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;

interface dBDetails { String CONSTR
="jdbc:mysql://localhost:3306/cdac_tvm?useSSL=false";

String DBDDRIVER = "com.mysql.cj.jdbc.Driver";
                    String USERNAME = "root";
String PASSWORD = "abc1234";
}
```

- **Connection** package

```
com.jdbc.demo.connection;    //    5
connection   implementation   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;
//1 Employee class public
class Employee { private
int id; private String
ename; private int age;
private int salary; public
Employee() {

     }
     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;
```

- Employeedao import

```
java.util.List; import
com.jdbc.demo.pojo.Employee;

public interface Employeedao {

     //query Operations
     List<Employee> getAllEmployee();
     Employee searchEmployee(int EmpId);
}
```

- **IMPLEMENTATION OF EMPLOYEE DAO CLASS**

- package com.jdbc.demo.empImp;

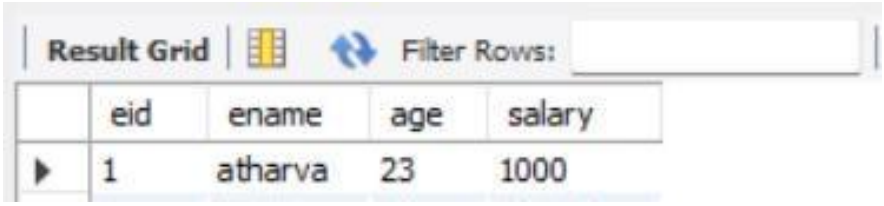
```
import java.sql.Connection; import
java.sql.PreparedStatement; import
java.sql.ResultSet; import
java.sql.SQLException; import
java.sql.Statement; import
java.util.ArrayList; //3 implement
employeedao import java.util.List;

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 EmpId) {
          Employee emp=null; try(Connection
    con=DbConnection.getDbConnection()){
         PreparedStatement pst=con.prepareStatement("SELECT *
FROM Employee WHERE eid=?");
         //at the place of first ? value of EmpId
parameter must be there pst.setInt(1,EmpId);
         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;
         }
}
```

Main class

```
package com.jdbcdemo.main;
```

```
import java.util.List;
import java.util.Scanner;

import com.jdbc.demo.dao.Employeedao;
import com.jdbc.demo.empImp.EmployeeDaoImp;
import com.jdbc.demo.pojo.Employee; public
class AppMain {

     public static void main(String[] args) {



          //ADD NEW ROW
          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");
          }







          }

     }
```


Result Grid Filter Rows:

	eid	ename	age	salary
▶	1	atharva	23	1000