

Database Tool Window

View | Tool Windows | Database

The **Database** tool window is the main access point to functions for working with databases (DB [data sources](#)) and DDL data sources.

The available data sources are shown as a tree of data sources, tables and table columns. If no data sources are currently defined, use the [New](#) command (Alt+Insert) to create a data source.

Most of the functions in this window are accessed by means of the toolbar icons or context menu commands. (If the toolbar is not currently shown, click  on the title bar and select **Show Toolbar**.) Many of the commands have keyboard shortcuts. The [Synchronize](#) and [Console](#) commands can additionally be access by means of the title bar buttons ( and  respectively).

The set of available functions depends, first of all, on the [data source type](#) (DB or DDL). For DB data sources you can, for example:

- Create, modify and delete database tables, table columns, indexes, primary and foreign key constraints, etc. The following commands are provided for these purposes: [New](#), [Rename](#), [Modify Column](#), [Delete](#) and [Drop Associated](#) (e.g. **Drop Associated Primary Key**).
- Open the [Table Editor](#) to manipulate table data (the [Table Editor](#) command).
- Open the [database console](#) to run DDL and DML SQL statements (the [Console](#) command).
- Generate DDL definitions for databases and database tables. The corresponding definitions are generated on the clipboard by using the [Copy DDL](#) command, and then may be pasted into a file or the database console.
- Save table data in various "most popular" formats (the [Save to File](#) command).

Irrespective of the data source type (DB or DDL), you can also:

- Compare the data sources and tables (the [Compare](#) command).
- View UML class diagrams for data sources and tables (the [Diagrams](#) command).
- View basic information for data sources and their elements in a [quick documentation pop-up](#).
- Set and change colors for data sources, tables and columns (the [Color Settings](#) command).

 on the title bar provides access to view options.

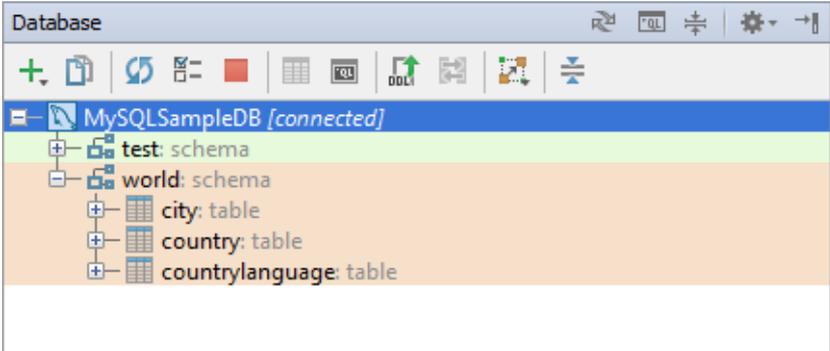
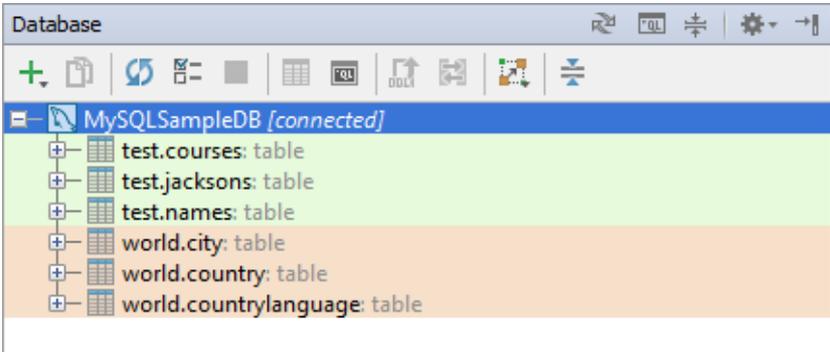
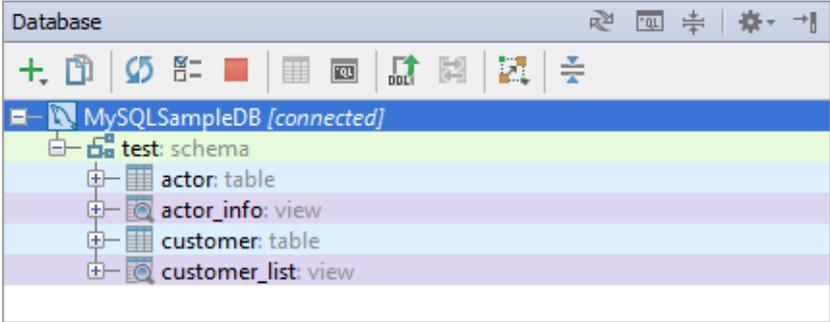
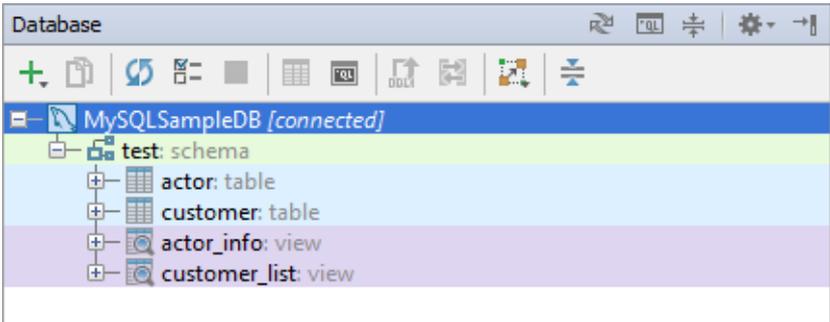
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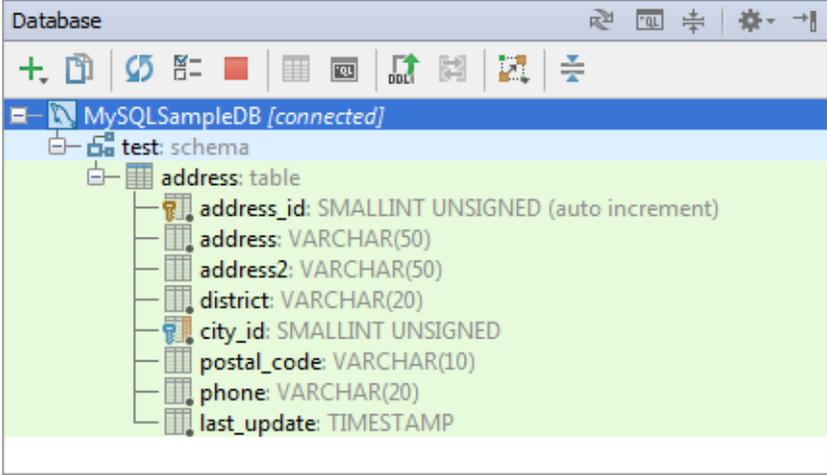
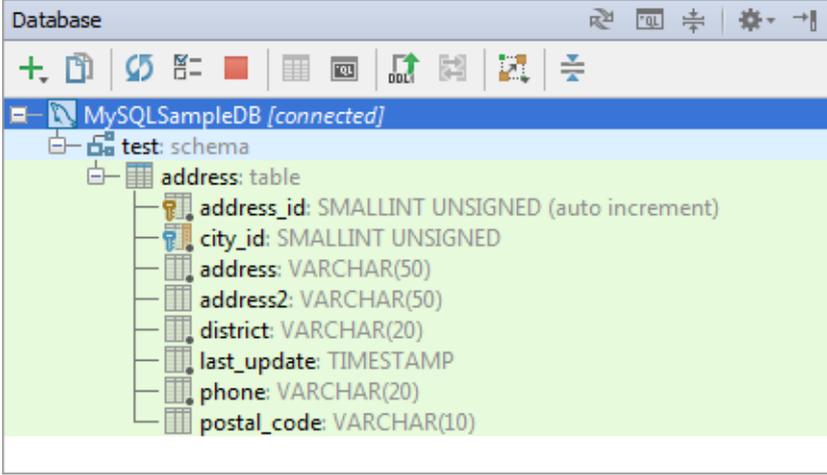
- [View options](#)
- [Toolbar icons, context menu commands and shortcuts](#)
- [Icons for data sources and their elements](#)

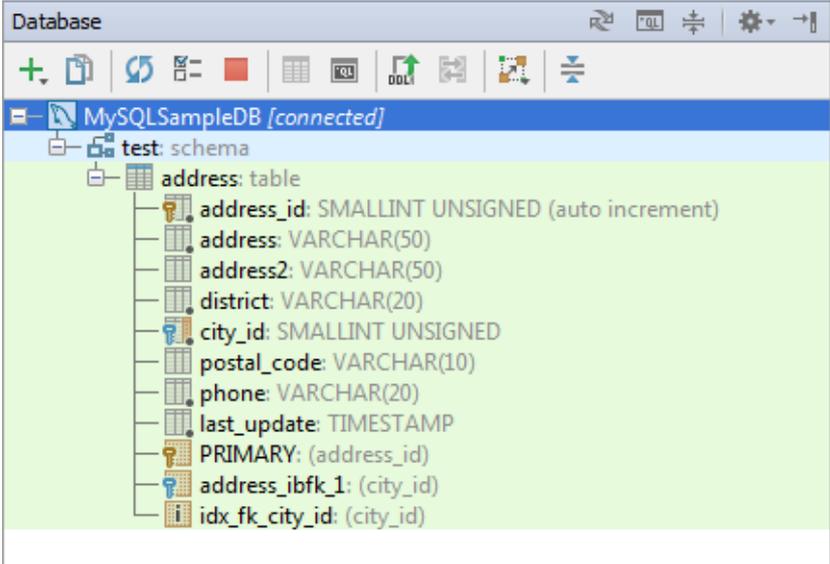
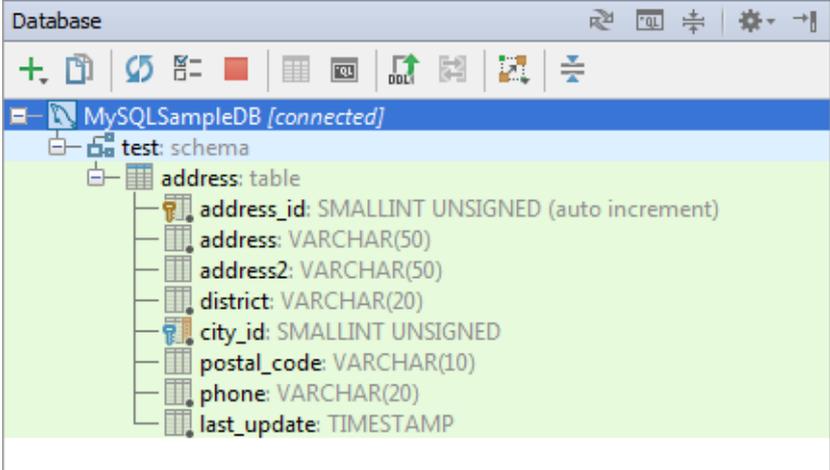
View options

The view options, generally, define what is shown in the tool window and how. To view or change these options, click  on the title bar.

Option	Description
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Option	Description
<p>Flatten schemas</p>	<p>This option defines how schemas are shown.</p> <p>When off, there is a separate node for each of the schemas.</p>  <p>When on, the schemas themselves are not shown; the schema names appear as prefixes of the table names.</p> 
<p>Group Tables by Type</p>	<p>When this option is off, all the tables are ordered alphabetically by their names.</p>  <p>When this option is on, the tables are grouped. The group of base tables (tables) is shown first. After the base tables, virtual tables (views) are shown. Within the groups, the tables are ordered alphabetically.</p> 

Option	Description
Sort Columns	<p>When this option is off, the columns, generally, are unsorted.</p>  <p>When this option is on, the columns are ordered like this: the columns with a primary key, then the columns with a foreign key, and then the rest of the columns. Within the groups, the columns are ordered alphabetically.</p> 

Option	Description
Show Table Constraints	<p>When this option is on, the public and foreign key constraints, and indexes are shown.</p>  <p>Otherwise, the constraints are not shown.</p> 
Show Toolbar	Select or deselect this option to show or hide the toolbar.

The rest of the options are common for all the tool windows, see [Viewing Modes](#).

Toolbar icons, context menu commands and shortcuts

Icon	Command	Shortcut	Description	Available for
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Icon	Command	Shortcut	Description	Available for
+	New	Alt+Insert	<p>Use this icon, command or shortcut to create a new data source, table, column, index, or primary or foreign key. The list of options depends on which element is currently selected. You can choose:</p> <ul style="list-style-type: none"> ■  Android SQLite to create a data source for an SQLite database located on an Android device or emulator. Specify the settings for the new data source in the Data Sources and Drivers dialog. <p>For this option to be available, there must be an Android application module in your project and/or an Android SDK has to be defined in IntelliJ IDEA.</p>	DB data sources and their elements (tables and table columns). If a DDL data source is selected, you can only choose to create another data source.

Icon	Command	Shortcut	Description	Available for
			<ul style="list-style-type: none"> <li> Data Source create a new DB data source. Select the DBMS and specify the settings for the new data source in the Data Sources and Drivers dialog. <li> DDL Data Source to create a new DDL data source. Specify the settings for the new data source in the Data Sources and Drivers dialog. 	

Icon	Command	Shortcut	 Import Description sources to	Available for
			<p>create one or more DB data sources by importing the corresponding XML configuration files (hibernate, JPA, etc.). This way of creating DB data sources is convenient when you have database connection settings (the database URL, driver class, user name and password) specified in the configuration files.</p> <p>IntelliJ IDEA will scan your project and, if the appropriate configuration files are found, the Data Sources and Drivers dialog will open.</p> <p>The names of candidate data sources will be shown in green in the left-hand pane under Data Sources.</p> <p>See also, Importing a DB data source.</p>	

Icon	Command	Shortcut	Description	Available for
			<ul style="list-style-type: none"> ■  Table to create a new table for a selected DB data source. ■  Column to create a column in the selected table. ■  Index to create an index on the selected column or columns. ■  Primary Key to define a primary key constraint on the selected column or columns. ■  Foreign Key to define a foreign key constraint on the selected column or columns. 	

Icon	Command	Shortcut	Description	Available for
	Disconnect		<p>Use this icon or command to close the database connection for the selected DB data source or data sources. (Data sources with active database connections have the text <i>[connected]</i> to the right of their names.)</p> <p>See also, Database connections.</p>	DB data sources with active connections and their elements

Icon	Command	Shortcut	Description	Available for
	Drop Associated		<p>Use this command to remove constraints such as a primary key or a foreign key constraint. Choose:</p> <ul style="list-style-type: none"> ■  Primary Key to remove the corresponding primary key constraint. The command is available for a table or any of its columns if the table has a primary key. ■  Foreign Key to remove the corresponding foreign key constraint. The command is available only for a column or columns on which a foreign key constraint is defined. 	Tables and table columns in DB data sources
	Rename	Shift+F6	Use this command or shortcut to rename the selected data source, table or table column. Specify the new name in the dialog that opens.	All node types

Icon	Command	Shortcut	Description	Available for
	Duplicate	Ctrl+D	Use this icon, command or shortcut to create a copy of the selected data source. Specify the properties of the data source in the Data Sources and Drivers dialog that opens. See Data Sources and Drivers dialog .	DB and DDL data source nodes
	Modify Column	Ctrl+F6	Use this command or shortcut to edit the properties of the selected column.	Table columns in DB data sources
	Copy Reference	Ctrl+Shift+Alt+C	Use this command or shortcut to copy the fully qualified name of the selected data source, table or table column to the clipboard.	All node types
	Delete	Delete	Use this command or shortcut to delete the selected data source, table or table column.	All node types
	Find Usages	Alt+F7	Use this command or shortcut to find the usages of (references to) the selected item (data source, table or table column) in the project source files and libraries.	All node types

Icon	Command	Shortcut	Description	Available for
	Compare	Ctrl+D	Select two data sources or tables and then use this icon, command or shortcut to compare the selected items. The differences are shown in Differences Viewer for Folders and DB Objects .	DB and DDL data sources and tables
	Table Editor	F4	Use this icon, command or shortcut to open the selected database table in the Table Editor . See also, Working with the Table Editor .	Tables and table columns in DB data sources
	View Editor, Function Editor, Procedure Editor or Package Editor	F4	Use this icon, command or shortcut to open the definition of the selected view, function, procedure or package in the editor.	Corresponding elements in DB data sources
	Edit Source	F4	Use this icon, command or shortcut to open the associated DDL file in the editor.	Tables and table columns in DDL data sources
	Console	Ctrl+Shift+F10	Use this icon, command or shortcut to open the database console for the corresponding DB data source. As a result, you'll be able to run DDL and DML SQL statements to manipulate data structures and data.	DB data sources and their elements (tables and table columns)

Icon	Command	Shortcut	Description	Available for
	Synchronize	Ctrl+Alt+Y	<p>Use this icon, command or shortcut to update the view of the selected element (i.e. to synchronize the view of the element with its actual state in the database).</p> <p>Note that you can enable auto-synchronization for a DB data source by turning on the Auto sync option in the Data Sources and Drivers dialog.</p>	DB data sources and their elements (tables and table columns)
	Properties	DatabaseView.PropertiesAction	<p>Use this icon, command or shortcut to view or edit the properties of the selected data source in the Data Sources and Drivers dialog. See Data Sources and Drivers dialog.</p>	DB and DDL data source nodes
	Copy DDL	Ctrl+Shift+C	<p>Use this icon, command or shortcut to copy a DDL definition of the selected data source, table or table column onto the clipboard.</p>	All node types

Icon	Command	Shortcut	Description	Available for
	Save to File		Use this command to save the selected table in a file, or to view or edit the output format settings. Select the resulting format or Configure Extractors . In the latter case, the Data Extractors dialog will open and you'll be able to edit the settings for existing formats, and create new output formats.	Tables in DB data sources
	Color Settings		Use this command if you want to set or change the color for the selected element or elements. (The Database Color Settings dialog will open.)	All node types
	Diagrams	Ctrl+Shift+Alt+U Ctrl+Alt+U	Use this icon, command or shortcut to see a UML class diagram for the selected data source or table. Select: <ul style="list-style-type: none"> ■ Show Visualisation to open the diagram on a separate editor tab. ■ Show Visualisation Popup to see the diagram in a pop-up window. 	DB and DDL data sources and tables

Icon	Command	Shortcut	Description	Available for
			Use this icon to collapse all the nodes. As a result, only your data sources will be shown (i. e. the topmost hierarchy level). Alternatively,  on the title bar can be used.	All node types
		Ctrl+Q or Alt+Button2 Click	Use this key combination to see basic information for the selected element. The information shown depends on the element type. For example, the following is shown for a table: the names of the data source, catalog, schema and the table itself. Also shown is the corresponding CREATE TABLE DDL statement and, if appropriate, the first 10 table rows. To close the documentation pop-up, press Escape.	All node types

Icons for data sources and their elements

Icon	Description
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Icon	Description
	DB data source. Also, DBMS-specific icons are used:  DB2   Derby   H2   HSQLDB   MySQL   ODBC   Oracle   PostgreSQL   SQL Server   SQLite   Sybase 
	DB data source with the read-only status, e.g.  for DB2.
	DDL data source
	Schema
	Table
	Column
	A NOT NULL column
	Column with a primary key
	Column with a foreign key
	Column with an index
	Primary key
	Foreign key
	Index
	View
	Stored procedure or function

See Also

Language and Framework-Specific Guidelines:

- [Data Sources](#)

Getting Started:

- [IntelliJ IDEA Tool Windows](#)

Web Resources:

- [Developer Community](#) 