ServletCRUD

Assignment done on the query problem

**index.html:-**

**<!DOCTYPE html>**

**<html>**

**<head>**

**<meta charset="ISO-8859-1">**

**<title> Employee Details</title>**

**</head>**

**<body>**

**<h1>Add New Employee</h1>**

**<form action="SaveServlet" method="post">**

**<table>**

**<tr><td>Name:</td><td><input type="text" name="name"/></td></tr>**

**<tr><td>Password:</td><td><input type="password" name="password"/></td></tr>**

**<tr><td>Email:</td><td><input type="email" name="email"/></td></tr>**

**<tr><td>Salary:</td><td><input type="number" name="salary"/></td></tr>**

**<tr><td>phone:</td><td><input type="number" name="phone"/></td></tr>**

**<tr><td>Country:</td><td>**

**<select name="country" style="width:150px">**

**<option>India</option>**

**<option>USA</option>**

**<option>UK</option>**

**<option>Other</option>**

**</select>**

**</td></tr>**

**<tr><td colspan="2"><input type="submit" value="Save Employee"/></td></tr>**

**</table>**

**</form>**

**<br/>**

**<a href="ViewServlet">view employees</a>**

**</body>**

**</html>**

**--------------------------------------------------------------------------------**

**SaveServlet.java:-**

**import java.io.IOException;**

**import java.io.PrintWriter;**

**import javax.servlet.ServletException;**

**import javax.servlet.annotation.WebServlet;**

**import javax.servlet.http.HttpServlet;**

**import javax.servlet.http.HttpServletRequest;**

**import javax.servlet.http.HttpServletResponse;**

**@WebServlet("/SaveServlet")**

**public class SaveServlet extends HttpServlet {**

**protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {**

**response.setContentType("text/html");**

**PrintWriter out=response.getWriter();**

**String name=request.getParameter("name");**

**String password=request.getParameter("password");**

**String email=request.getParameter("email");**

**String country=request.getParameter("country");**

**String sal=request.getParameter("salary");**

**int salary=Integer.parseInt(sal);**

**String phone=request.getParameter("phone");**

**//int phone=Integer.parseInt(pn);**

**Emp e=new Emp();**

**e.setName(name);**

**e.setPassword(password);**

**e.setEmail(email);**

**e.setCountry(country);**

**e.setSalary(salary);**

**e.setPhone(phone);**

**int status=EmpDao.save(e);**

**if(status>0){**

**out.print("<p>Record saved successfully!</p>");**

**request.getRequestDispatcher("index.html").include(request, response);**

**}else{**

**out.println("Sorry! unable to save record");**

**}**

**out.close();**

**}**

**}**

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**Emp.java:-**

**import** java.util.\*;

**public** **class** Emp {

**private** **int** id;

**private** String name,password,email,country ,phone;

**int** salary;

**public** String getPhone() {

**return** phone;

}

**public** **void** setPhone(String phone) {

**this**.phone = phone;

}

**public** **int** getSalary() {

**return** salary;

}

**public** **void** setSalary(**int** salary) {

**this**.salary = salary;

}

**public** **int** getId() {

**return** id;

}

**public** **void** setId(**int** id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getPassword() {

**return** password;

}

**public** **void** setPassword(String password) {

**this**.password = password;

}

**public** String getEmail() {

**return** email;

}

**public** **void** setEmail(String email) {

**this**.email = email;

}

**public** String getCountry() {

**return** country;

}

**public** **void** setCountry(String country) {

**this**.country = country;

}

}

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**EmpDao.java:-**

**import java.util.\*;**

**import java.sql.\*;**

**public class EmpDao {**

**public static Connection getConnection(){**

**Connection con=null;**

**try{**

**Class.forName("oracle.jdbc.driver.OracleDriver");**

**con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","123");**

**}catch(Exception e){System.out.println(e);}**

**return con;**

**}**

**public static int save(Emp e){**

**int status=0;**

**try{**

**Connection con=EmpDao.getConnection();**

**PreparedStatement ps=con.prepareStatement("insert into user905(id,name,password,email,country,salary,phone) values (crud.nextval,?,?,?,?,?,?)");**

**ps.setString(1,e.getName());**

**ps.setString(2,e.getPassword());**

**ps.setString(3,e.getEmail());**

**ps.setString(4,e.getCountry());**

**ps.setInt(5,e.getSalary());**

**ps.setString(6,e.getPhone());**

**status=ps.executeUpdate();**

**con.close();**

**}catch(Exception ex){ex.printStackTrace();}**

**return status;**

**}**

**public static int update(Emp e){**

**int status=0;**

**try{**

**Connection con=EmpDao.getConnection();**

**PreparedStatement ps=con.prepareStatement("update user905 set name=?,password=?,email=? ,country=? , salary=?, phone=? where id=?");**

**ps.setString(1,e.getName());**

**ps.setString(2,e.getPassword());**

**ps.setString(3,e.getEmail());**

**ps.setString(4,e.getCountry());**

**ps.setInt(5,e.getSalary());**

**ps.setString(6,e.getPhone());**

**ps.setInt(7,e.getId());**

**status=ps.executeUpdate();**

**con.close();**

**}catch(Exception ex){ex.printStackTrace();}**

**return status;**

**}**

**public static int delete(int id){**

**int status=0;**

**try{**

**Connection con=EmpDao.getConnection();**

**PreparedStatement ps=con.prepareStatement("delete from user905 where id=?");**

**ps.setInt(1,id);**

**status=ps.executeUpdate();**

**con.close();**

**}catch(Exception e){e.printStackTrace();}**

**return status;**

**}**

**public static Emp getEmployeeById(int id){**

**Emp e=new Emp();**

**try{**

**Connection con=EmpDao.getConnection();**

**PreparedStatement ps=con.prepareStatement("select \* from user905 where id=?");**

**ps.setInt(1,id);**

**ResultSet rs=ps.executeQuery();**

**if(rs.next()){**

**e.setId(rs.getInt(1));**

**e.setName(rs.getString(2));**

**e.setPassword(rs.getString(3));**

**e.setEmail(rs.getString(4));**

**e.setCountry(rs.getString(5));**

**e.setSalary(rs.getInt(6));**

**e.setPhone(rs.getString(7));**

**}**

**con.close();**

**}catch(Exception ex){ex.printStackTrace();}**

**return e;**

**}**

**public static List<Emp> getAllEmployees(){**

**List<Emp> list=new ArrayList<Emp>();**

**try{**

**Connection con=EmpDao.getConnection();**

**PreparedStatement ps=con.prepareStatement("select \* from user905");**

**ResultSet rs=ps.executeQuery();**

**while(rs.next()){**

**Emp e=new Emp();**

**e.setId(rs.getInt(1));**

**e.setName(rs.getString(2));**

**e.setPassword(rs.getString(3));**

**e.setEmail(rs.getString(4));**

**e.setCountry(rs.getString(5));**

**e.setSalary(rs.getInt(6));**

**e.setPhone(rs.getString(7));**

**list.add(e);**

**}**

**con.close();**

**}catch(Exception e){e.printStackTrace();}**

**return list;**

**}**

**}**

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**ViewServlet.java:-**

**import java.io.IOException;**

**import java.io.PrintWriter;**

**import java.util.List;**

**import javax.servlet.ServletException;**

**import javax.servlet.annotation.WebServlet;**

**import javax.servlet.http.HttpServlet;**

**import javax.servlet.http.HttpServletRequest;**

**import javax.servlet.http.HttpServletResponse;**

**@WebServlet("/ViewServlet")**

**public class ViewServlet extends HttpServlet {**

**protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {**

**response.setContentType("text/html");**

**PrintWriter out=response.getWriter();**

**out.println("<a href='index.html'>Add New Employee</a>");**

**out.println("<h1>Employees List</h1>");**

**List<Emp> list=EmpDao.getAllEmployees();**

**out.print("<table border='1' width='100%'");**

**out.print("<tr><th>Id</th><th>Name</th><th>Password</th><th>Email</th><th>Country</th><th>Salary</th><th>Phone </th><th>Edit</th><th>Delete</th></tr>");**

**for(Emp e:list){**

**out.print("<tr><td>"+e.getId()+"</td><td>"+e.getName()+"</td><td>"+e.getPassword()+"</td><td>"+e.getEmail()+"</td><td>"+e.getCountry()+"</td><td>"+e.getSalary()+"</td><td>"+e.getPhone()+"</td><td><a href='EditServlet?id="+e.getId()+"'>edit</a></td><td><a href='DeleteServlet?id="+e.getId()+"'>delete</a></td></tr>");**

**}**

**out.print("</table>");**

**out.close();**

**}**

**}**

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**EditServlet.java:-**

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/EditServlet")

public class EditServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

response.setContentType("text/html");

PrintWriter out=response.getWriter();

out.println("<h1>Update Employee</h1>");

String sid=request.getParameter("id");

int id=Integer.parseInt(sid);

Emp e=EmpDao.getEmployeeById(id);

out.print("<form action='EditServlet2' method='post'>");

out.print("<table>");

out.print("<tr><td></td><td><input type='hidden' name='id' value='"+e.getId()+"'/></td></tr>");

out.print("<tr><td>Name:</td><td><input type='text' name='name' value='"+e.getName()+"'/></td></tr>");

out.print("<tr><td>Password:</td><td><input type='password' name='password' value='"+e.getPassword()+"'/></td></tr>");

out.print("<tr><td>Email:</td><td><input type='email' name='email' value='"+e.getEmail()+"'/></td></tr>");

out.print("<tr><td>Country:</td><td>");

out.print("<select name='country' style='width:150px'>");

out.print("<option>India</option>");

out.print("<option>USA</option>");

out.print("<option>UK</option>");

out.print("<option>Other</option>");

out.print("</select>");

out.print("<tr><td>salary:</td><td><input type='number' name='salary' value='"+e.getSalary()+"'/></td></tr>");

out.print("<tr><td>Phone:</td><td><input type='number' name='phone' value='"+e.getPhone()+"'/></td></tr>");

out.print("</td></tr>");

out.print("<tr><td colspan='2'><input type='submit' value='Edit &amp; Save '/></td></tr>");

out.print("</table>");

out.print("</form>");

out.close();

}

}

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**EditServlet2.java:-**

**import java.io.IOException;**

**import java.io.PrintWriter;**

**import javax.servlet.ServletException;**

**import javax.servlet.annotation.WebServlet;**

**import javax.servlet.http.HttpServlet;**

**import javax.servlet.http.HttpServletRequest;**

**import javax.servlet.http.HttpServletResponse;**

**@WebServlet("/EditServlet2")**

**public class EditServlet2 extends HttpServlet {**

**protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {**

**response.setContentType("text/html");**

**PrintWriter out=response.getWriter();**

**String sid=request.getParameter("id");**

**int id=Integer.parseInt(sid);**

**String name=request.getParameter("name");**

**String password=request.getParameter("password");**

**String email=request.getParameter("email");**

**String country=request.getParameter("country");**

**int salary=Integer.parseInt(request.getParameter("salary"));**

**String phone=request.getParameter("phone");**

**Emp e=new Emp();**

**e.setId(id);**

**e.setName(name);**

**e.setPassword(password);**

**e.setEmail(email);**

**e.setCountry(country);**

**e.setSalary(salary);**

**e.setPhone(phone);**

**int status=EmpDao.update(e);**

**if(status>0){**

**response.sendRedirect("ViewServlet");**

**}else{**

**out.println("Sorry! unable to update record");**

**}**

**out.close();**

**}**

**}**

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**DeleteServlet.java:-**

/\*create table user905(id number,name varchar2(30),password varchar2(30),

email varchar2(30),country varchar2(30))

select \* from user905

create sequence crud increment by 1 start with 1;\*/

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

@WebServlet("/DeleteServlet")

public class DeleteServlet extends HttpServlet {

protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

String sid=request.getParameter("id");

int id=Integer.parseInt(sid);

EmpDao.delete(id);

response.sendRedirect("ViewServlet");

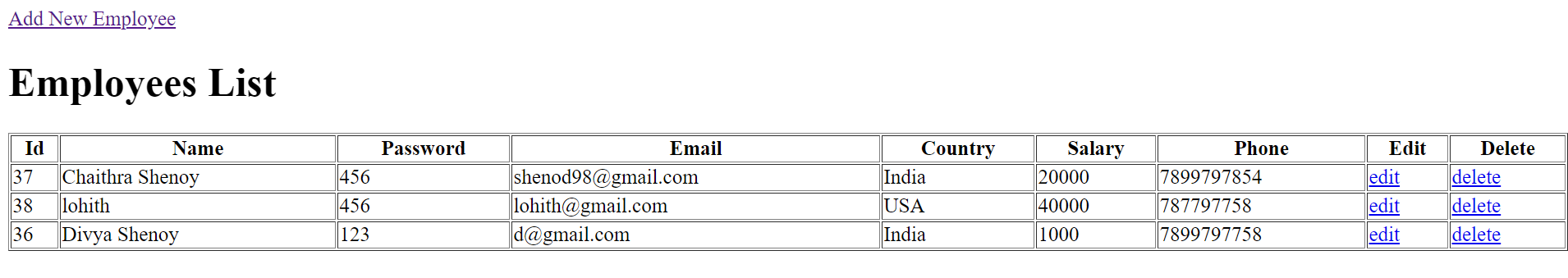
}

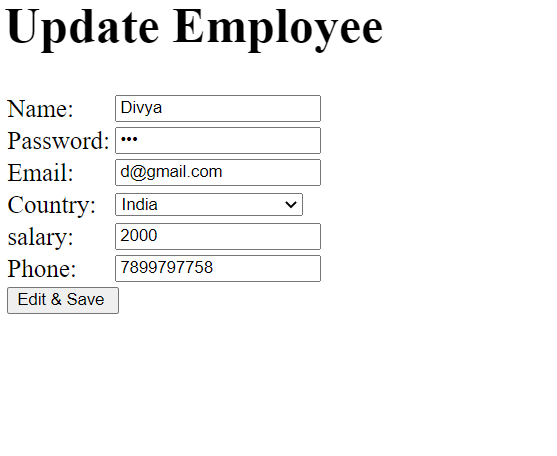
}

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**Output:--->**







**After Updating**

