Using Hibernate Console
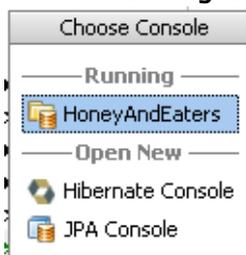
IntelliJ IDEA provides HQL support and enables creating queries in the Hibernate Console dedicated tool window. The console is started using the run configuration of the type *Query Language Console*.

You can have several instances of the Hibernate console running simultaneously. Each console is opened in a separate tab of the tool window. Each tab shows the name of the session factory from which the console is launched.

In the Hibernate console, you can explore the data sources configured in your workspace, create and run queries, and generate DDL or SQL scripts based on HQL commands. The console is aware of the HQL syntax and provides coding assistance.
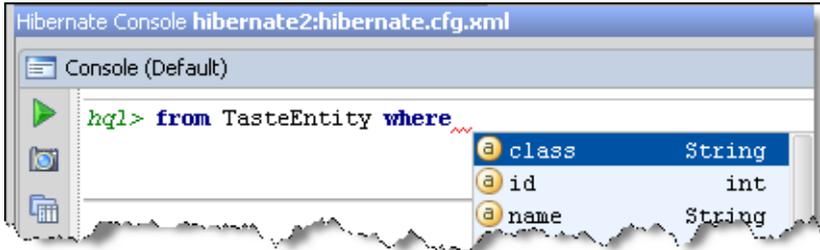
To launch the hibernate console

1. In the Persistence tool window, expand the Hibernate Facets node and select the desired session factory.

2. On the context menu, choose **Open Query Console** or click 🔲.

3. In the **Choose Console** pop-up window, do one of the following:

   ▪ To launch a console, choose **Hibernate Console** from the **Open New** list.

   ▪ To open an already running HQL console, choose the name of the desired console from the **Running** list.

To execute queries from the hibernate console, perform the following general steps

- Type the desired commands in the upper section of the console. Note syntax and error highlighting, code completion, intention actions, and quick fixes.

- To start a new line, press `Enter`.

- Use the basic and advanced editor shortcuts. In particular, you can *jump to declaration* of a table or its column in the corresponding Java class, if you place the caret at the table or column name, and press `Ctrl+B`, `Ctrl+Button1 Click` or `Button2 Click`. Alternatively, keep the `Ctrl` key pressed, and hover your mouse pointer over the reference to a table or column. So doing the reference turns to a hyperlink, which allows you to jump to the declaration in the source code:

- To run the commands, click the ▶ button on the toolbar or press `Ctrl+Enter`.

- View the query execution result in the **Result** tab.

- View and analyze information messages and query execution details in the **Output** tab.

To generate scripts, perform the following general steps

- To have IntelliJ IDEA generate an SQL script from a HQL command, type the query and click the **Generate SQL** toolbar button ⬛.

- To have a DDL script generated based on the Hibernate configuration for which the console has been launched, click the **Generate DDL** toolbar button ⬛.