Miniproject in Java and DBMS

Program:

```
import java.sql.*;
import java.util.Scanner;
class Employee
{
  Connection con;
  Scanner sc;
  String name,desgn;
  int salary,id;
  Employee()
  {
     sc = new Scanner(System.in);
    try
    {
       Class.forName("com.mysql.cj.jdbc.Driver");
       System.out.println("Driver Loaded");
    }
    catch(ClassNotFoundException cfe)
    {
       System.out.println(cfe);
    }
    try
    {
      con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/EMPLOYEE?useSSL=false","root","rajshr
ee@1603");

       System.out.println("Connection Established");
    }
    catch (SQLException e)
    {
       System.out.println(e);
    }
  }
  public void insertEmployee()
    {

       System.out.println("Enter Name :");
       name = sc.next();
       System.out.println("Enter designation :");
       desgn = sc.next();

       System.out.println("Enter Salary :");
       salary = sc.nextInt();
```

```
    try
     {
       PreparedStatement ps = con.prepareStatement("insert into Employee(name,desgn,salary)
values(?,?,?)");
       ps.setString(1,name);
       ps.setString(2,desgn);
       ps.setInt(3,salary);
       int r = ps.executeUpdate();
     }
    catch(SQLException e)
     {
       System.out.println(e);
     }
  }
 public void updateEmployee()
  {
       System.out.println("Enter the id of the employee to be updated ");
       id = sc.nextInt();
       System.out.println("Enter name :");
       name = sc.next();
       System.out.println("Enter the designation :");
       desgn = sc.next();
       System.out.println("Enter the Salary :");

    try
     {
       PreparedStatement ps = con.prepareStatement("update Employee set  name = ?, desgn = ?,
salary = ? where id = ?");
       ps.setString(1,name);
       ps.setString(2,desgn);
       ps.setInt(3,salary);
       ps.setInt(4,id);
       int i = ps.executeUpdate();
     }
    catch(SQLException e)
     {
       System.out.println(e);
     }
  }
  public void deleteEmployee()
  {
      System.out.println("Enter the id of the employee to be updated");
      id = sc.nextInt();
    try
     {
       PreparedStatement ps =con.prepareStatement("delete from the Employee where id = ?");
       ps.setInt(1,id);
       int i = ps.executeUpdate();
```

```
      }
     catch (SQLException e)
      {
        System.out.print(e);
      }

  }
 public void showEmployee()
  {
     try
      {
        PreparedStatement ps = con.prepareStatement("select * from Employee ");
        ResultSet rs = ps.executeQuery();
        while(rs.next())
         {
           System.out.println(rs.getString(1) + "\t" +rs.getString(2) + "\t" +rs.getString(3) + "\t" +
rs.getInt(4));
         }
      }
     catch (SQLException e)
      {
        System.out.println(e);
      }
   }
 }
 class EMPLOYEEjdbc
 {
   public static void main(String args[])
    {
        Employee emp = new Employee();
        int choice;
        Scanner sc = new Scanner(System.in);
        do
        {
            System.out.println("1 Add an Employee");
            System.out.println("2 Update Employee");
            System.out.println("3 Delete an Employee");
            System.out.println("4 Display an Employee detail");
            System.out.println("5 Exit");
            System.out.println("Enter your choice :");
            choice = sc.nextInt();
            switch(choice)
            {
               case 1:
                     emp.insertEmployee();
                     break;
               case 2:
                     emp.updateEmployee();
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                    break;
                case 3:
                    emp.deleteEmployee();
                    break;
                case 4:
                    emp.showEmployee();
                    break;
            }
        }
            while(choice != 5 );
    }
}
```

Output:

```
E:\java_notes>javac EMPLOYEEjdbc.java

E:\java_notes>java  EMPLOYEEjdbc
Driver Loaded
Connection Established
1 Add an Employee
2 Update Employee
3 Delete an Employee
4 Display an Employee detail
5 Exit
Enter your choice :
1
Enter Name :
Rashi
Enter designation :
HR
Enter Salary :
50000
1 Add an Employee
2 Update Employee
3 Delete an Employee
4 Display an Employee detail
5 Exit
Enter your choice :
2
Enter the id of the employee to be updated
1
Enter name :
MEERA
Enter the designation :
Admin
```

```
Enter your choice :
4
1       MEERA   Admin   50000
2       Rashi   HR      80000
4       Mahi    Manager 80000
1 Add an Employee
2 Update Employee
3 Delete an Employee
4 Display an Employee detail
5 Exit
Enter your choice :
5
```