

Experiment: 4

Aim: Design a form to input details of an employee and submit the data to a servlet. Write code for servlet that will save the entered details as a new record in database table Employee with fields (EmpId, EName, Email, Age)

Code:

1. web.xml

```
<?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">

    <servlet>
        <servlet-name>Sample</servlet-name>

        <servlet-class>Sample</servlet-class>
    </servlet>

    <servlet-mapping>
        <servlet-name>Sample</servlet-name>
        <url-pattern>/Sample</url-pattern>
    </servlet-mapping>
</web-app>
```

2. index.html

```
<!DOCTYPE html>
<html>

    <head>

        <title>TODO supply a title</title>

        <meta charset="UTF-8">

        <meta name="viewport"    content="width=device-width,    initial-
scale=1.0">

    </head>
    <body>

        <form method="POST" action="/Test_Examples/Sample"> Enter
```

```

Employee Id: <input type="number" name="id"/><br/>
Enter Employee Name: <input type="text" name="name"/><br/> Enter
Employee Email: <input type="text" name="email"/><br/> Enter
Employee Age: <input type="number" name="age"/><br/>
               <input type="submit" value="SUBMIT"/></form>

</body>
</html>

```

3. Sample.java

```

import java.io.*;
import javax.servlet.http.*;

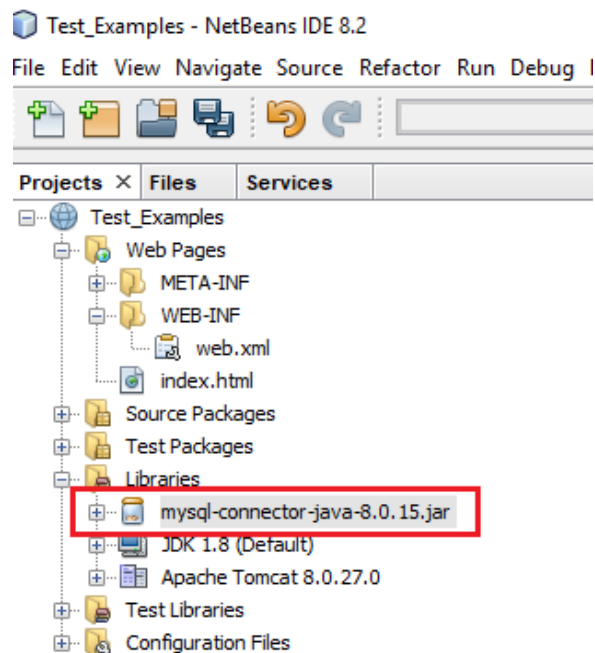
import javax.servlet.*;
import java.sql.*;

public class Sample extends HttpServlet
{
    @Override
    Protected void doPost(HttpServletRequest request, HttpServletResponse
    response) throws ServletException, IOException
    {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            Connection
            con=DriverManager.getConnection("jdbc:mysql://localhost
            :3306/gec","root","root");
            PreparedStatement pst=con.prepareStatement("insert into
            employee values(?,?,?,?)");
            pst.setInt(1,Integer.parseInt(request.getParameter("id")));
            pst.setString(2, request.getParameter("name")); pst.setString(3,
            request.getParameter("email"));

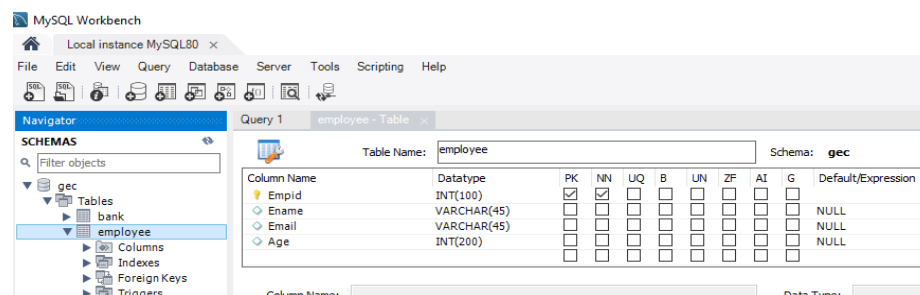
```

```
pst.setInt(4,  
Integer.parseInt(request.getParameter("age")));  
pst.executeUpdate();  
out.println("Data Inserted Sucessfully...");  
}  
catch(Exception e){out.println(e.getMessage());}
```

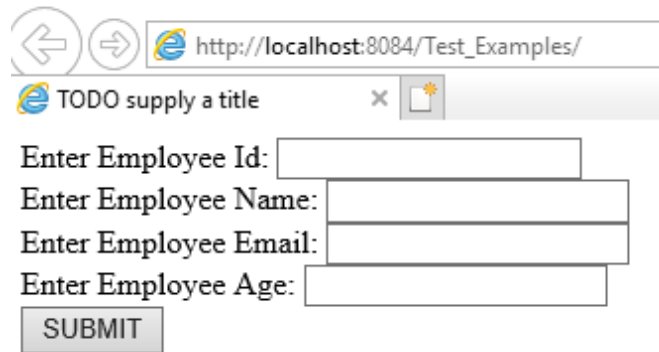
Output:



Employee table will be created in MySQL Workbench 80:

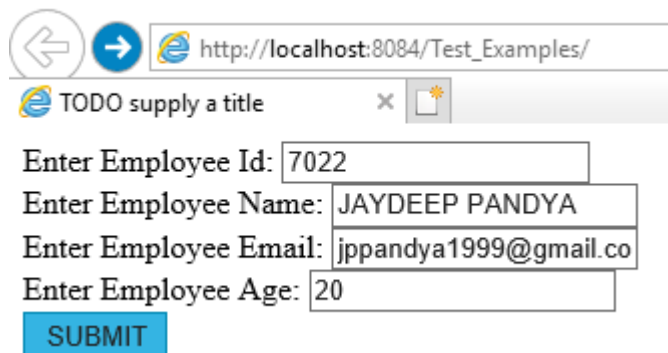


Running an application now...

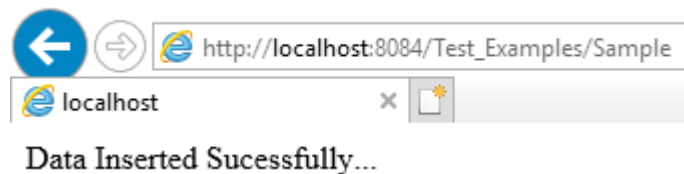


A screenshot of a web browser window. The address bar shows 'http://localhost:8084/Test_Examples/'. The browser tab is titled 'TODO supply a title'. The page content includes four input fields with labels: 'Enter Employee Id:', 'Enter Employee Name:', 'Enter Employee Email:', and 'Enter Employee Age:'. Below these fields is a 'SUBMIT' button.

Entering a detail of an employee and press on SUBMIT Button then.



A screenshot of the same web browser window, but now with data entered in the form fields. The 'Enter Employee Id:' field contains '7022', 'Enter Employee Name:' contains 'JAYDEEP PANDYA', 'Enter Employee Email:' contains 'jppandya1999@gmail.co', and 'Enter Employee Age:' contains '20'. The 'SUBMIT' button is now highlighted in blue.



A screenshot of the web browser window after clicking the submit button. The address bar now shows 'http://localhost:8084/Test_Examples/Sample'. The browser tab is titled 'localhost'. The page content displays the message 'Data Inserted Sucessfully...'.

Now... See in MySQL WorkBench80....

The screenshot displays the MySQL Workbench interface. On the left, the 'SCHEMAS' navigator shows a tree structure with 'gec' expanded, containing 'Tables' (bank, employee), 'Columns', 'Indexes', 'Foreign Keys', 'Triggers', 'student', 'Views', 'Stored Procedures', and 'Functions'. The 'employee' table is selected. The main workspace shows a query window with the SQL statement: `SELECT * FROM gec.employee;`. Below the query, the 'Result Grid' is visible, showing a single row of data for the employee with Empid 7022, Ename JAYDEEP PANDYA, Email jppandya1999@gmail.com, and Age 20. The grid also includes a row for NULL values.

Empid	Ename	Email	Age
7022	JAYDEEP PANDYA	jppandya1999@gmail.com	20
NULL	NULL	NULL	NULL