

Bansilal Ramnath Agarwal Charitable Trust's Vishwakarma Institute of Information Technology

Department of Artificial Intelligence and Data Science

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Class: SY Division: B Roll No: 272028

Semester: III Academic Year: 2022-2023

Subject Name & Code: Database Management System: ADUA21204

Title of Assignment: Implement MYSQL database connectivity with Java for Database navigation operations such as insert, delete, and update etc. using ODBC/JDBC.

Assignment No.- 10

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| 100 | Assignment No. 10 |
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| | Aim: Implement MYBQL database connectivity with Java for |
| - TVIV | Database navigation operations such as insert, delete Lupdate |
| | using OBDC/JBDC |
| | |
| | Theory:- |
| | MySQL JDBC- |
| | This driver enables user to connect with live MySOL data directly |
| | from any application that supports JDBC connectivity. Rapidly |
| | create powerful Java Application that integrate with My SOL |
| | compatible database engines. |
| | |
| | JDBC (Java Data Base Connectivity) |
| | It is a Java API to connect & execute query with database. |
| | It uses getconnection() method to establish a database connection |
| | also this class is use to segister driver for a database & these are |
| | the interfaces which are used to execute static SOI query. It |
| | contains the values which are returned by select query |
| | These are four types of JDBC deiners: |
| 1) | JOBC - ODBC Pridge |
| 2) | Partial Java Viner |
| 3) | Pure Java Driver for database middlewale. |
| 4) | Pure Java Driver for direct to database |
| | |
| | Refore connectivity any of them with 301 database one of them must be prefinstalled on or our computer. |
| | must be poe installed on excus computer. |
| | |

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Software Requirement: Java IDE (Eclipse) & MySO(3hell/ (Norkbench

Conclusion: (Ne learned how we can connect the JAVA with 301 database & implemented database raing ation operations such as insert, delete & update using OBDC (JBDC.

(For Educational Use)

Database insert code:

```
package databaseoperation;
import java.sql.*;
public class Databaseoperation (
   public static void main(String[] args) throws ClassNotFoundException, SQLException {
       Class.forName("com.mysql.jdbc.Driver");
       Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/mysql","root","root");
       if(con !=null)
           System.out.println("Sucessfully connected !!!!!");
           String qry="insert into emp(empid,empname)values(2,'BBB')";
           PreparedStatement st=con.prepareStatement(qry);
           int rowcount= st.executeUpdate();
           if(rowcount>0)
               System.out.println("Values are inserted successfully !!!!");
       } catch(SQLException e)
       {e.printStackTrace();}
```

Database retrieve code:

```
package databaseoperation;
import java.sql.*;
public class Databaseoperation (
  public static void main(String[] args) throws ClassNotFoundException, SQLException {
import java.sql.*;
public class retrieve {
   public static void main(String args[]) throws ClassNotFoundException {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/mysql","root","root");
        if(con !=null)
            System.out.println("Sucessfully connected !!!!!");
           Statement st=con.createStatement();
           ResultSet rst=st.executeQuery("select * from emp");
           while(rst.next())
                 System.out.println(rst.getInt(1)+" "+rst.getString(2));
                     con.close();
```

Implementation:



