Chapter 24

Accessing Databases with JDBC

Names

Description

The purpose of this application is to create a simple user interface on top of a relational database. The database you should use is the Java DB (Derby) database. Setup of the Java DB (Derby) database is covered in section 24.5. The user interface will allow a user to insert, delete, and update names from a table in the database.

**Note**: For more information on the Java DB (Derby) database, visit that project’s website at <https://db.apache.org/derby/>. From this website you can download Derby – getting the JDBC driver JAR file, derby.jar, you need to create and connect to a Java DB (Derby) database – and have full access to the Derby manual which has information on creating databases, tables, and running INSERT, UPDATE, SELECT, and DELETE SQL statements.)

The database table will look like this:

|  |  |  |
| --- | --- | --- |
| **ID** | **FIRST\_NAME** | **LAST\_NAME** |
| 1452962065165 | Rita | Red |
| 1452962067770 | Oscar | Orange |
| 1452962070010 | Yet |  |

The ID value is generated by the application automatically. An easy way to generate this value is to use System.currentTimeMillis();. The first name (required) and last name (optional) are entered by the user.

Watch a demonstration of the application:  
  
<https://youtu.be/K6_d5Of6GxY>

General Requirements

Your application must follow these general requirements

* All classes must be in a package following these rules:
  + The package name is your last name plus the first letter of your first name. For example, if you name is Rita Red, her package is “red.r”
  + Package names are all lowercase letters
* All *class* names must start with an UPPERCASE letter then camel-cased after that.
* All *property* names must start with a lowercase letter then came-cased after that.
* All *method* names must start with a lowercase letter then came-cased after that.
* Output must match the examples. Watch out for spaces and punctuation.

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***NOTE***: If the code does not compile, it’s an automatic 0!

