

Wes Barr

Advanced Computer Programming

Project 1

User's Manual

Setup and Compilation

1. Download and unzip the submission from eLearning.
2. The submission will include:

TestDB.java

Database.java

Log.java

Vehicle.java

SimpleDataSource.java

Derby.jar

Vehicles.dat

database.properties

UML Diagram for Project (Diagram1.dia)

THIS User's Manual

A batch file labeled R1 from original TestDB.zip

3. Environment: This program has been tested and developed using NetBeans 8.0.2 IDE for Windows.
4. Compiling: Import this project into your IDE of choice. Hopefully, NetBeans. The program will run correctly in this IDE.

RUNNING THE PROGRAM. The submission comes with the Derby.jar file. You will need to setup your classpath to read this derby.jar file. **CRITICAL STEP.** If you do not comply with this you will get errors and the database will not be able to open.

Note: if you run this program through cmd prompt then put it in your IDE it will throw many classpath errors.

USER input: no user input is required from the program. **Output:** All output goes to the console. Output will be similar to this:

The screenshot displays an IDE interface for a Java project named 'proj1'. The left sidebar shows the project structure with 'Source Packages' containing 'proj1' and its files: 'Database.java', 'Log.java', 'SimpleDataSource.java', 'TestDB.java', and 'Vehicle.java'. Below this, 'Test Packages', 'Libraries', and 'Test Libraries' are listed. The 'TestDB' package is selected, showing a 'main(String[] args)' method. The right pane shows the 'Output - proj1 (run)' window, which contains the following text:

```

run:
Items have been inserted into Table

-----ALL-----
Nissan          compact          1862.74 3.84 true
Chevy           fullSized        2948.77 2.93 false
Hyundai         compact          1967.01 4.17 true
Nissan           intermediate     2414.27 5.67 true
Ford            compact          1705.05 5.76 false
Ford            compact          1739.71 4.83 false
Ford            fullSized        3049.90 3.23 false
Hyundai         intermediate     2144.02 5.76 true
Chevy           compact          1726.55 1.89 false
Ford            fullSized        3518.96 2.24 false
-----Chevy & Toyota-----
Chevy           fullSized        2948.77 2.93 false
Chevy           compact          1726.55 1.89 false
-----Heavy Hitters-----
Chevy           fullSized        2948.77 2.93 false
Ford            fullSized        3049.90 3.23 false
Ford            fullSized        3518.96 2.24 false
BUILD SUCCESSFUL (total time: 1 second)

```

After the program has run a Vehicles.dat file and dbOperations file will be created. dbOperations will show you the exact SQL commands that were executed in the program. It will show you the successful and unsuccessful attempts.