

Creating and Importing Data Sources

You can create a data source of the required [type](#) from scratch or by importing the configuration files that contain the necessary database definitions (e.g. connection settings).


IntelliJ IDEA recognizes Spring, Hibernate, JPA and Tomcat (`context.xml`) configuration files. If the corresponding files have been developed externally, you must add them to your project prior to performing the import.

DDL data sources and DB data sources for H2 and SQLite can be created by means of drag and drop.

- [Importing a DB data source](#)
- [Creating a DDL data source by means of drag and drop](#)
- [Creating a DB data source for H2 or SQLite by means of drag and drop](#)
- [Creating a DB or DDL data source from scratch](#)

To import a DB data source

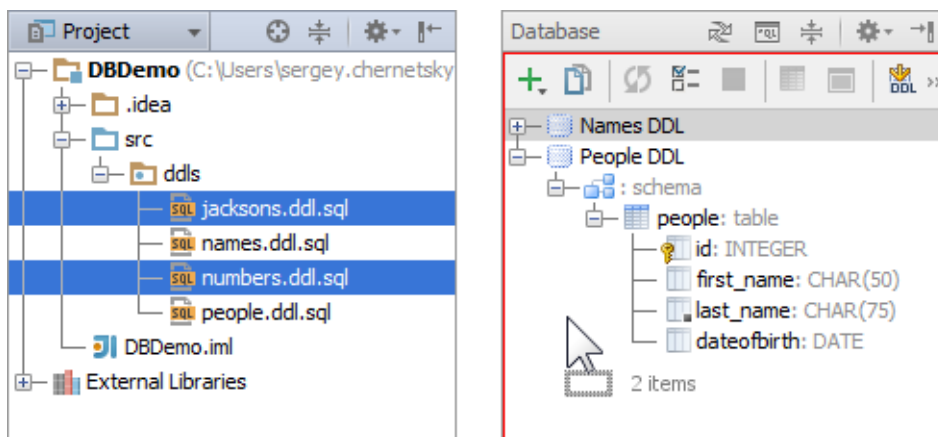
1. [Open the Database tool window](#).
2. Do one of the following:
 - Click **+** on the toolbar and select **Import from sources**.
 - Right-click the area under the toolbar or any of the existing data sources, point to **New** and click **Import from sources**.
 - Press **Alt+Insert** and select **Import from sources**.
3. The **Data Sources and Drivers** dialog opens. The names of candidate data sources are shown in the left-hand pane under **Data Sources** in green. The names of the configuration files in which database connection settings were found are shown in square brackets. The data source settings are shown in the right-hand part of the dialog.

Edit the data source settings as necessary. Download the database driver files if they are missing.
4. Click **Test Connection** to make sure that IntelliJ IDEA can properly communicate with the database.
5. In the **Connection successful** message box, click **OK**.
6. Click **OK** in the **Data Sources and Drivers** dialog.
7. In the **Database** tool window, click  on the toolbar. (Alternatively, select **Synchronize** from the context menu, or press **Ctrl+Alt+Y**.)

To create a DDL data source by means of drag and drop

You can create DDL data sources by dragging DDL SQL files to the **Database** tool window. The files can be dragged from the **Project** tool window, or from your file manager (e.g. Explorer or Finder).

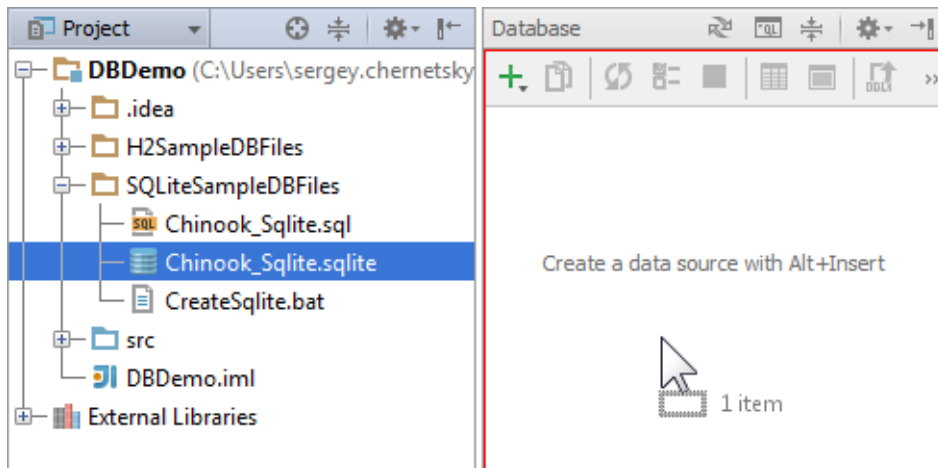
1. If the necessary DDL SQL files are in your project folder, open the **Project** tool window (e.g. Alt+1). Otherwise, open your file manager.
2. Open the **Database** tool window.
3. If you already have one or more DDL data sources defined but there are no DB data sources, expand one of the data source nodes in the **Database** tool window.
4. Select the file or files of interest in the **Project** tool window, or in your file manager.
5. Drag the selected file or files into the **Database** tool window. For a new data source to be created, the red border, when dropping the file or files, should surround most of the window area (rather than one of the existing data sources).





To create a DB data source for H2 or SQLite by means of drag and drop



If you have H2 or SQLite database files available locally, you can create DB data sources for them by dragging the files to the **Database** tool window. The files can be dragged from the **Project** tool window, or from your file manager (e.g. Explorer or Finder).

1. If the database files are in your project folder, open the **Project** tool window (e.g. Alt+1). Otherwise, open your file manager.
2. Open the [Database tool window](#).
3. Select the file or files of interest in the **Project** tool window, or in your file manager.
4. Drag the selected file or files into the **Database** tool window. (For each of the files a separate data source will be created.)



5. If you don't have the necessary database driver files yet, you can download them now. Click  on the toolbar of the **Database** tool window. (Alternatively, select **Properties** from the context menu, or press F4.)
6. In the lower part of the **Data Sources and Drivers** dialog that opens, within the line that starts with **Driver files missing**, click the **Download** link.
7. Click **Test Connection** to make sure that IntelliJ IDEA can properly communicate with the database.
8. In the **Connection successful** message box, click **OK**.
9. Click **OK** in the **Data Sources and Drivers** dialog.
10. In the **Database** tool window, click  on the toolbar. (Alternatively, select **Synchronize** from the context menu, or press Ctrl+Alt+Y.)

To create a DB or DDL data source from scratch

1. Open the [Database tool window](#).
2. Do one of the following:
 - Click **+** on the toolbar.
 - Right-click the area under the toolbar or any of the existing data sources, and select **New**.
 - Press Alt+Insert.
3. Select:
 -  **Data Source** to create a **DB data source**. Configure your new **DB data source** in the [Data Sources and Drivers](#) dialog.
 -  **DDL Data Source** to create a **DDL data source**. Configure your new **DDL data source** in the [Data Sources and Drivers](#) dialog.

See Also

Concepts:

- [Library](#)
- [Data Sources](#)

Procedures:

- [Manipulating the Tool Windows](#)
- [Configuring Third-Party Tools](#)

Reference:

- [Database Tool Window](#)
- [Data Sources and Drivers dialog](#)
- [File Encodings](#)
- [External Tools](#)

Web Resources:

- [Developer Community](#) 