1. Write a Servlet application for fetching the entire data from the database and showing it as tablein response webpage. Use the following query in MySQL for creating a table which contains employee details.create table employee (empid varchar(10), empname varchar(20), age integer, salary integer);
Connection Interface
Package com.jdbc.demo.connection;
Connection interface public interface dBDetails {
String CONSTR = "jdbc:mysql://localhost:3306/cdac_tvm?useSSL=false";
String DBDDRIVER = "com.mysql.cj.jdbc.Driver"; String USERNAME = "root";
String PASSWORD = "radhesham";
}
•Connection class
package com.jdbc.demo.connection;
import java.sql.Connection;

```
import java.sql.DriverManager;
import java.sql.SQLException;
public class DbConnection {
     public static Connection getDbConnection()
     {
          try {
          Class.forName(dBDetails.DBDDRIVER);
          Connection con=
DriverManager.getConnection(dBDetails.CONSTR,dBDetails.US
     ERNAME, dBDetails. PASSWORD);
          return con;
           }
          catch(ClassNotFoundException | SQLException exc) {
           exc.printStackTrace(); return null;
           }
     }
}
```

• EMPLOYEE POJO CLASS

```
package com.jdbc.demo.pojo;
Employee class public class Employee {
     private int id;
     private String ename;
     private int age;
     private int salary;
     public int getId() { return id;
     public void setId(int id) {
     this.id = id;
     public String getEname() {
     return ename;
     }
     public void setEname(String ename) {
     this.ename = ename;
     }
     public int getAge() {
     return age;
```

```
}
     public void setAge(int age) {
     this.age = age;
     }
     public int getSalary() {
     return salary;
     }
     public void setSalary(int salary) {
     this.salary = salary;
     }
     @Override
     public String toString() { return "Employee [id=" + id + ",
ename=" + ename + ",
     age=" + age + ", salary=" + salary + "]";
     }
}
• Employee DAO CLASS
package com.jdbc.demo.dao;
import java.util.List;
```

```
import com.jdbc.demo.pojo.Employee;
public interface Employeedao {
     List<Employee> getAllEmployee();
     Employee searchEmployee(int Empld);
     boolean addNewEmployee(Employee Empmloyee);
     boolean updateEmployee(Employee Employee);
     boolean deleteEmployee(Employee Empld);
}
•IMPLEMENTATION OF EMPLOYEE DAO CLASSS
package com.jdbc.demo.emplmp;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet; import java.sql.SQLException;
import java.sql.Statement;
import java.util.ArrayList;
```

```
import com.jdbc.demo.connection.DbConnection;
 import com.jdbc.demo.dao.Employeedao;
import com.jdbc.demo.pojo.Employee;
public class EmployeeDaoImp implements Employeedao{
     @Override
     public List<Employee> getAllEmployee() { List<Employee>
lst=new ArrayList<>();
     try(Connection con=DbConnection.getDbConnection())
     {
     PreparedStatement pst=con.prepareStatement("SELECT * FROM
Employee");
     ResultSet rs=pst.executeQuery();
     while(rs.next()) {
          Employee emp=new Employee();
          emp.setId(rs.getInt("eid"));
          emp.setEname(rs.getString("ename"));
          emp.setAge(rs.getInt("age"));
          emp.setSalary(rs.getInt("salary"));
          lst.add(emp);
          }
          return lst;
```

```
}
     catch(NullPointerException | SQLException exc)
     {
          exc.printStackTrace(); return null;
     }
     }
@Override
public Employee searchEmployee(int Empld) {
     Employee emp=null; try(Connection
con=DbConnection.getDbConnection())
     {
          PreparedStatement pst=con.prepareStatement("SELECT
*FROM Employee WHERE eid=?");
     ResultSet rs=pst.executeQuery();
     if(rs.isBeforeFirst()) {
          rs.next();
          emp=new Employee();
          emp.setId(rs.getInt("eid"));
          emp.setEname(rs.getString("ename"));
          emp.setAge(rs.getInt("age"));
          emp.setSalary(rs.getInt("salary"));
```

```
return emp;
                         }
     return emp;
     }
     catch(SQLException|NullPointerException exc)
     {
          exc.printStackTrace(); return null;
                 }
     }
@Override
public boolean addNewEmployee(Employee Employee)
{
     try(Connection con=DbConnection.getDbConnection())
     {
          PreparedStatement pst=con.prepareStatement("INSERT
          INTO Employee(ename,age,salary)VALUES (?,?,?)",
          Statement.RETURN GENERATED KEYS);
          pst.setString(1,Employee.getEname());
          pst.setInt(2,Employee.getAge());
          pst.setInt(3, Employee.getSalary());
          int count=pst.executeUpdate();
          ResultSet rs=pst.getGeneratedKeys();
```

```
rs.next();
          System.out.println("generated id is"+rs.getInt(1));
          if(count>0) {
               return true;
               }
          else {
               return false;
          }
     catch(SQLException | NullPointerException exc)
     {
          exc.printStackTrace(); return false;
     }
}
@Override
public boolean updateEmployee(Employee Employee) {
     try(Connection con=DbConnection.getDbConnection())
     {
     PreparedStatement pst=con.prepareStatement("UPDATE
Employee SET ename=?,age=?,salary=?"
                                               + " WHERE eid=?");
     pst.setString(1,Employee.getEname());
```

```
pst.setInt(2, Employee.getAge());
     pst.setInt(3, Employee.getSalary());
     pst.setInt(4, Employee.getId());
     int count =pst.executeUpdate();
          if(count>0) {
                return true;
          }
          else {
                return false;
          }
     }
     catch(SQLException | NullPointerException exc)
     {
          exc.printStackTrace();
          return false;
     }
}
@Override
public boolean deleteEmployee(Employee Empld)
{
          // TODO Auto-generated method stub return false;
}
```

```
}

    Main class

package com.jdbcdemo.main;
import java.util.List;
import java.util.Scanner;
import com.jdbc.demo.dao.Employeedao;
import com.jdbc.demo.emplmp.EmployeeDaoImp;
import com.jdbc.demo.pojo.Employee;
public class AppMain {
     public static void main(String[] args)
          EmployeeDaoImp daoImp=new EmployeeDaoImp();
          Scanner sc=new Scanner(System.in);
          System.out.println("Enter the name");
          String name=sc.next();
```

```
System.out.println("Enter the age");
 int age=sc.nextInt();
System.out.println("Enter the Salary");
int salary=sc.nextInt();
Employee emp=new Employee();
emp.setEname(name);
emp.setAge(age);
emp.setSalary(salary);
if(daoImp.addNewEmployee(emp))
 {
     System.out.println("Employee Save");
}
else
{
     System.out.println("Employee Not save");
}
 }
```



