

JDBC

1. Make a new Java project, create a “lib” folder, and copy the JAR files from my sample JDBC project. Set the CLASSPATH as described in the notes (R-click on project. Then Properties > Java Build Path > Libraries > Add JARs). Copy my code (EmbeddedDbCreator) that creates the employees table. Run it. Verify that you get reasonable output in the Console. You now have an Apache Derby database and are ready to query against it.

Alternative: don't even bother making a new project. Just put your code in my “jdbc-desktop” project. That project already has the right JAR file, already has the right CLASSPATH, and already has a simple database (myDatabase) with a simple table (employees). You should still write the code to *query* against the database, but don't need to do anything to set up or create the database.

2. Make a simple (non-graphical) program that prints the last names of all employees.
3. Make a simple program that computes the the sum of the salaries of all employees.
4. Make a graphical program with a textfield, button, and text area. The textfield should collect a last name. When the user presses the button, query the database. If there is an employee with that last name, show full details on him or her (just show the first employee if there are multiple people with the same name). If there is no employee with that last name, say so.