#### Practical No. 9(a)

Q. Develop simple EJB application to demonstrate servlet hit count using Singleton Session Beans.

#### index.html

```
<html>
<head>
<title>TODO supply a title</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="Refresh" content="0; URL=ServletClient">
</head>
<body>
<div>TODO write content</div>
</body>
</html>
```

## CountServletHitsBean.java

```
package ejb;
import javax.ejb.Singleton;

@Singleton
public class CountServletHitsBean {
    private int hitCount;
    public synchronized int getCount()
    {
        return hitCount++;
    }
}
```

#### ServletClient.java

```
package servlet;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
```

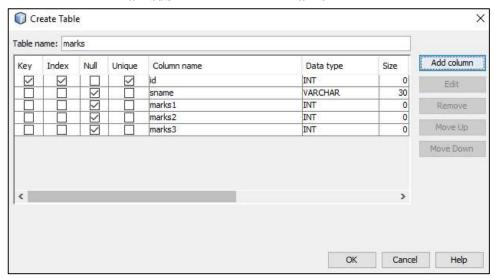
### **Output:**



#### Practical No. 10(a)

# Q. Develop simple Marks Entry Application to demonstrate accessing database using stateful EJB.

Create a database **marksdb** and create a table **marks**.



Add mysql-connector-java-5.1.23-bin.jar file to Library folder of your web application.

## index.jsp

```
<%@page import="mybeans.MarksEntryBean"%>
<%@page import="javax.naming.InitialContext" %>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>

<%!

private static MarksEntryBean obj;
public void jspInit()
{
    try {
        InitialContext ic = new InitialContext();
        obj = (MarksEntryBean)ic.lookup("java:global/P10_a/MarksEntryBean");
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}</pre>
```

```
if(request.getParameter("InsertMarks")!=null)
    String sname:
    int id, marks1, marks2, marks3;
    id = Integer.parseInt(request.getParameter("id"));
    sname = request.getParameter("sname");
    marks1 = Integer.parseInt(request.getParameter("m1"));
    marks2 = Integer.parseInt(request.getParameter("m2"));
    marks3 = Integer.parseInt(request.getParameter("m3"));
    obj.addMarks(id,sname,marks1,marks2,marks3);
    out.println("Marks entered successfully..!!");
%>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h2>Enter Details:</h2>
    <form name="result" method="post">
       Enter Student Id: <input type="text" name="id"><br>
       Enter Student Name: <input type="text" name="sname"><br>
       Enter Subject 1 Marks: <input type="text" name="m1"><br>
       Enter Subject 2 Marks: <input type="text" name="m2"><br>
       Enter Subject 3 Marks: <input type="text" name="m3"><br>
       <input type="submit" name="InsertMarks"/><br>
    </form>
  </body>
</html>
```

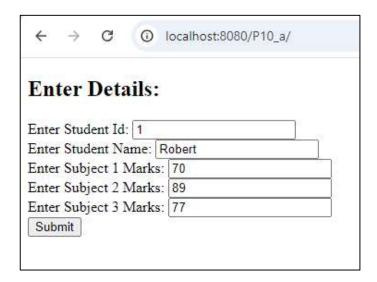
# MarksEntryBean.java

```
package mybeans;
import java.sql.*;
import javax.ejb.Stateful;

@Stateful
public class MarksEntryBean {
    Connection con = null;
    Statement st = null;
    String query = "";
    public void addMarks(int id, String sname, int m1, int m2, int m3)
    {
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
```

```
con = DriverManager.getConnection("jdbc:mysql://localhost:3306/marksdb","root","");
    st = con.createStatement();
    query = "insert into marks(id,sname,marks1,marks2,marks3) values
(""+id+"",""+sname+"",""+m1+"",""+m2+"",""+m3+"")";
    st.executeQuery(query);
    }
    catch(Exception e) {System.out.println(e);}
}
```

## **Output:**



Marks entered successfully!!  Enter Details:  Enter Student Id:  Enter Student Name:  Enter Subject 1 Marks:  Enter Subject 2 Marks:	① localhost:8080/P10_a/	→ C 0
Enter Student Id:  Enter Student Name:  Enter Subject 1 Marks:	essfully!!	entered success
Enter Student Name: Enter Subject 1 Marks:	ls:	r Details:
Enter Subject 1 Marks:		tudent Id:
	e:	tudent Name:
Enter Subject 2 Marks:	rks:	ubject 1 Marks
	rks:	ubject 2 Marks
Enter Subject 3 Marks:	rks:	ubject 3 Marks
Submit	()	t

#	id	sname	marks1	marks2	marks3
1	1	Robert	70	89	77 /