Title: Database Connectivity

Problem Statement:

Write a program to implement MySQL/ Oracle database connectivity with any front-end language to implement database navigation operations (add, delete, edit etc)

Objectives:

1) Insert a record in mysql database using Java
2) Update a record in mysql database using Java.

Theory related Concepts:

Java database connectivity:

The following 5 steps should be followed:

1) Driver class: driver class for mysql database is com.mysql.jdbc.Driver.

2) Connection url: connection url for the mysql database is jdbc:mysql:// localhost:3306/a08.db

3) Username

4) Password.

Steps:

1) import java sql package.

2) a) load } done using forName ("com.mysql.jdbc")
   b) register }

3) Establish the connection.

4) Create the statement

5> Execute the query
6> Process Result
7> Close

Prepared Statement:

1> An object that represent precompiled SQL statement.

2> A SQL statement is precompiled & stored in a Prepared Statement object.
This object can then be used to efficiently execute the statement multiple times.

eg.

Prepared Statement mystmt = myCon. prepareStatement(query);
mystmt. setInt(1,10)
mystmt. setString(2, "Abhi")
ResultSet myresult = mystmt. executeQuery();

Test cases

The simple table is used for demonstration.
The code files & output screenshot is attached separately.

Conclusion

In this assignment I learned about MySQL database connectivity I connected Java & mysql & performed CRUD operations.