

ITMD 411
Mini Project 4
SPRING 2013

SUBMITTED BY
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Project Description

The aim of the project is to design a Java Project that connects to the Database using JDBC connected to a MYSQL Database.

The user is presented with a Selection Menu where he can choose any of the CRUD operations.

Design of the Project

The project MP4 consists of 3 packages

Domain:

Consists of the following classes:

- Record.java – This is the class file reflecting the Database Table ‘Employees’. Every variable corresponds to a database column.

Driver:

Consists of the main class within the class **MP4.java**

Utilities:

JDBCUtilities.java: has methods for executing the CRUD functions. It also has a method for Connecting to the Database

UtilityFunctions.java: This has functions for displaying the User Menu and Getting the User selection.

writeToFile: This function is to write all the output and input statements into a text file.

This function creates a new output file in the docs folder and is used to append all relevant input and output statements into it.

Installation and compile time Requirements

- OS – Windows 7

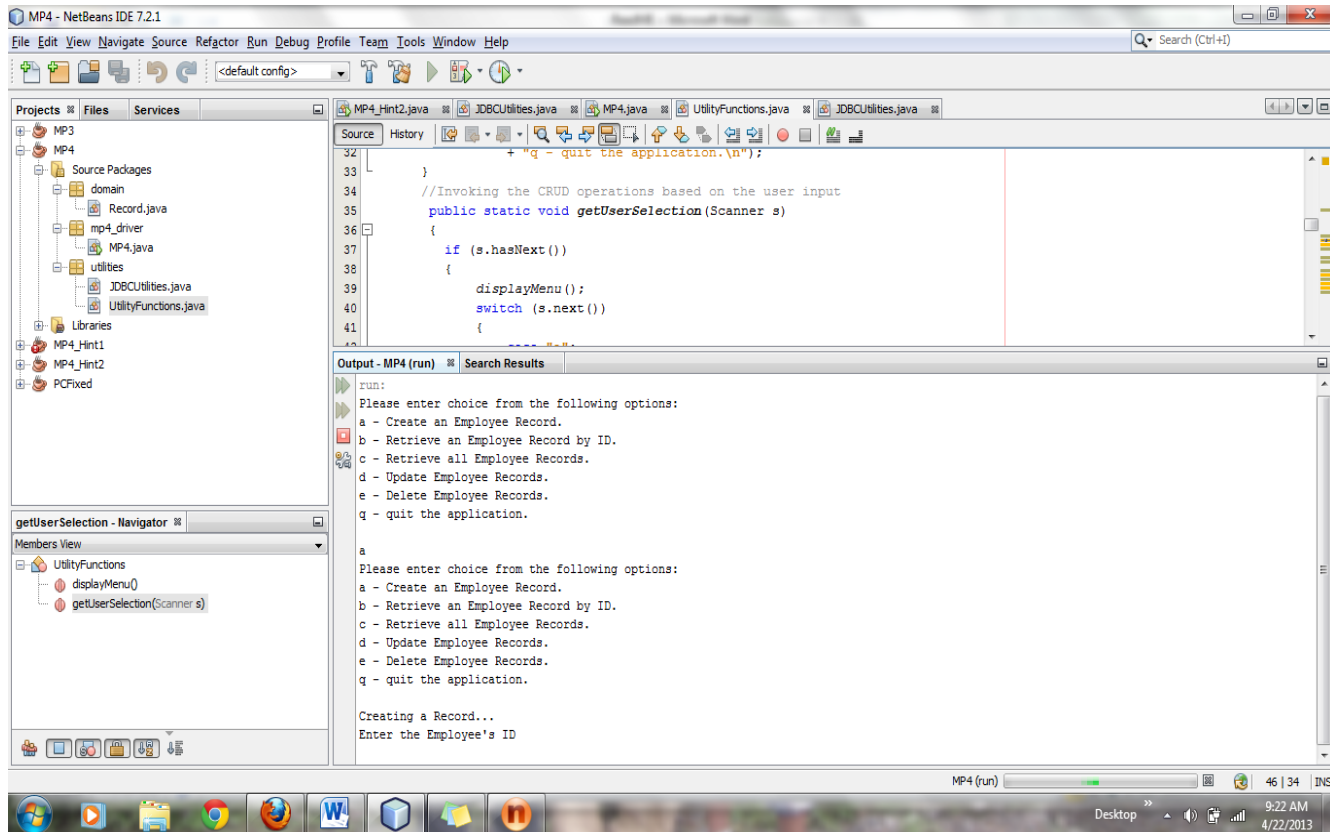
- IDE – NetBeans 7.2.1
- JDK – 1.7.0
- JRE Version 6
- MySQL 5.2
- JDBC Connector *mysql-connector-java-5.1.24-bin*

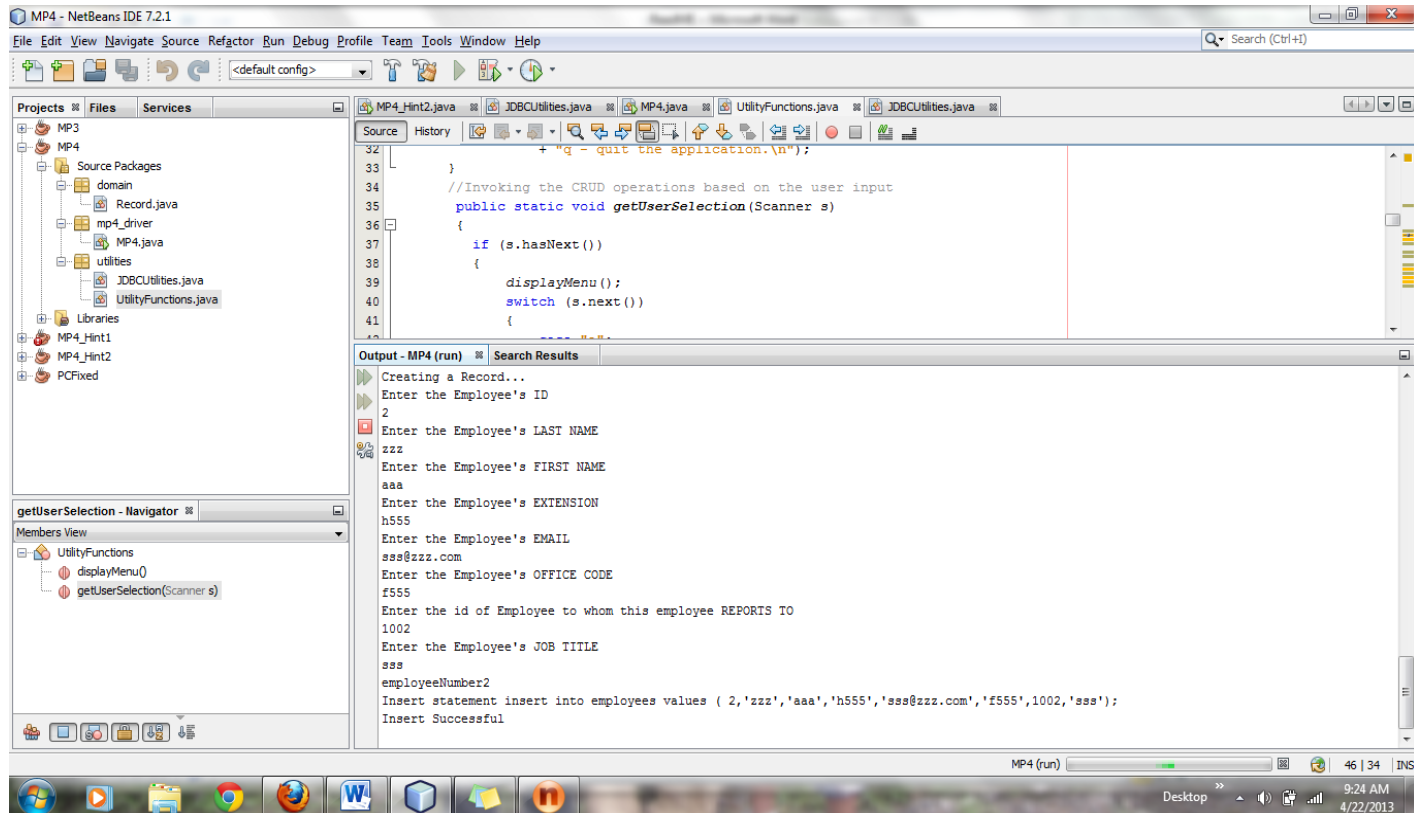
Steps for Execution

Double click on the **JavaWrite.bat** file in the **MP4 folder** to create an output file **mp4out.txt** in the **docs folder**.

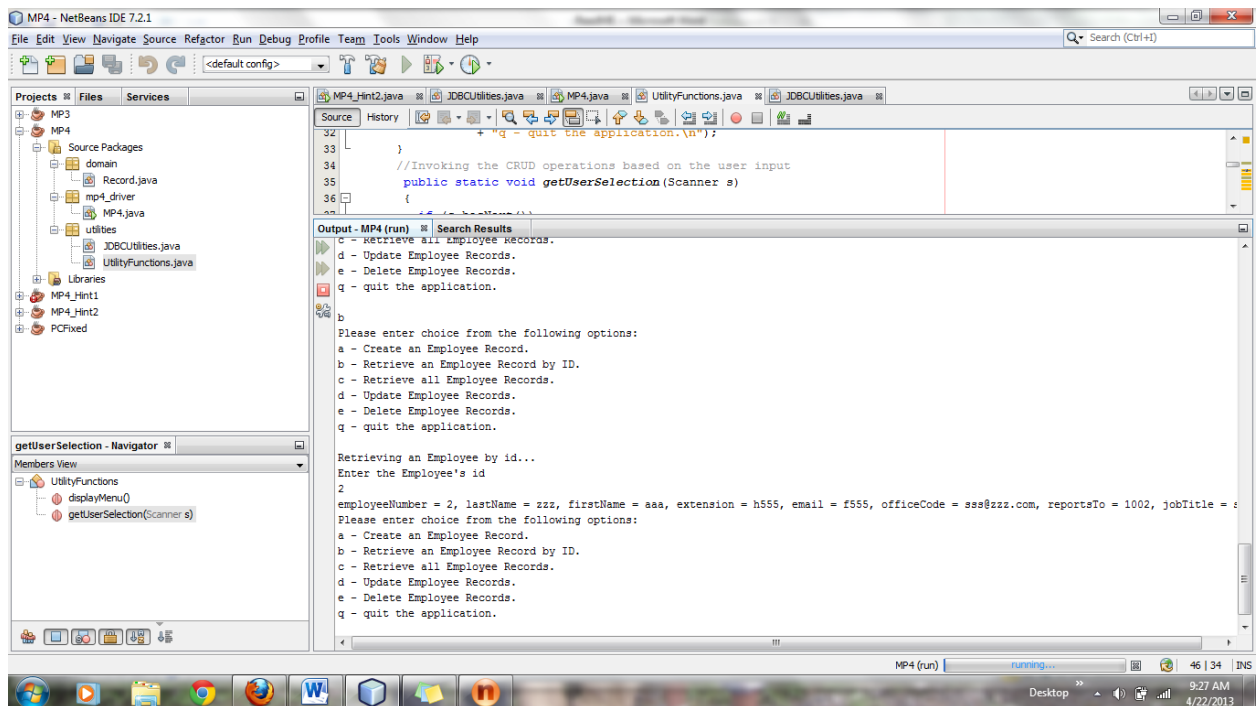
Insights and Expected Results

1. Creating a new Employee Record

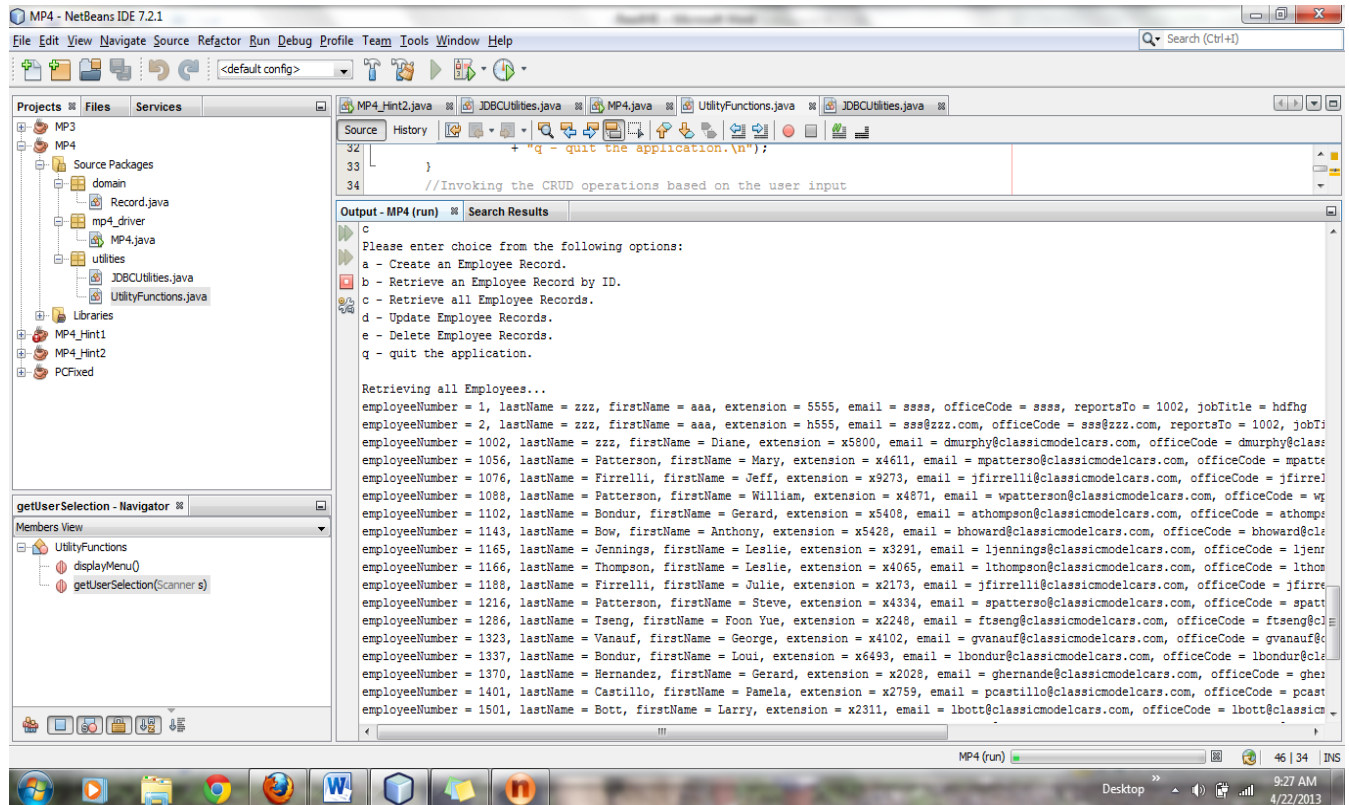




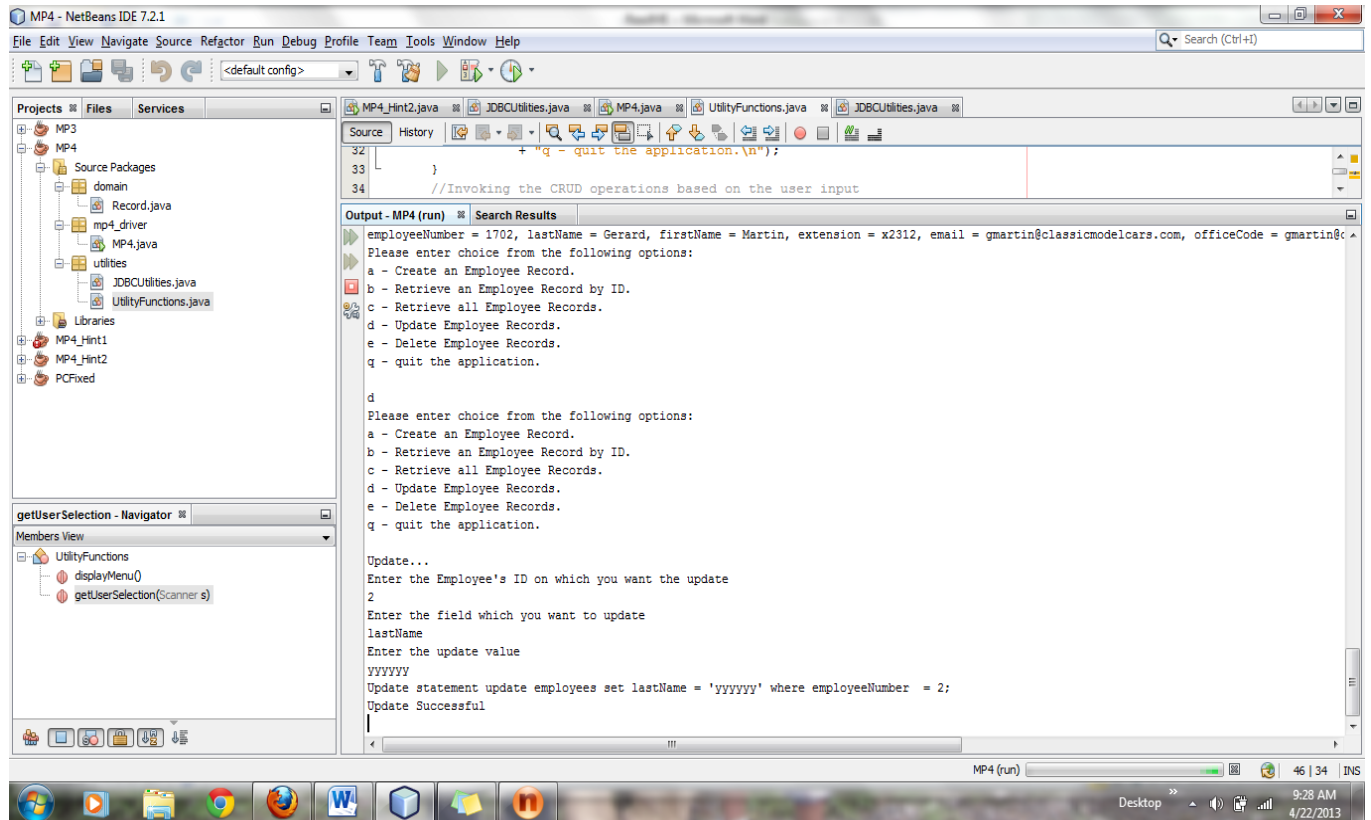
2. Retrieving an Employee Record by ID



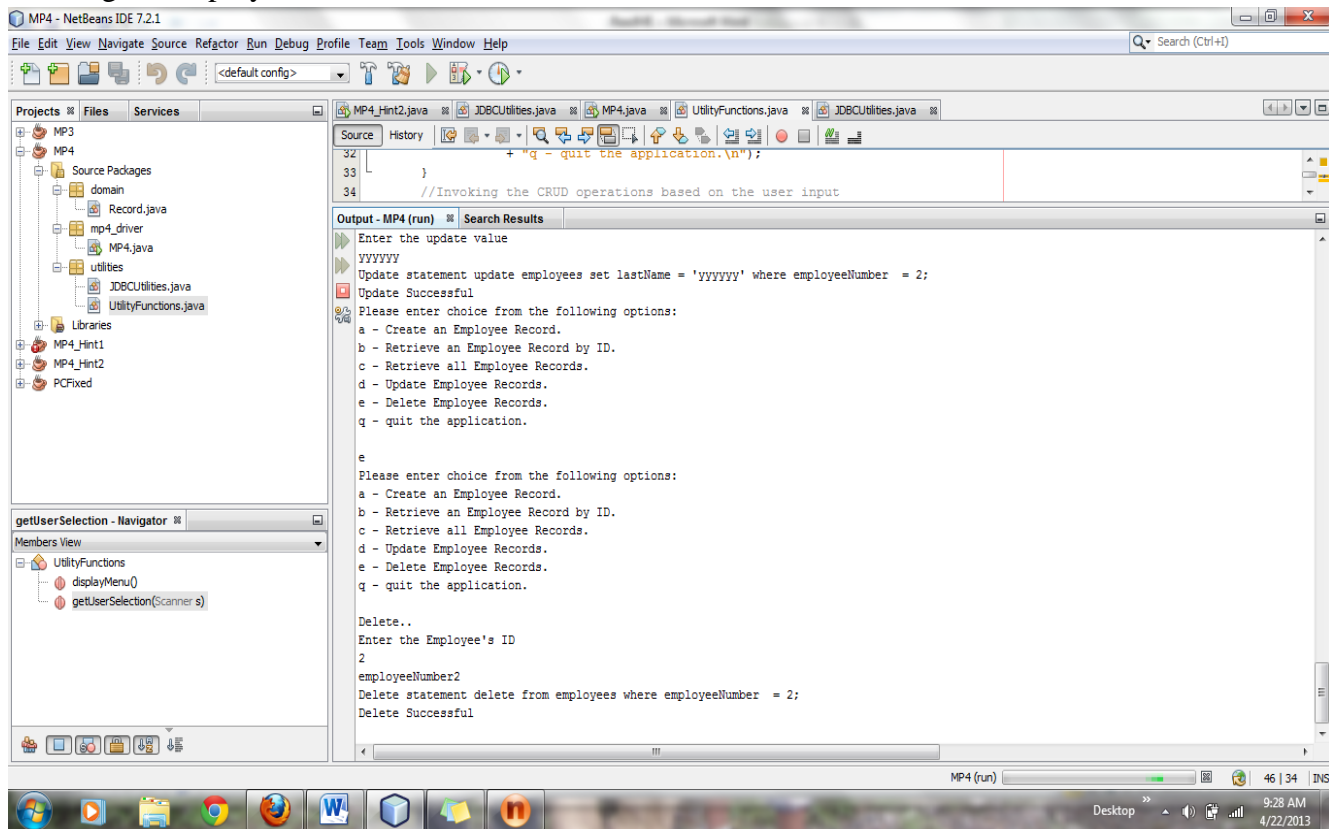
3. Retrieving all Employee Records



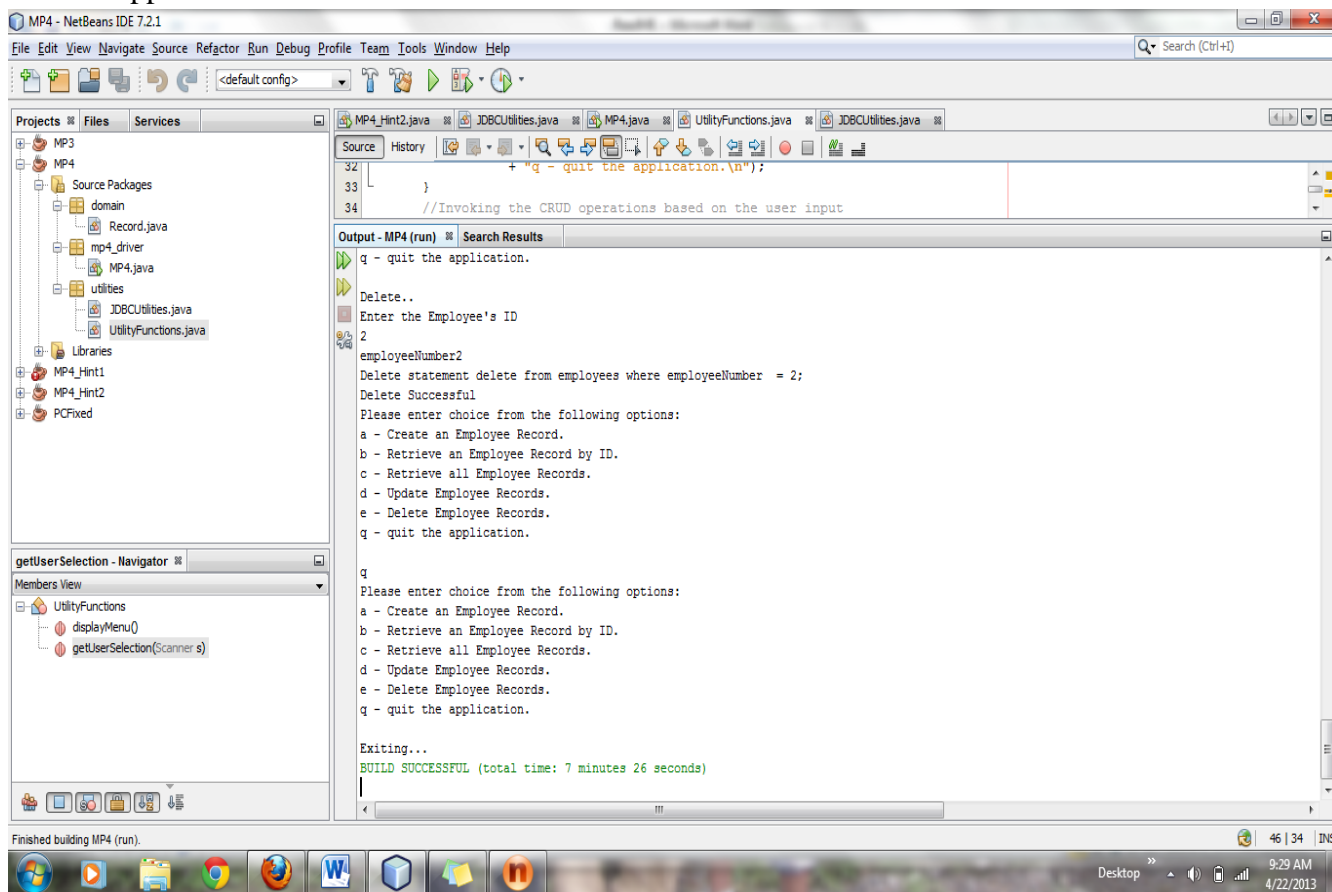
4. Updating an Employee Record



5. Deleting an Employee Record



6. Exit the application



Conclusion

Hence the requirement of JDBC connected CRUD operations is achieved