

1. Write a Servlet application for fetching the entire data from the database and showing it as a table in 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);
```

```
package advex;
```

```
public class EmployeeServlet {  
    import java.io.*;  
    import java.sql.*;  
    import java.util.*;  
    import javax.servlet.*;  
    import javax.servlet.http.*;  
  
    public class EmployeeServlet extends HttpServlet {  
  
        public void doGet(HttpServletRequest request,  
        HttpServletResponse response)  
            throws ServletException, IOException {  
  
            response.setContentType("text/html");  
  
            PrintWriter out = response.getWriter();  
            out.println("<html><body>");  
  
            // Establish a connection to the MySQL database  
            String url = "jdbc:mysql://localhost:3306/exam";  
            String user = "root";  
            String password = "pass123";  
            try {  
                Class.forName("com.mysql.cj.jdbc.Driver");  
                Connection con =  
                DriverManager.getConnection(url, root, pass123);
```

```

        Statement stmt = con.createStatement();
        ResultSet rs = stmt.executeQuery("SELECT *
FROM employee");

        List<String[]> data = new ArrayList<>();
        while (rs.next()) {
            String empid = rs.getString("empid");
            String empname =
rs.getString("empname");
            int age = rs.getInt("age");
            int salary = rs.getInt("salary");
            String[] row = {empid, empname,
Integer.toString(age), Integer.toString(salary)};
            data.add(row);
        }

        out.println("<table border='1'>");
        out.println("<tr><th>Emp ID</th><th>Emp
Name</th><th>Age</th><th>Salary</th></tr>");
        for (String[] row : data) {
            out.println("<tr>");
            for (String cell : row) {
                out.println("<td>" + cell +
"</td>");
            }
            out.println("</tr>");
        }
        out.println("</table>");

        con.close();

    } catch (Exception e) {
        out.println("Error: " + e.getMessage());
    }
}

```

```

        out.println("</body></html>");
        out.close();
    }
}
}

```

```

import java.io.IOException;
import java.util.List;

```

```

import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

public class EmployeeServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

```

```

    private EmployeeDAO employeeDAO;

```

```

    public void init() {
        employeeDAO = new EmployeeDAO();
    }

```

```

    protected void doGet(HttpServletRequest request,
        HttpServletResponse response)
        throws ServletException, IOException {
        List<Employee> employees =
        employeeDAO.getAllEmployees();
        request.setAttribute("employees", employees);

```

```

        request.getRequestDispatcher("employee.jsp").forward(request
        , response);
    }
}

```

```

package com.jdbc.demo.pojo;

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 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 + ",
name=" + name + ",
age=" + age + ", salary=" + salary + "]\n";
}
}

```

```

<?xml version="1.0" encoding="UTF-8"?>
<web-app version="3.1"
xmlns="http://xmlns.jcp.org/xml/ns/javaee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd">
  <display-name>EmployeeTableServlet</display-name>
  <servlet>
    <servlet-name>EmployeeTableServlet</servlet-name>
    <servlet-class>com.example.EmployeeTableServlet</servlet-
class>
  </servlet>
  <servlet-mapping>
    <servlet-name>EmployeeTableServlet</servlet-name>

```

```
<url-pattern>/employeeTable</url-pattern>  
</servlet-mapping>  
</web-app>
```