

# Configuring a DB Data Source

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Configuring a DB data source involves the following general activities:

- [Specifying general DB data source settings](#)
- [Specifying JDBC driver files and class](#)
- [Specifying the database access settings](#)
- [Testing the connection with the database](#)
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## To specify general DB data source settings

1. Open the [Data Sources and Drivers dialog](#) by doing one of the following:
  - [Start creating](#) a new DB data source.
  - In the [Database tool window](#), select the desired DB data source and select **Properties** in the context menu.
2. Specify the name of the data source.
3. Specify the data source scope (level). From the **Scope** list, select:
  - **Project** if the data source should be available only in the current project.
  - **IDE** if the data source should be available in all of your projects.

## To specify JDBC driver files and class

1. On the **Database** tab of the [Data Sources and Drivers dialog](#), use the controls under **JDBC driver files** to specify the [JDBC driver](#) files to be used:
  - To download the necessary driver files from the Internet, or to use the driver files associated with a different data source, select the corresponding option from the list.
  - If the corresponding driver files are available locally on your computer, click  (Shift+Enter) and select the driver file location(s) in the [dialog that opens](#).
2. From the **JDBC driver class** list, select the necessary driver implementation class. (The list includes all the driver classes detected in the specified driver files.)

## To specify the database access settings

On the **Database** tab of the [Data Sources and Drivers dialog](#):

1. In the **Database URL** field, specify the database URL.
2. In the **User** and **Password** fields, specify your database access credentials.
3. If, to access the database, you are going to use SSH, click **Configure SSH** and specify the associated settings in the [Configure SSH Tunnel dialog](#) that opens.

## To test the connection with the database

- To make sure that the database connection settings are correct and IntelliJ IDEA can communicate with the target database, click the **Test Connection** button.

For IntelliJ IDEA to establish the connection with the database, the corresponding database server must be up and running.

## To download the database tables

If you turn the [Auto sync option](#) on, the database tables will be automatically downloaded when you click **OK** in the **Data Sources and Drivers** dialog.

Otherwise, to download the tables, you'll have to use the [Synchronize command](#) in the **Database** tool window.

## To get access to specific tables

1. Open the **Schemas & Tables** tab of the [Data Sources and Drivers](#) dialog box.
2. Do one of the following:
  - If the target database supports [schemas](#), select the **Scan for Tables** check box next to the relevant schemas.

To have IntelliJ IDEA resolve the names of the tables accessed through a schema so you do not need to write their fully qualified names, select the **Make Default** check box next to the relevant schema.

- Specify the pattern of table names to retrieve the matching tables only.

## To configure the behaviour of the Database Console

1. Open the **Console** tab of the [Data Sources and Drivers](#) dialog box.
2. Specify the *SQL dialect* to be used by default. Based on this setting, IntelliJ IDEA provides you with code assistance in the [Database Console](#) tool window.
3. Specify the [run configuration](#) to launch the **Database Console** tool window.

## To view and edit advanced connection properties

- In the **Advanced** tab of the [Data Sources and Drivers](#) dialog box, update the contents of the **Value** text box next to the names of the relevant connection properties.

## See Also

Language and Framework-Specific Guidelines:

- [Data Sources](#)

Reference:

- [Database Tool Window](#)
- [Data Sources and Drivers dialog](#)

Web Resources:

- [Developer Community](#)