINT UNSIGNED NOT NULL
AUTO_INCREMENT, store_id TINYINT UNSIGNED NOT NULL, first_name
VARCHAR(45) NOT NULL, last_name VARCHAR(45) NOT NULL, email VARCHAR
(50), address_id SMALLINT UNSIGNED NOT NULL, active TINYINT(1)
DEFAULT 1 NOT NULL, create_date DATETIME NOT NULL, last_update
TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL, PRIMARY KEY (customer_id))
```

At the bottom right of the dialog box is an "OK" button.

Show SQL Script for INSERT: Display SQL script to INSERT values into table with value(s) of selected record(s).

Insert Record

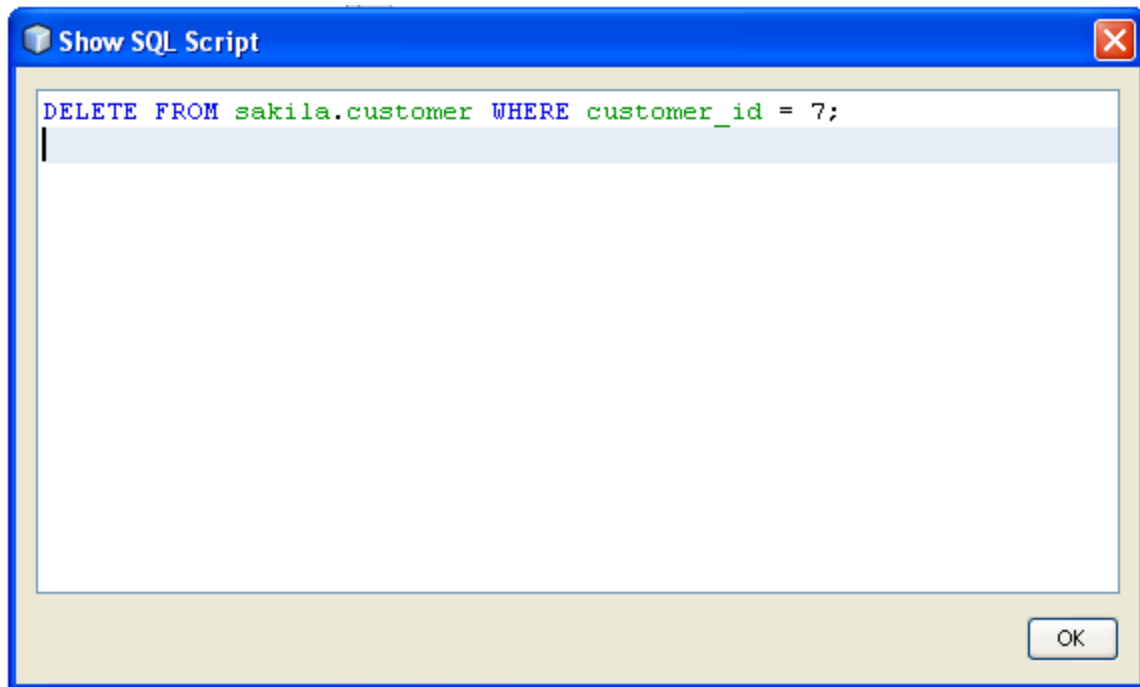


The screenshot shows a dialog box titled "Show SQL Script" with a close button in the top right corner. The main area contains the following SQL code:

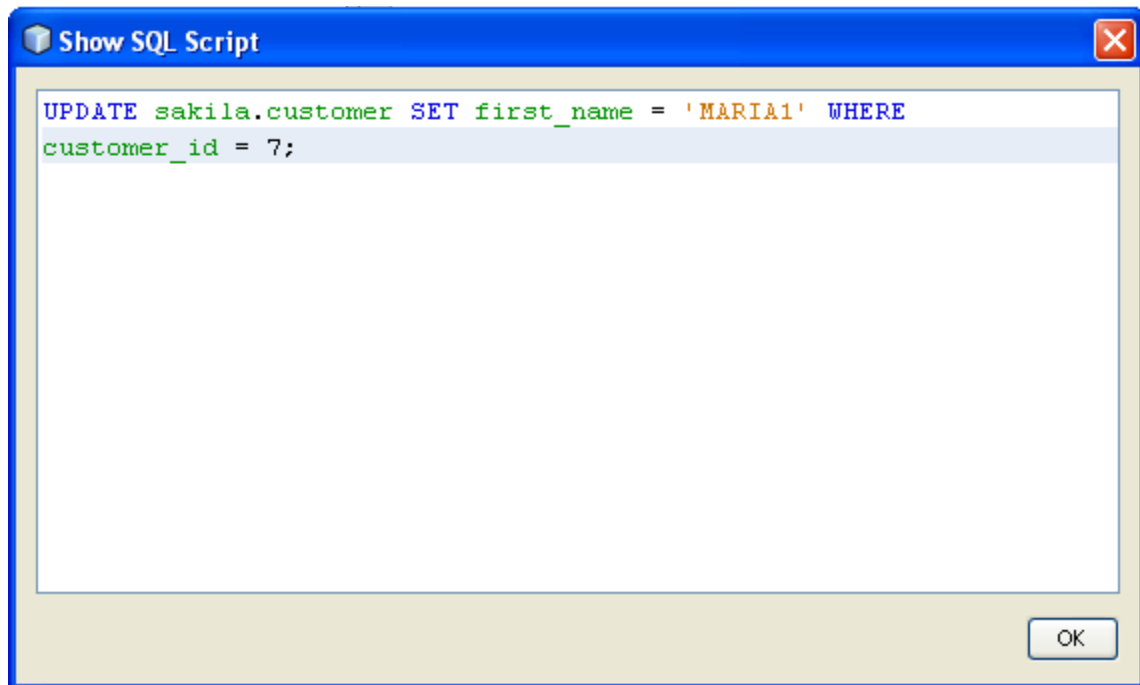
```
INSERT INTO sakila.customer (store_id, first_name, last_name, email,
address_id, active, create_date, last_update) VALUES (1, 'MARIA',
'MILLER', 'MARIA.MILLER@sakilacustomer.org', 11, true, '2006-02-14 22:00:00',
'2006-02-15 04:57:20.0');
```

At the bottom right of the dialog box is an "OK" button.

Show SQL Script for DELETE: Display SQL Script to DELETE for selected row.



Show SQL Script for UPDATE: Displays SQL Script for UPDATE. This is enabled only when records are modified. Modified cell turns green.



Print Table Data: Prints the table data with Header.

Recently added features:

- When the join query is run, results displayed in result pane will not be editable.
- Ability to to define visibility for a column/columns.

select * from customer x

Page Size: 20 Total Rows: 599 Page: 1 of 30

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Horizontal Scroll
Pack All Columns
Pack Selected Column

On the right top corner of result pane, one icon is provided which list total columns for a table in addition to few other options and then you have the option of making those columns visible or invisible. By default all columns are visible.

Lets deselect "email" column,

select * from customer x

Page Size: 20 Total Rows: 599 Page: 1 of 30

#	customer_id	store_id	first_name	last_name	address_id	active	create_date	last_update
1	Row Number	1	MARY	SMITH	5	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
2		2	PATRICIA	JOHNSON	6	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
3		3	LINDA	WILLIAMS	7	<input checked="" type="checkbox"/>	Feb 14, 2006 10:04:36 PM	Feb 15, 2006 4:57:20 AM
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customer_id
store_id
first_name
last_name
email
address_id
active
create_date
last_update

Horizontal Scroll
Pack All Columns
Pack Selected Column

"email" column has been deselected so this column doesn't appear in result pane as above.

- Row Number: Row number is generated in sequence like spreadsheet in result pane, shown above.
- Ability to define matching filter and results are displayed based on match: One box is provided on right top corner of result pane pallet, where text can be typed and based on the text, records are displayed in result pane.
- Set default value for updates: Option(CTRL+1) to set default values for column.
- Date/Datetime picker: For column of type date/datetime, When that column is updated or new record is to be inserted, just a mouse click on the right edge of that column box provides option to choose date from the picker.

select * from sakila.cust x

Page Size: 20 Total Rows: 599 Page: 1 of 30 Matching Rows:

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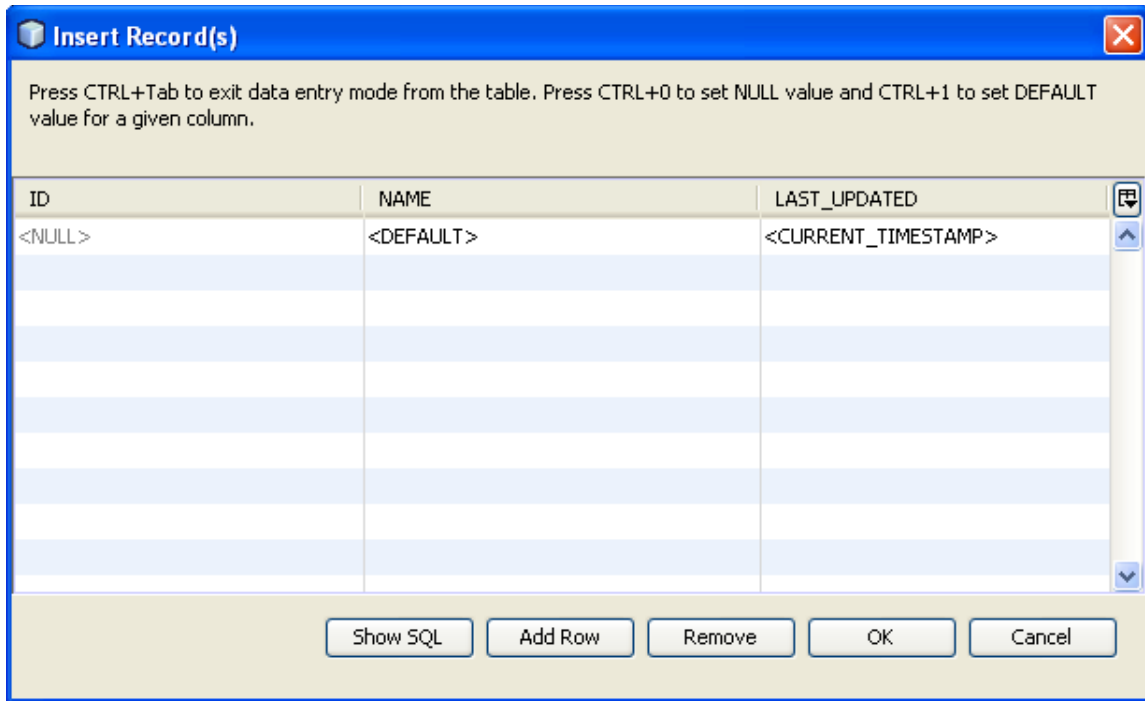
- Rollover high lighter: When mouse is rolled over records, record where mouse is hovered, will be highlighted
- Spreadsheet look n feel.
- Horizontal Scroll.
- Pack All Columns

Insert Record(s)

Insert Record option has many new feature, other than previous release.

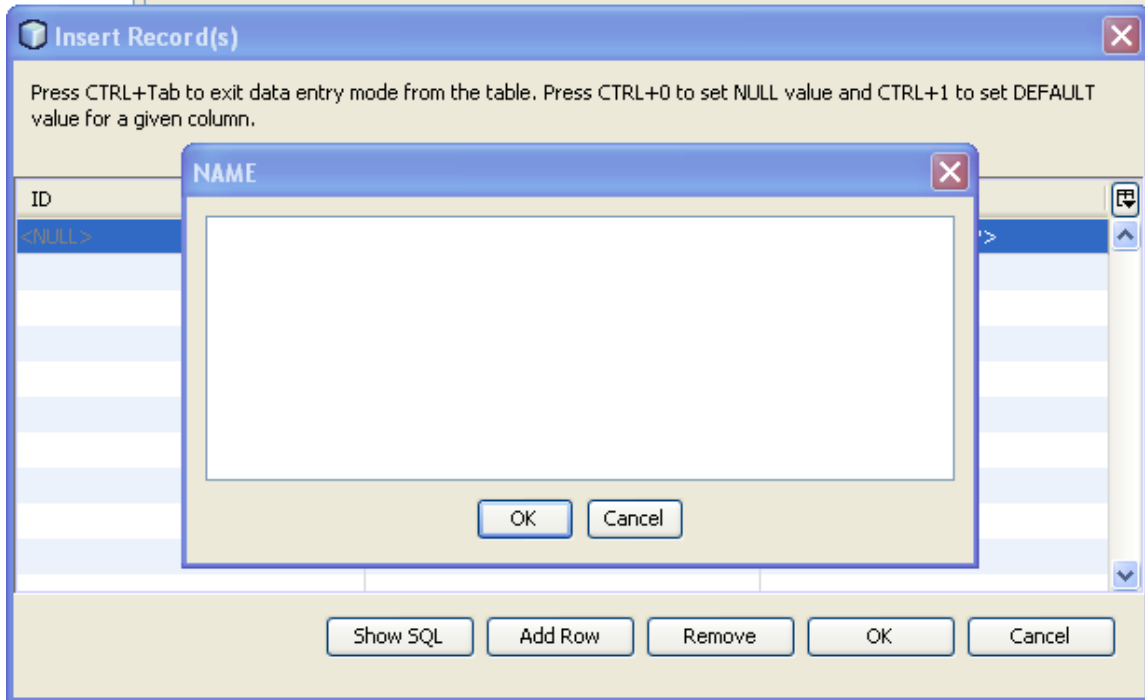
1. Feature Description

- Insert Record(s) dialog is used to insert multiple records at a single stretch.
- The user can Add or Remove a single row using + (Add) and - (Remove) from the keyboard respectively.
- This dialog can be resized.



2. Adding Record(s) with Insert Record(s) feature

- The user can add multiple rows by clicking Add Row button or by clicking a tab key.
- The user can add or delete multiple rows using standard I/O devices i.e. both keyboard and a mouse.
- The rows can be deleted by clicking Remove button or Ctrl+Del from the keyboard.
- All the rows can be selected using Ctrl+A.
- The auto increment fields will be shown as <GENERATED>, the columns with the default values as <DEFAULT>, for timestamp,date,time it will be as <CURRENT_TIMESTAMP>,<CURRENT_DATE>,<CURRENT_TIME> respectively.
- When you double click in the cell, you will be able edit the text in full-size text editor.



3. Committing the Added/Inserted Record(s)

- When the user presses OK button/Enter key, insertion of records will be attempted.
- Records will be inserted one row at a time and finally returns back the number of success and failures.

4. Querying the Inserted records

- "Show SQL" shows the SQL insert statements for the added rows.

5. Adding Records from a SpreadSheet

Records can be copied and pasted from a SpreadSheet to table and vice-versa as shown

Copy from spreadsheet

	A	B
1	Test1	Test1
2	Test2	Test2
3	TE	Default
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		

Paste into Insert wizard

Insert Record(s)
✕

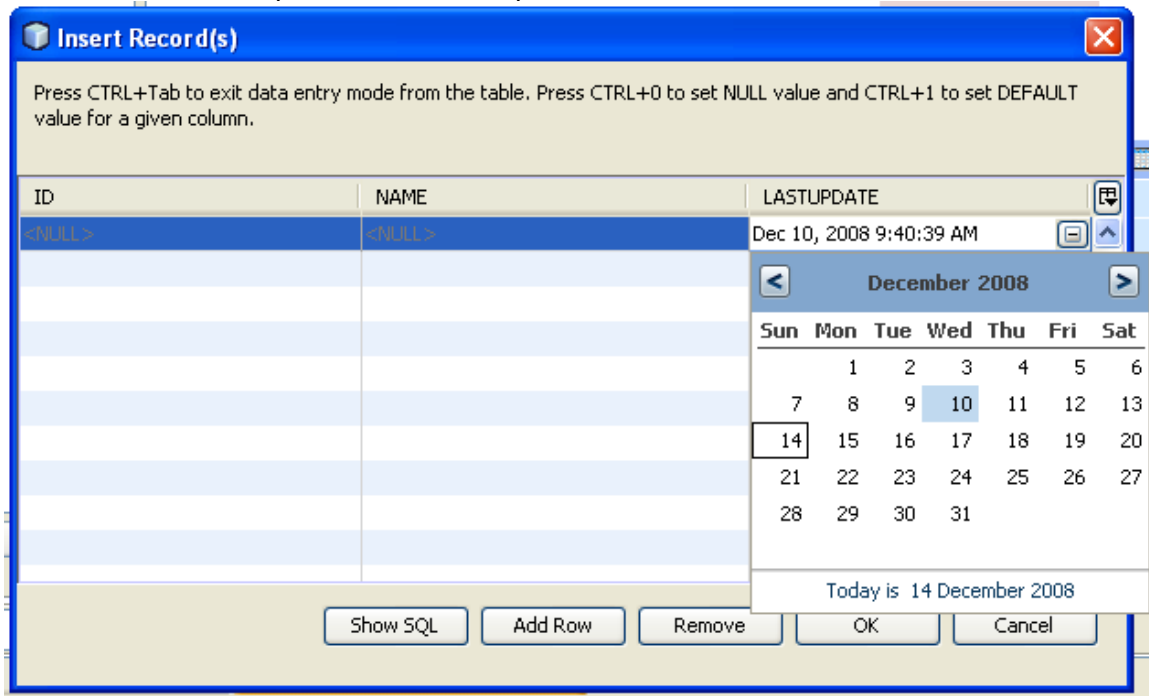
Press CTRL+Tab to exit data entry mode from the table. Press CTRL+0 to set NULL value and CTRL+1 to set DEFAULT value for a given column.

NAME	CITY
Test1	Test1
Test2	Test2
Test3	Test3

Show SQL
Add Row
Remove
OK
Cancel

6. Using the calendar for data/time columns.

There is an option of Calendar picker to edit date and time formats.



DataView API overview with example—to do