

Godavari Foundation's
Godavari College of Engineering, Jalgaon
Department of Computer

Lab Manual

Database System Laboratory

Practical No:- _____

Date:- _____

Name of Student:- _____

Class:- _____

Roll No:- _____

Title:

Aim: -

Software Requirement: _____

Hardware Requirement:- _____

Theory:-

HTML and MYSQL Database Connectivity using Sevlet

Start MYSQL

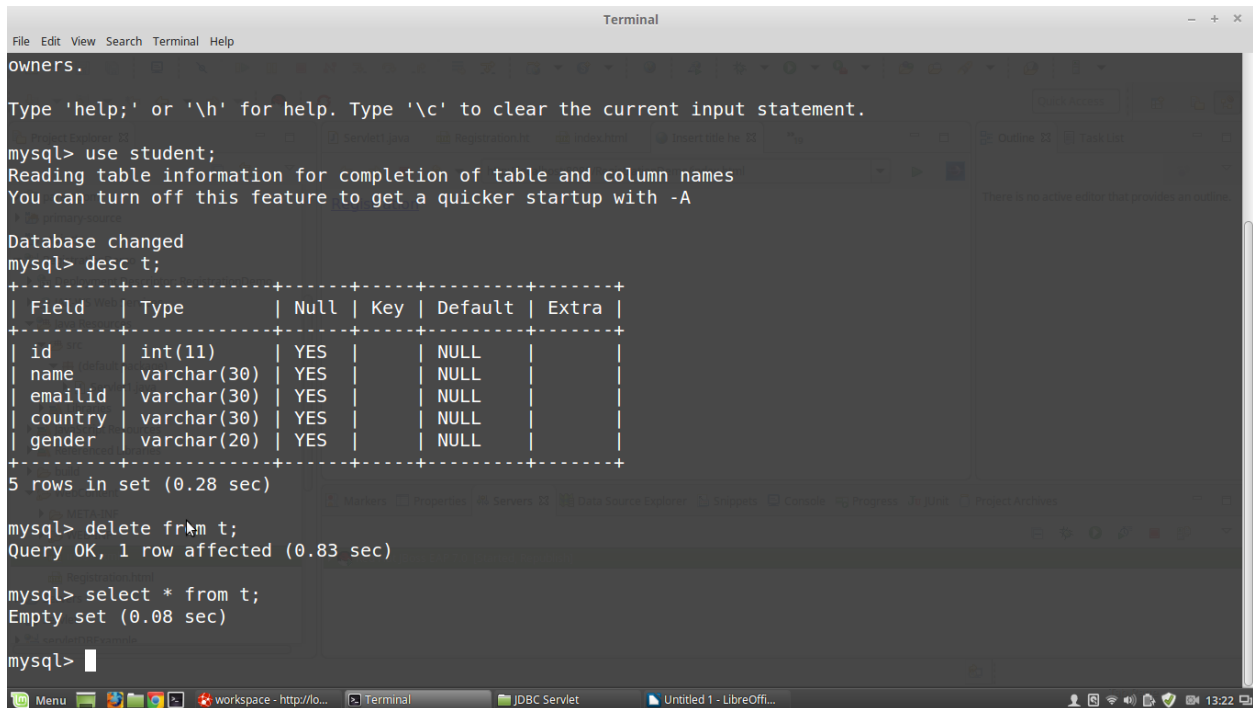
Create Table t in student Database

```
Terminal
File Edit View Search Terminal Help
Server version: 5.5.62-0ubuntu0.14.04.1 (Ubuntu)
Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> use student;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed
mysql> desc t;
+-----+-----+-----+-----+-----+-----+
| Field | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id    | int(11)       | YES  |     | NULL    |       |
| name  | varchar(30)   | YES  |     | NULL    |       |
| emailid | varchar(30)  | YES  |     | NULL    |       |
| country | varchar(30)  | YES  |     | NULL    |       |
| gender | varchar(20)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
5 rows in set (0.28 sec)

mysql> 
```

`select * from t;`

Empty set message is displayed

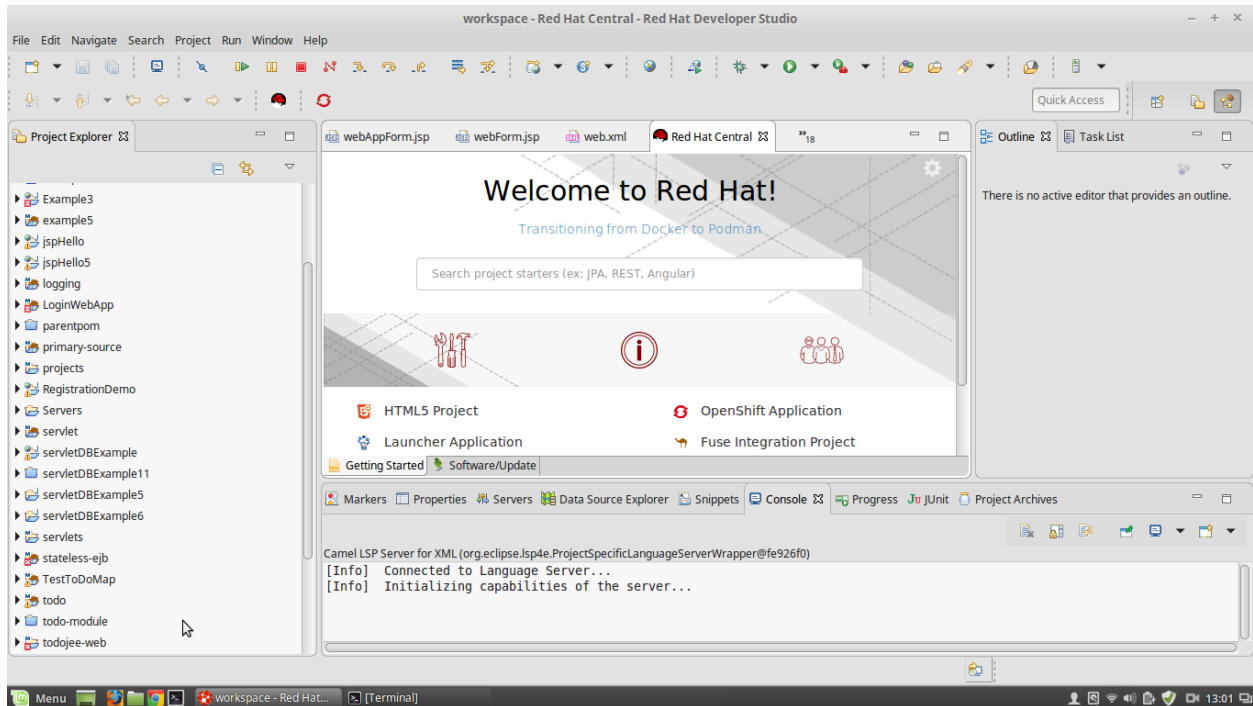


The screenshot shows a MySQL terminal window with the following content:

```
owners.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
mysql> use student;  
Reading table information for completion of table and column names  
You can turn off this feature to get a quicker startup with -A  
Database changed  
mysql> desc t;  
+-----+-----+-----+-----+-----+-----+  
| Field | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| id    | int(11)       | YES  |     | NULL    |       |  
| name  | varchar(30)   | YES  |     | NULL    |       |  
| emailid | varchar(30)  | YES  |     | NULL    |       |  
| country | varchar(30)  | YES  |     | NULL    |       |  
| gender | varchar(20)   | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
5 rows in set (0.28 sec)  
  
mysql> delete from t;  
Query OK, 1 row affected (0.83 sec)  
  
mysql> select * from t;  
Empty set (0.08 sec)  
  
mysql>
```

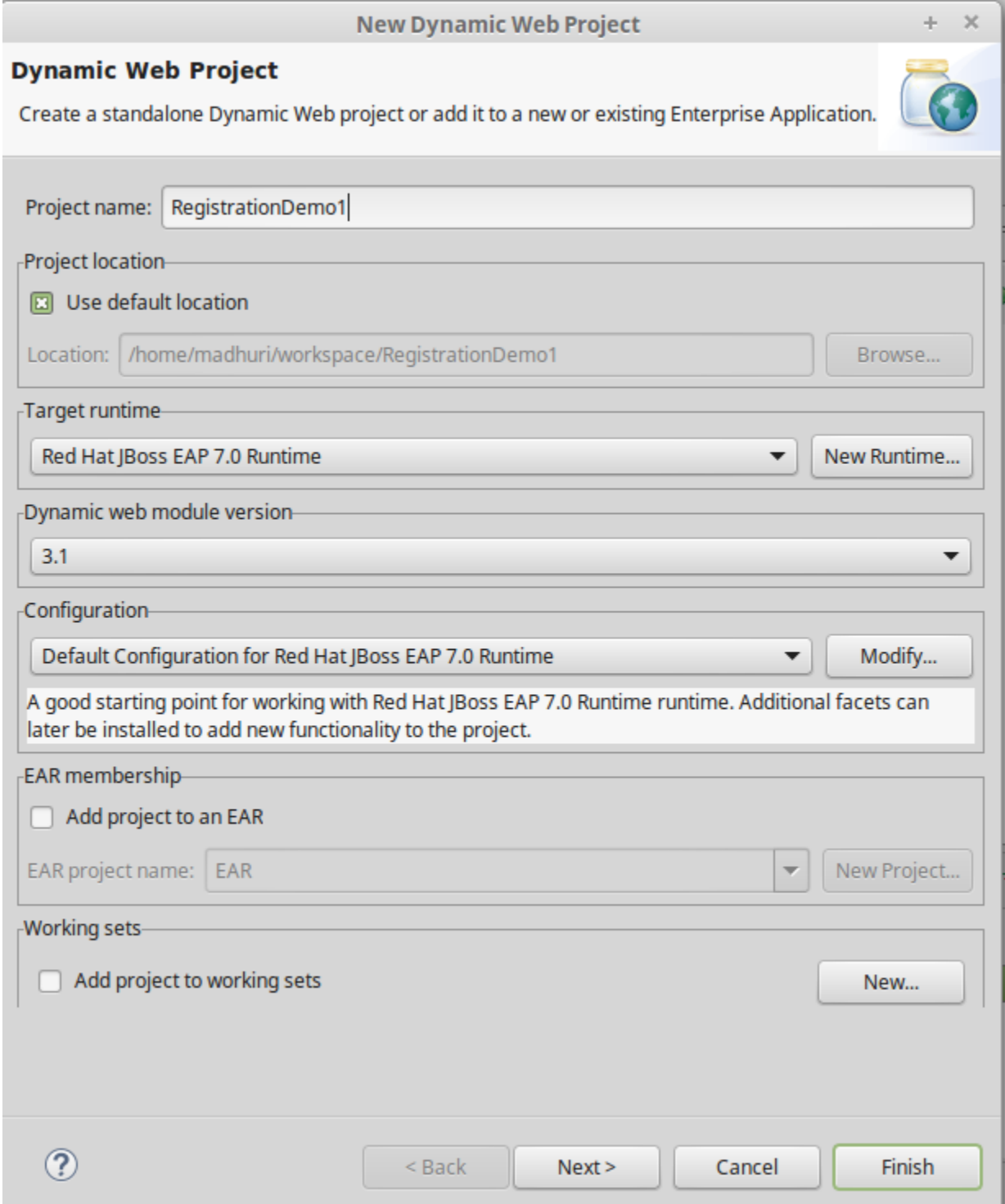
The terminal window has a title bar "Terminal" and a menu bar "File Edit View Search Terminal Help". The status bar at the bottom shows "Menu", "workspace - http://o...", "Terminal", "JDBC Servlet", "Untitled 1 - LibreOff...", and the time "13:22".

Open Red Hat Developer Studio EAP 7.0



Click File→New→Dynamic Web Project

Create Project RegistrationDemo



New Dynamic Web Project

Create a standalone Dynamic Web project or add it to a new or existing Enterprise Application.

Project name: RegistrationDemo1

Project location

☒ Use default location

Location: /home/madhuri/workspace/RegistrationDemo1 Browse...

Target runtime

Red Hat JBoss EAP 7.0 Runtime New Runtime...

Dynamic web module version

3.1

Configuration

Default Configuration for Red Hat JBoss EAP 7.0 Runtime Modify...

A good starting point for working with Red Hat JBoss EAP 7.0 Runtime runtime. Additional facets can later be installed to add new functionality to the project.

EAR membership

☐ Add project to an EAR

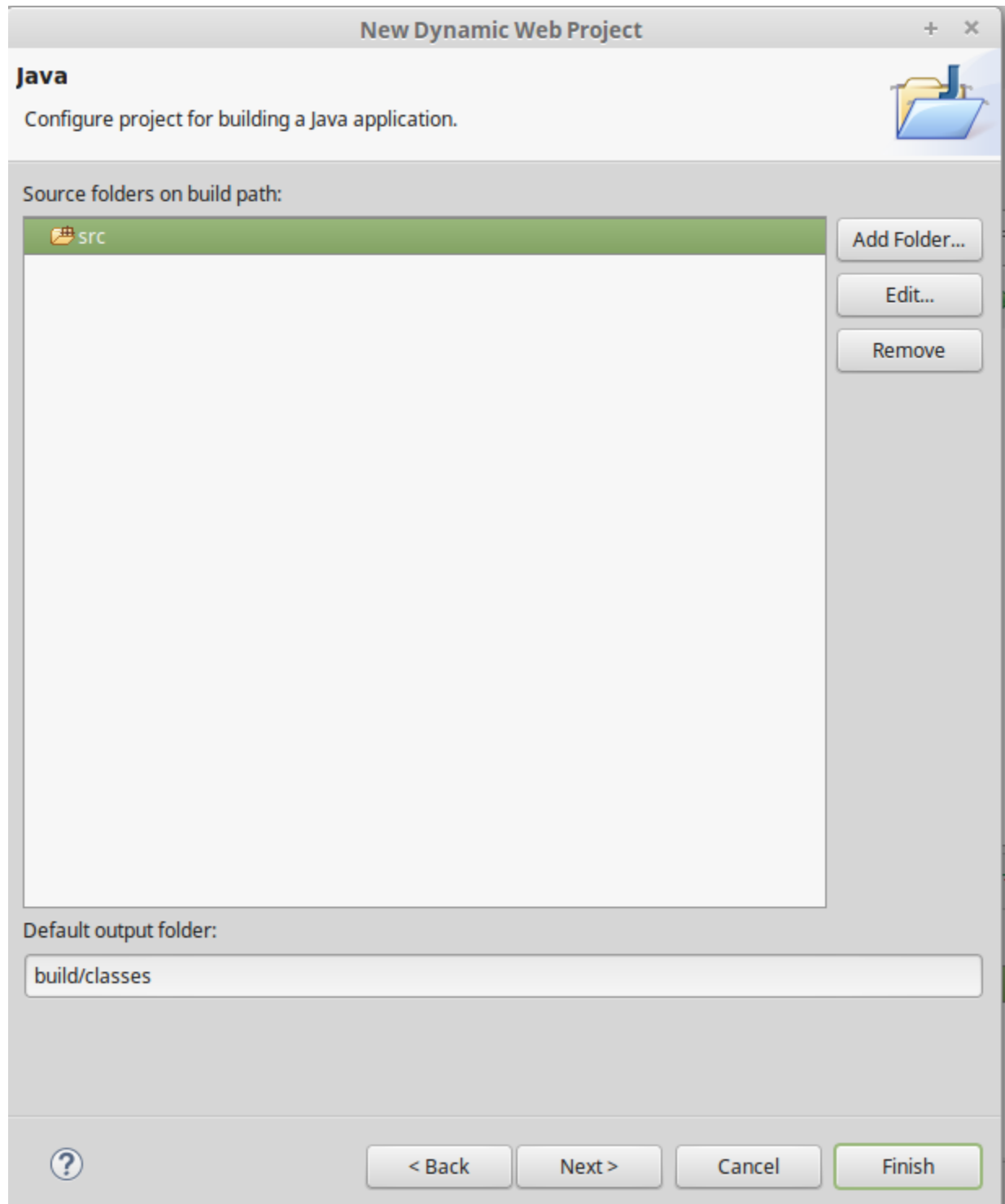
EAR project name: EAR New Project...

Working sets

☐ Add project to working sets New...

? < Back Next > Cancel Finish

Click Next>



Click Next>

New Dynamic Web Project

Web Module
Configure web module settings.

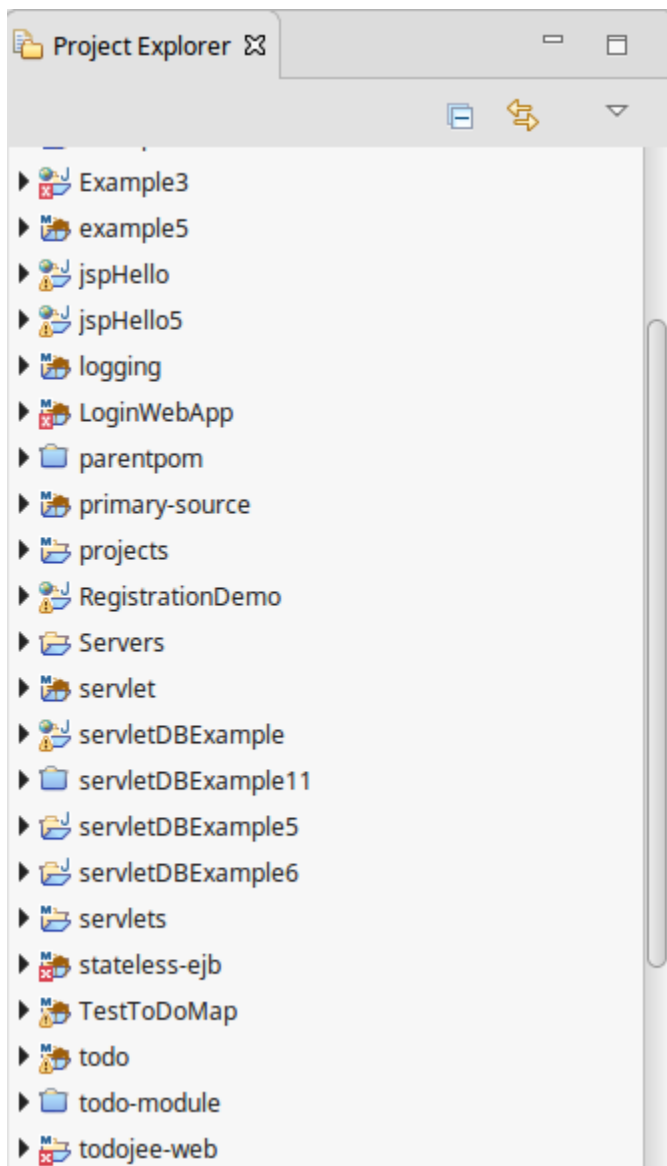
Context root: RegistrationDemo2

Content directory: WebContent

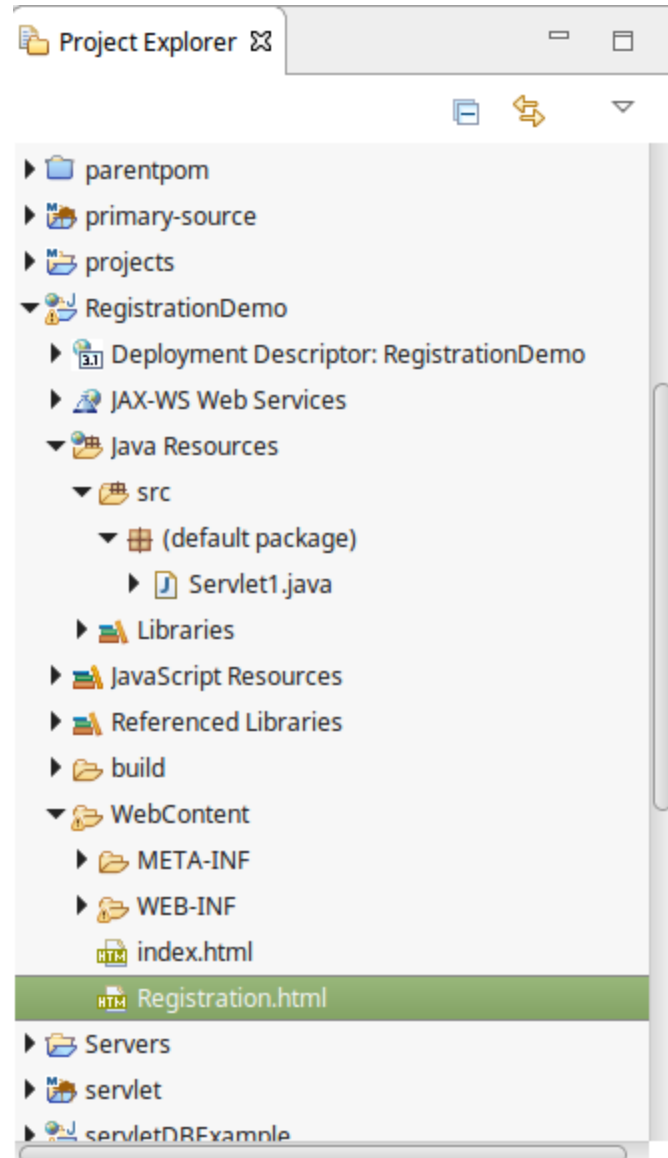
☒ Generate web.xml deployment descriptor

? < Back Next > Cancel Finish

select Generate web.xml deployment descriptor



Create 3 Files
index.html
Registration.html
Servlet1.java



Right Click WebContent → New → HTML File → index.html

Copy and Paste Code

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<a href="Registration.html">Registration</a>
</body>
</html>
```

Right Click WebContent → New → HTML File → Registration.html

Copy and Paste Code

```
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<div style="height:300px;width:300px;margin-top:200px;margin-left:300px;border-
color:red;border-style:solid;border-width:4px;">
<h1>Registration</h1>
<form action="/Servlet1">
<table>
<tr>
<td>Enter the ID:</td>
<td><input type="text" name="id"></td>
</tr>
<tr>
<td>Enter the Name:</td>
<td><input type="text" name="name"></td>
</tr>
<tr>
<td>Enter the Email ID:</td>
<td><input type="email" name="emailid"></td>
</tr>
```

```

<tr>
<td>Select the Country:</td>
<td><select name="country">
<option>India</option>
<option>America</option>
<option>England</option>
</select>
</td>
</tr>
<tr>
<td>Select the Gender:</td>
<td><input type="radio" name="gender" value="male">Male
<input type="radio" name="gender" value="female">Female
</td>
</tr>
<tr>
<td>Submit Information:</td>
<td><input type="submit" value="submit"></td>
</tr>
<tr>
</table>
</form>
</div>
</body>
</html>

```

Right Click src → New → Servlet → Servlet1.java

Copy and Paste Code

```

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;
import java.sql.*;

/**
 * Servlet implementation class Servlet1
 */
@WebServlet("/Servlet1")
public class Servlet1 extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**

```

```

* @see HttpServlet#HttpServlet()
*/
public Servlet1() {
    super();
    // TODO Auto-generated constructor stub
}

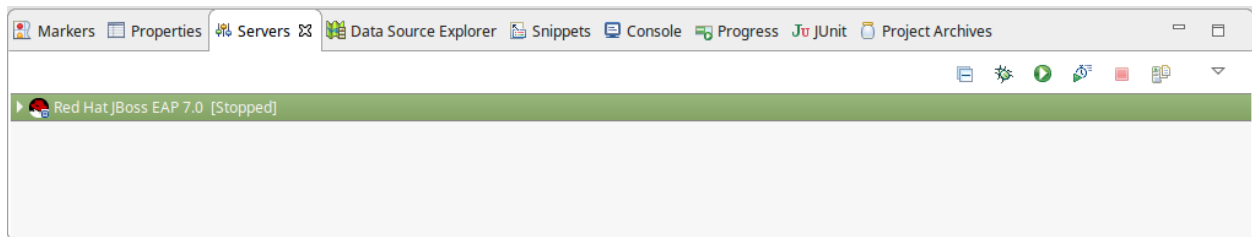
/**
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
 */
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // TODO Auto-generated method stub
    response.getWriter().append("Served at: ").append(request.getContextPath());
    PrintWriter out=response.getWriter();
    String id=request.getParameter("id");
    String name=request.getParameter("name");
    String emailid=request.getParameter("emailid");
    String country=request.getParameter("country");
    String gender=request.getParameter("gender");
    // jdbc code for connectivity with mysql
    try
    {
        Class.forName("com.mysql.jdbc.Driver");
        Connection con =
DriverManager.getConnection("jdbc:mysql://localhost:3306/student","root","root");
        Statement stmt = con.createStatement();
        stmt.executeUpdate("insert into t
values("+id+", '"+name+"', '"+emailid+"', '"+country+"', '"+gender+"')");
        out.print(" Your Record has been successfully inserted");
    }
    catch(Exception p)
    {

    }
}

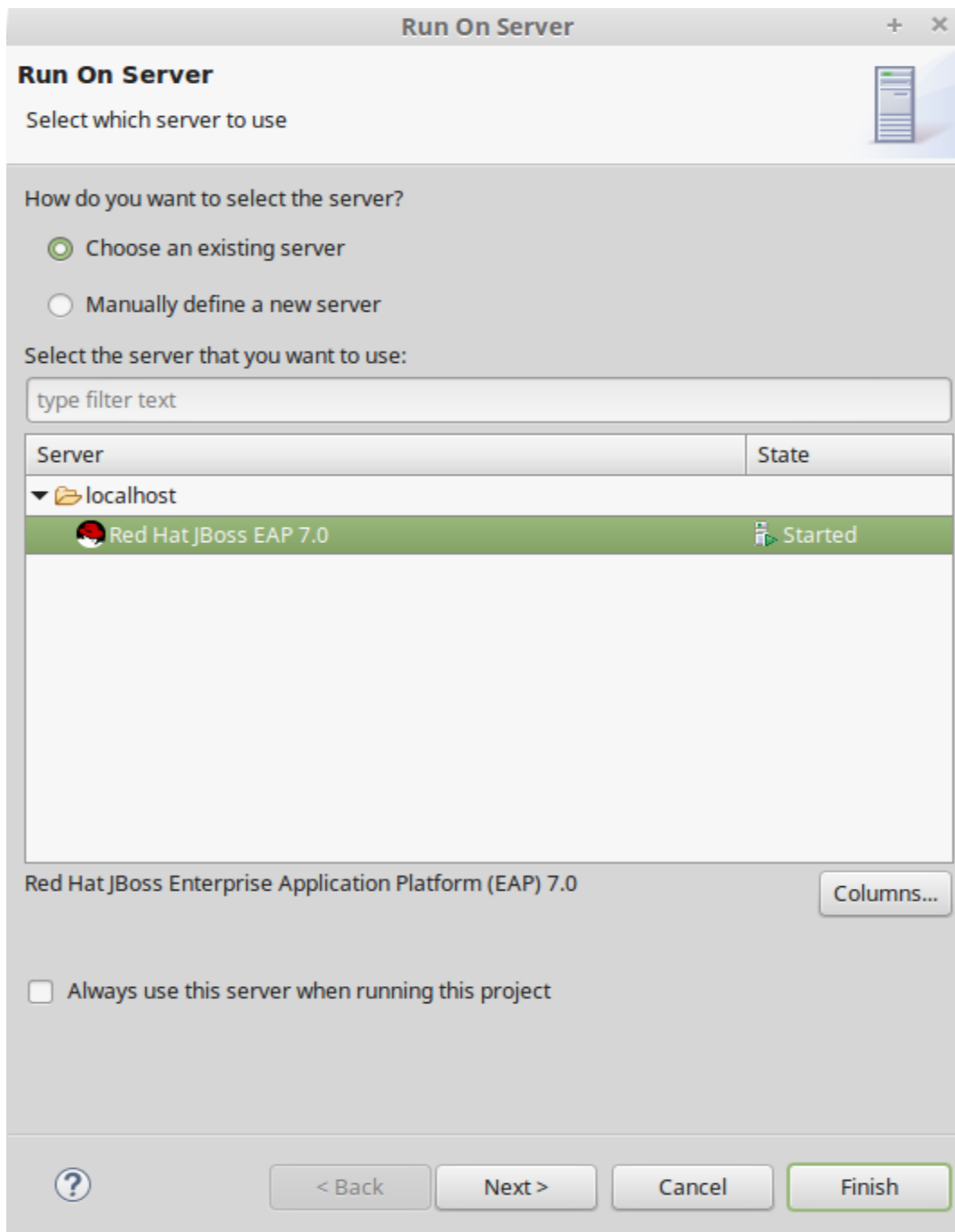
/**
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
 */
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // TODO Auto-generated method stub
    doGet(request, response);
}

```

Click Servers Tab



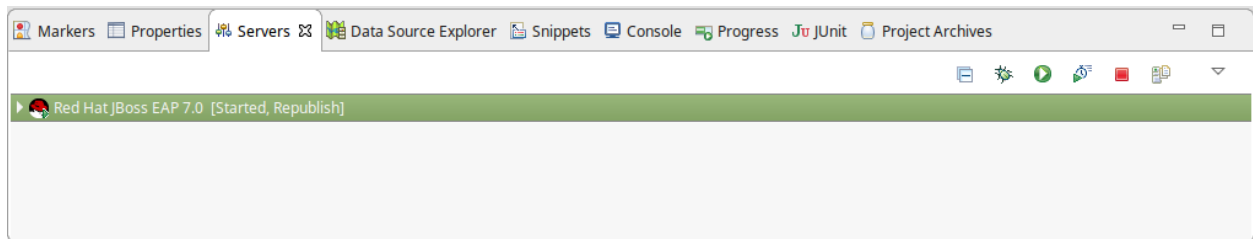
Right Click Red Hat JBoss EAP 7.0 [Stopped] → Start



Select Red Hat JBoss EAP 7.0

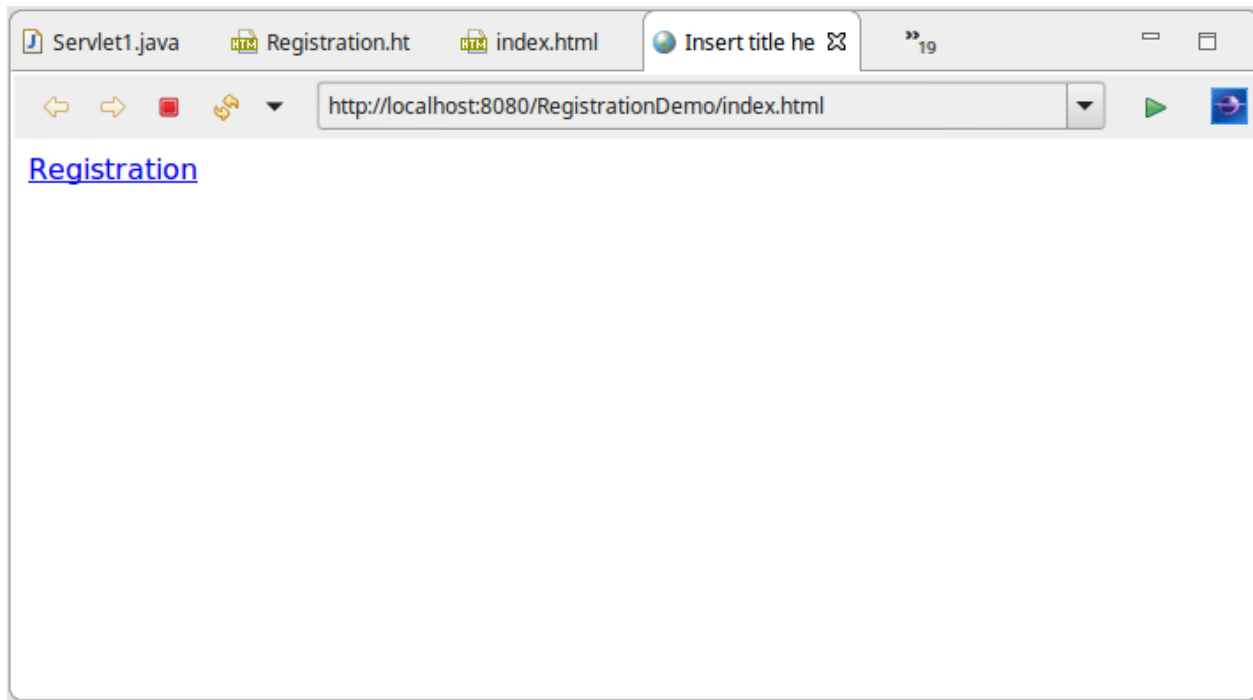
Click Next>

Click Finish



Server is Started

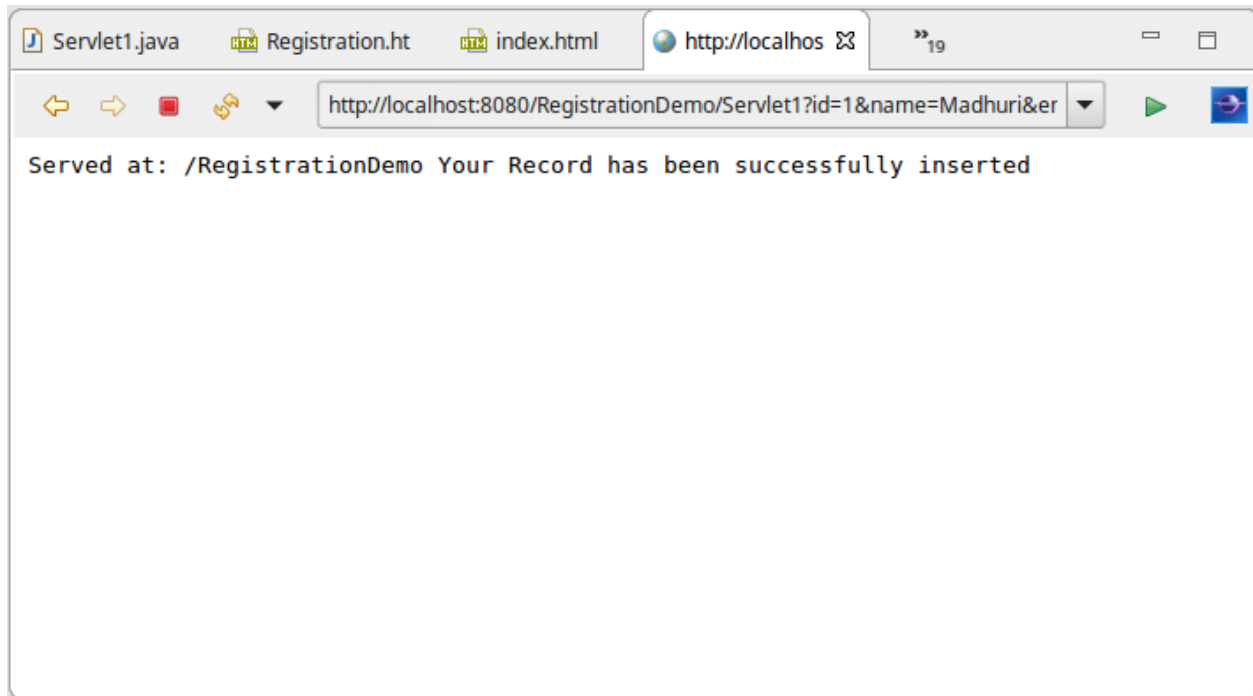
Right Click index.html → Run As → 1 Run on Server



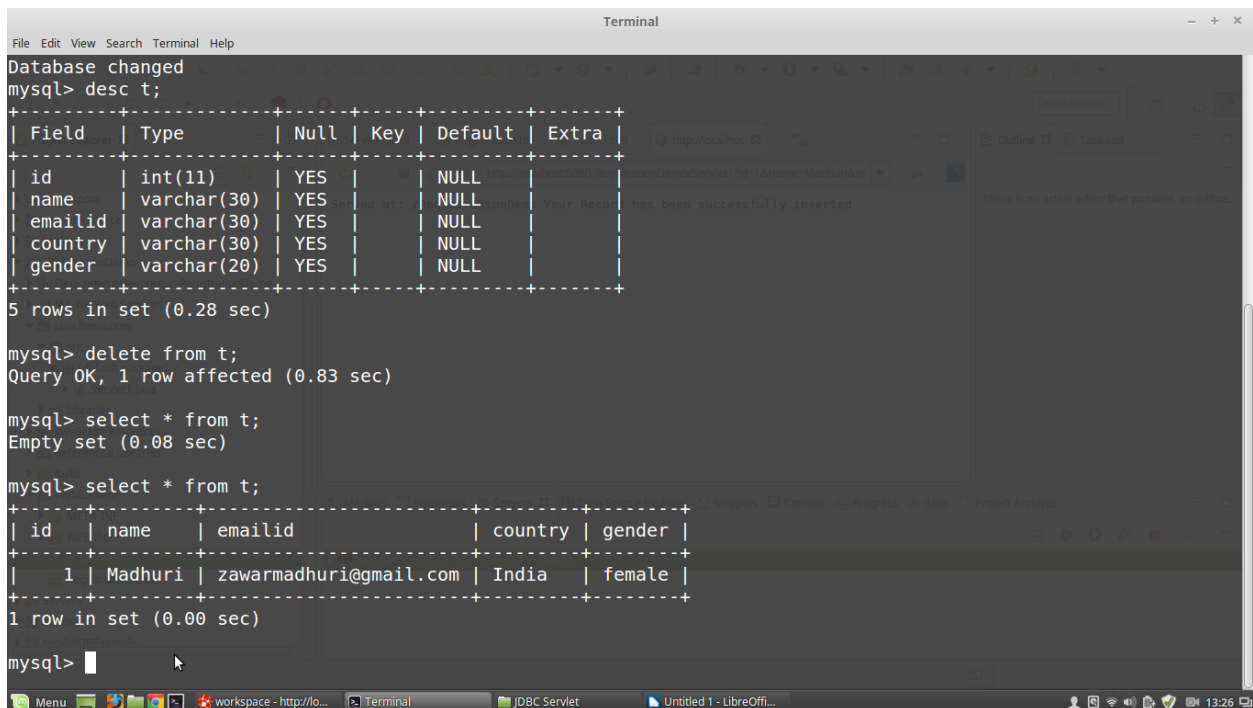
Click Registration

A screenshot of a web browser window showing the 'Registration.html' page. The address bar shows 'http://localhost:8080/RegistrationDemo/Registration.html'. The form is titled 'Registration' in bold black text. It contains several input fields and a submit button, all enclosed in a red rectangular box. The form fields are: 'Enter the ID:' with a text box containing '1'; 'Enter the Name:' with a text box containing 'Madhuri'; 'Enter the Email ID:' with a text box containing 'zawarmadhuri@gmail.com'; 'Select the Country:' with a dropdown menu showing 'India'; 'Select the Gender:' with radio buttons for 'Male' and 'Female', where 'Female' is selected; and a 'Submit' button labeled 'submit'.

Fill Information in form
Click submit



select * from t;
Command in MYSQL



Row is inserted in the table in MYSQL

Conclusion:-
