- 1 Click on the Edit link, Control will have to go to EditServlet and corresponding row data has to display like this
- 2 After changing the information, submit button. You will see that information is changed. It will go to View Servlet
- 3 Now, click on the delete link to delete the record. That particular row has to delete

DBCONNECTION.JAVA

EDITSERVLET.JAVA

```
import jakarta.servlet.ServletException;
import jakarta.servlet.http.*;

import java.io.IOException;

public class EditServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        String action = request.getParameter("action");

        if (action != null && action.equals("edit")) {
            // Handle edit action
            int employeeId = Integer.parseInt(request.getParameter("id"));

        // Fetch employee data by ID from DAO
        EmployeeDao employeeDao = new EmployeeDao();
        Employee employee = employeeDao.getEmployeeById(employeeId);
```

```
request.setAttribute("employee", employee);
request.getRequestDispatcher("/editEmployee.jsp").forward(request,
        } else if (action != null && action.equals("save")) {
            String updatedName = request.getParameter("txtName");
            String updatedPassword = request.getParameter("txtPassword");
            String updatedEmail = request.getParameter("txtEmail");
           String updatedCountry = request.getParameter("country");
            int employeeId = Integer.parseInt(request.getParameter("id"));
           Employee updatedEmployee = new Employee();
           updatedEmployee.setId(employeeId);
           updatedEmployee.setName(updatedName);
           updatedEmployee.setPassword(updatedPassword);
           updatedEmployee.setEmail(updatedEmail);
           updatedEmployee.setCountry(updatedCountry);
           EmployeeDao employeeDao = new EmployeeDao();
            int updateCount = employeeDao.updateEmployee(updatedEmployee);
            if (updateCount > 0) {
               response.sendRedirect(request.getContextPath() +
"/ViewServlet");
        } else if (action != null && action.equals("delete")) {
           int employeeId = Integer.parseInt(request.getParameter("id"));
           EmployeeDao employeeDao = new EmployeeDao();
           int deleteCount = employeeDao.deleteEmployee(employeeId);
            if (deleteCount > 0) {
               response.sendRedirect(request.getContextPath() +
"/ViewServlet");
               response.getWriter().println("Failed to delete employee");
```

EMPLOYEE.JAVA

```
public class Employee {
    private int id;
    private String name;
    private String password;
    private String email;
    private String country;
```

EMPLOYEEDAO.JAVA

```
import java.sql.*;
import java.util.ArrayList;
import java.util.List;

public class EmployeeDao {
    private Connection con;
    private PreparedStatement ps;

    public EmployeeDao() {
        con = DBConnection.getConnection();
     }

    public List<Employee> getAllEmployees() {
        List<Employee> allEmployees = new ArrayList<>();
```

```
ps = con.prepareStatement("SELECT * FROM EMPLOYEE");
    ResultSet rs = ps.executeQuery();
    while (rs.next()) {
          mployee employee = new Employee();
        employee.setId(rs.getInt("ID"));
        employee.setName(rs.getString("NAME"));
employee.setPassword(rs.getString("PASSWORD"));
employee.setEmail(rs.getString("EMAIL"));
        employee.setCountry(rs.getString("COUNTRY"));
        allEmployees.add(employee);
    rs.close();
} catch (SQLException ex) {
    ex.printStackTrace(); // Handle or log the exception properly
} finally {
return allEmployees;
Employee employee = null;
    ps = con.prepareStatement("SELECT * FROM EMPLOYEE WHERE ID =
    ps.setInt(1, id);
    ResultSet rs = ps.executeQuery();
    if (rs.next()) {
        employee = new Employee();
        employee.setId(rs.getInt("ID"));
        employee.setName(rs.getString("NAME"));
        employee.setPassword(rs.getString("PASSWORD"));
        employee.setEmail(rs.getString("EMAIL"));
        employee.setCountry(rs.getString("COUNTRY"));
   ex.printStackTrace(); // Handle or log the exception properly
return employee;
int count = 0;
    ps = con.prepareStatement("UPDATE EMPLOYEE SET NAME=?,
    ps.setString(1, employee.getName());
    ps.setString(2, employee.getPassword());
```

```
ps.setString(3, employee.getEmail());
            ps.setString(4, employee.getCountry());
            ps.setInt(5, employee.getId());
         count = ps.executeUpdate();
catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
   public int deleteEmployee(int id) {
           ps = con.prepareStatement("DELETE FROM EMPLOYEE WHERE ID = ?");
           ps.setInt(1, id);
           count = ps.executeUpdate();
        } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
import java.sql.*;
import java.util.ArrayList;
import java.util.List;
oublic class EmployeeDao {
   private PreparedStatement ps;
       con = DBConnection.getConnection();
   public List<Employee> getAllEmployees() {
       List<Employee> allEmployees = new ArrayList<>();
            ps = con.prepareStatement("SELECT * FROM EMPLOYEE");
            ResultSet rs = ps.executeQuery();
            while (rs.next()) {
                Employee employee = new Employee();
                employee.setId(rs.getInt("ID"));
                employee.setName(rs.getString("NAME"));
                employee.setPassword(rs.getString("PASSWORD"));
                employee.setEmail(rs.getString("EMAIL"));
                employee.setCountry(rs.getString("COUNTRY"));
                allEmployees.add(employee);
```

```
rs.close();
       } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
       return allEmployees;
   public Employee getEmployeeById(int id) {
       Employee employee = null;
           ps = con.prepareStatement("SELECT * FROM EMPLOYEE WHERE ID =
?");
           ps.setInt(1, id);
           ResultSet rs = ps.executeQuery();
               employee = new Employee();
               employee.setId(rs.getInt("ID"));
               employee.setName(rs.getString("NAME"));
               employee.setPassword(rs.getString("PASSWORD"));
               employee.setEmail(rs.getString("EMAIL"));
               employee.setCountry(rs.getString("COUNTRY"));
           rs.close();
       } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
       return employee;
   public int updateEmployee(Employee employee) {
           ps = con.prepareStatement("UPDATE EMPLOYEE SET NAME=?,
           ps.setString(1, employee.getName());
           ps.setString(2, employee.getPassword());
           ps.setString(3, employee.getEmail());
           ps.setString(4, employee.getCountry());
           ps.setInt(5, employee.getId());
           count = ps.executeUpdate();
       } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
```

```
ps = con.prepareStatement("DELETE FROM EMPLOYEE WHERE ID = ?");
           ps.setInt(1, id);
           count = ps.executeUpdate();
       } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
       } finally {
    // Close PreparedStatement here if needed
import java.sql.*;
import java.util.ArrayList;
mport java.util.List;
   private Connection con;
   private PreparedStatement ps;
       List<Employee> allEmployees = new ArrayList<>();
           ps = con.prepareStatement("SELECT * FROM EMPLOYEE");
           ResultSet rs = ps.executeQuery();
                Employee employee = new Employee();
                employee.setId(rs.getInt("ID"));
                employee.setName(rs.getString("NAME"));
                employee.setPassword(rs.getString("PASSWORD"));
               employee.setEmail(rs.getString("EMAIL"));
               employee.setCountry(rs.getString("COUNTRY"));
               allEmployees.add(employee);
           ex.printStackTrace(); // Handle or log the exception properly
       } finally {
       return allEmployees;
       Employee employee = null;
```

```
ps = con.prepareStatement("SELECT * FROM EMPLOYEE WHERE ID =
");
            ps.setInt(1, id);
ResultSet rs = ps.executeQuery();
            if (rs.next()) {
    employee = new Employee();
                employee.setId(rs.getInt("ID"));
employee.setName(rs.getString("NAME"));
employee.setPassword(rs.getString("PASSWORD"));
                 employee.setEmail(rs.getString("EMAIL"));
                employee.setCountry(rs.getString("COUNTRY"));
           rs.close();
        } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
        return employee;
           ps = con.prepareStatement("UPDATE EMPLOYEE SET NAME=?,
            ps.setString(1, employee.getName());
            ps.setString(2, employee.getPassword());
            ps.setString(3, employee.getEmail());
            ps.setString(4, employee.getCountry());
            ps.setInt(5, employee.getId());
            count = ps.executeUpdate();
        } catch (SQLException ex) {
            ex.printStackTrace(); // Handle or log the exception properly
        finally {
    // Close PreparedStatement here if needed
       int count = 0;
            ps = con.prepareStatement("DELETE FROM EMPLOYEE WHERE ID = ?");
            count = ps.executeUpdate();
        } catch (SQLException ex) {
            ex.printStackTrace(); // Handle or log the exception properly
```

```
import java.sql.*;
import java.util.ArrayList;
import java.util.List;
public class EmployeeDao {
   private Connection con;
   private PreparedStatement ps;
       con = DBConnection.getConnection();
       List<Employee> allEmployees = new ArrayList<>();
           ps = con.prepareStatement("SELECT * FROM EMPLOYEE");
           ResultSet rs = ps.executeQuery();
           while (rs.next()) {
                Employee employee = new Employee();
                employee.setId(rs.getInt("ID"));
                employee.setName(rs.getString("NAME"));
                employee.setPassword(rs.getString("PASSWORD"));
                employee.setEmail(rs.getString("EMAIL"));
                employee.setCountry(rs.getString("COUNTRY"));
                allEmployees.add(employee);
            rs.close();
        } catch (SQLException ex) {
           ex.printStackTrace(); // Handle or log the exception properly
       return allEmployees;
   public Employee getEmployeeById(int id) {
       Employee employee = null;
           ps = con.prepareStatement("SELECT * FROM EMPLOYEE WHERE ID =
?");
           ps.setInt(1, id);
           ResultSet rs = ps.executeQuery();
            if (rs.next()) {
                employee = new Employee();
                employee.setId(rs.getInt("ID"));
                employee.setName(rs.getString("NAME"));
                employee.setPassword(rs.getString("PASSWORD"));
                employee.setEmail(rs.getString("EMAIL"));
                employee.setCountry(rs.getString("COUNTRY"));
            rs.close();
```

```
} catch (SQLException ex) {
       ex.printStackTrace(); // Handle or log the exception properly
    return employee;
public int updateEmployee(Employee employee) {
       ps = con.prepareStatement("UPDATE EMPLOYEE SET NAME=?,
       ps.setString(1, employee.getName());
       ps.setString(2, employee.getPassword());
       ps.setString(3, employee.getEmail());
       ps.setString(4, employee.getCountry());
       ps.setInt(5, employee.getId());
       count = ps.executeUpdate();
    } catch (SQLException ex) {
       ex.printStackTrace(); // Handle or log the exception properly
       ps = con.prepareStatement("DELETE FROM EMPLOYEE WHERE ID = ?");
       ps.setInt(1, id);
       count = ps.executeUpdate();
    } catch (SQLException ex) {
       ex.printStackTrace(); // Handle or log the exception properly
    return count;
```

VIEWSERVLET.JAVA

```
import jakarta.servlet.*;
import jakarta.servlet.http.*;
import java.io.IOException;
import java.util.List;

public class ViewServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;
    private EmployeeDao employeeDao;
```

```
super.init();
       employeeDao = new EmployeeDao(); // Initialize EmployeeDao on
   protected void doGet(HttpServletRequest request, HttpServletResponse
            int employeeId = Integer.parseInt(request.getParameter("id"));
            int deleteCount = employeeDao.deleteEmployee(employeeId);
            if (deleteCount > 0) {
               response.sendRedirect(request.getContextPath() +
"/ViewServlet");
           List<Employee> allEmployees = employeeDao.getAllEmployees();
            request.setAttribute("allEmployees", allEmployees);
           RequestDispatcher dispatcher =
request.getRequestDispatcher("/viewEmployees.jsp");
           dispatcher.forward(request, response);
   protected void doPost (HttpServletRequest request, HttpServletResponse
```

EDITEMPLOYEE.JSP

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
  <meta charset="UTF-8">
  <title>View All Employees</title>
  <h1>View All Employees</h1>
        <th>ID</th>
        Name
        Password
        Email
     <c:forEach items="${allEmployees}" var="employee">
        ${employee.id}
           $ {employee.name} 
           ${employee.password}
           $ {employee.email} 
           ${employee.country}
href="EditServlet?action=edit&id=${employee.id}">Edit</a></rap>
```

UPDATEFORM.JSP

OUTPUT:

