JAVA PROGRAM TO INTERFACE WITH POSTGRESQL DATABASE

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```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.Statement;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.io.*;
public class employeedb{
   public static void main(String args[])
     Connection c;
     PreparedStatement pst;
     try{
         Class.forName("org.postgresgl.Driver");
c=DriverManager.getConnection("jdbc:postgresql://fisatdb.fisat.edu/fisatdb2
,"fisat2","fisat2");
         Statement stmt=c.createStatement();
         ResultSet rs;
         System.out.println("Connection Established");
         DataInputStream din = new DataInputStream(System.in);
         int id;
         String name, dept;
         float salary;
         int opt=1;
         while(opt!=0)
          {
              System.out.println("MENU");
              System.out.println("----");
              System.out.println("1.INSERT");
              System.out.println("2.DISPLAY");
              System.out.println("3.UPDATE");
              System.out.println("4.QUIT");
              System.out.println("Enter Choice");
              opt=Integer.parseInt(din.readLine());
              switch(opt)
                {
                case 1:
                     // -----INSERT
                     System.out.println("\nID: ");
                     id=Integer.parseInt(din.readLine());
                     System.out.println("\nName: ");
                     name=din.readLine();
                     System.out.println("\nSalary: ");
```

```
salary=Float.parseFloat(din.readLine());
                     System.out.println("\nDept: ");
                     dept=din.readLine();
                     pst=c.prepareStatement("INSERT INTO EMP18
VALUES(?,?,?,?);");
                     pst.setInt(1,id);
                     pst.setString(2,name);
                     pst.setFloat(3,salary);
                     pst.setString(4,dept);
                     pst.executeUpdate();
                     break;
                    }
                case 2:
                   {
                     // ----- DISPLAY
               String sql="SELECT * from EMP18;";
                rs=stmt.executeQuery(sql);
                System.out.println("ID\tNAME\tSALARY\tDEPARTMENT");
               while(rs.next())
                     System.out.println(rs.getInt("id")
+"\t"+rs.getString("name")+"\t"+rs.getFloat("salary")
+"\t"+rs.getString("dept")+"\n");
                break;
                case 3:
                   {
                     // ------UPDATE
                     System.out.println("\n Update: ");
                     System.out.println("\nID: ");
                     id=Integer.parseInt(din.readLine());
                     System.out.println("\nName: ");
                     name=din.readLine();
                     System.out.println("\nSalary: ");
                     salary=Float.valueOf(din.readLine());
                     //System.out.println("type"+typeOf(salary));
                     System.out.println("\nDept: ");
                     dept=din.readLine();
                     pst=c.prepareStatement("UPDATE EMP18 SET id=?,
name=?, salary=?, dept=? WHERE id = ?;");
                     pst.setInt(1,id);
                     pst.setString(2,name);
                     pst.setDouble(3,salary);
                     pst.setString(4,dept);
                     pst.setInt(5,id);
                     pst.executeUpdate();
                     break;
```

```
}
                 case 4:
                     {
                      opt=0;
                      break;
                 }
           }
     }
     catch(Exception e)
           System.out.println("Cannot Establish connection or Database
Error "+e);
    }
}
Output
MENU
----
1.INSERT
2.DISPLAY
3.UPDATE
4.QUIT
Enter Choice
3
Update:
ID:
7
Name:
jisha
Salary:
2200
Dept:
ec
MENU
1.INSERT
2.DISPLAY
3.UPDATE
4.QUIT
Enter Choice
2
ID
     NAME SALARY
                      DEPARTMENT
1
                 10000.0
                            CSE
     Farhan
```

```
2 MRIDULA 20000.0 CSE
```

5 VAISAKH 10000.0 CSE

25000.0

CSE

6 KIRAN 10000.0 CSE

MITHUN

6 kiran 10000.0 cse

4 MISHA 10000.0 CSE

7 jisha 2200.0 ec

MENU

3

- - - - -

1.INSERT

2.DISPLAY

3.UPDATE

4.QUIT

Enter Choice

4

