

CRUD Operation Using Servlet

=>open SQL Yog

=> create a DataBase **ServletDBCJSP**

=> create a table emp_reg

	Field Name	Datatype	Len	Default	PK?
*	ecode	int	4		<input checked="" type="checkbox"/>
	ename	varchar	30		<input type="checkbox"/>
	epost	varchar	30		<input type="checkbox"/>
	eaddr	varchar	100		<input type="checkbox"/>
	econt	numeric	10		<input type="checkbox"/>
					<input type="checkbox"/>

Create a new table


Enter new table name

emp_reg

OKCancel

⇒ Open **NetBean**

⇒ Create a new Servlet named as **EmpReg**

 New Servlet ✕

Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

Name and Location

Class Name:

Project:

Location:

Package:

Created File:

```
package crud;

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class EmpReg extends HttpServlet {

    protected void service(HttpServletRequest request, HttpServletResponse
response)

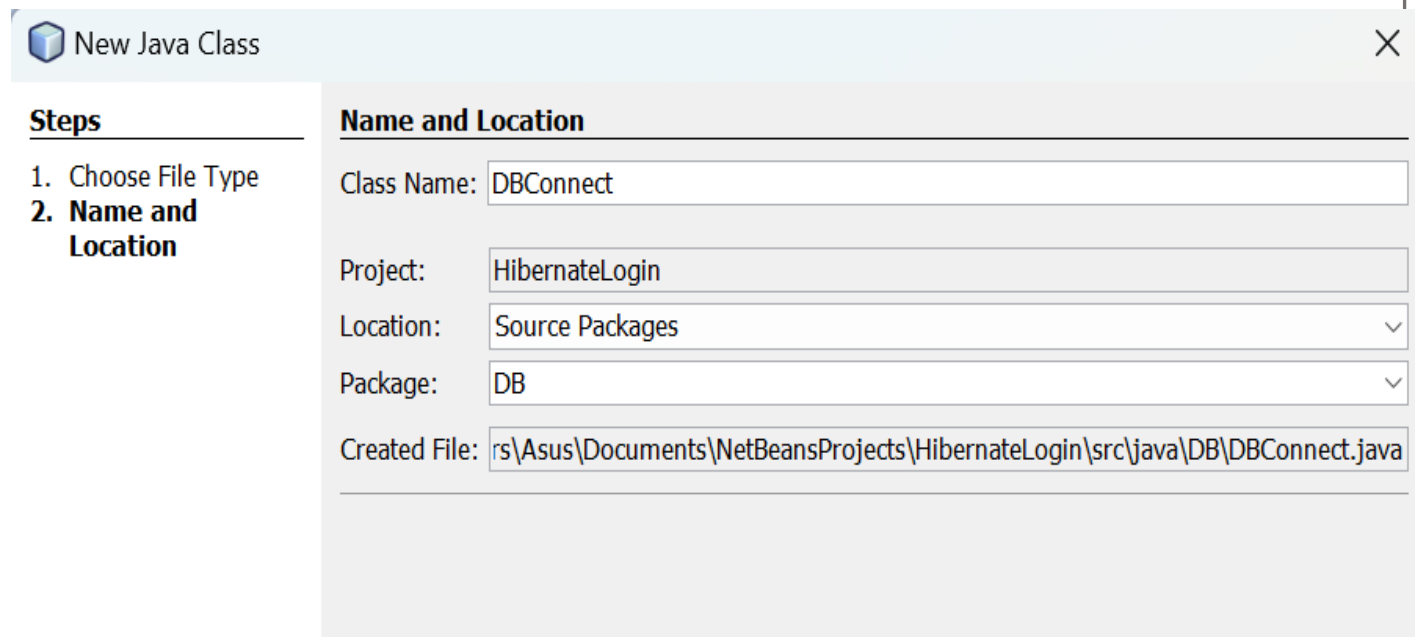
        throws ServletException, IOException {

        response.setContentType("text/html;charset=UTF-8");
```

```
try (PrintWriter out = response.getWriter())
{
    out.println("<!DOCTYPE html>");
    out.println("<html>");
    out.println("<head>");
    out.println("<title>Employee Registration</title>");
    out.println("</head>");
    out.println("<body><center>");
    out.println("<h1>Employee Registration</h1>"
        + "<form action=EmpRegConf>"
        + "<table width=600 border=1 cellpadding=15 cellspacing=0"
        + "bgcolor=lightblue>"
        + "<tr><td width=300>Employee Code</td><td><input type=number"
        + "name=code></td></tr>"
        + "<tr><td width=300>Employee Name</td><td><input type=text"
        + "name=name></td></tr>"
        + "<tr><td width=300>Employee Post</td><td><input type=text"
        + "name=post></td></tr>"
        + "<tr><td width=300>Address</td><td><input type=text"
        + "name=addr></td></tr>"
        + "<tr><td width=300>Contact Number</td><td><input type=number"
        + "name=cont></td></tr>"
        + "<tr><td width=300><input type=submit value=Submit></td><td><input"
        + "type=Reset value=Reset></td></tr>"
        + "</table></form>");
    out.println("</center></body>");
}
```

```
        out.println("</html>");
    }
    catch(Exception e)
    {
        e.printStackTrace();
    }
}
```

Create a New class for Data base Connection named as **DBConnect**



The image shows a 'New Java Class' dialog box with a close button (X) in the top right corner. It is divided into two main sections: 'Steps' and 'Name and Location'. The 'Steps' section on the left lists two steps: '1. Choose File Type' and '2. Name and Location'. The 'Name and Location' section on the right contains several input fields: 'Class Name' with the value 'DBConnect', 'Project' with the value 'HibernateLogin', 'Location' with a dropdown menu showing 'Source Packages', 'Package' with a dropdown menu showing 'DB', and 'Created File' with the path 'rs\Asus\Documents\NetBeansProjects\HibernateLogin\src\java\DB\DBConnect.java'.

Steps	Name and Location
1. Choose File Type	Class Name: DBConnect
2. Name and Location	Project: HibernateLogin
	Location: Source Packages
	Package: DB
	Created File: rs\Asus\Documents\NetBeansProjects\HibernateLogin\src\java\DB\DBConnect.java

```
package DB;


import java.sql.*;

public class DBConnect
{
```

```
public Connection con;
public Statement stmt;
public PreparedStatement pstmt;
public ResultSet rst;
public DBConnect()
{
try
{
Class.forName("com.mysql.jdbc.Driver");
con=DriverManager.getConnection("jdbc:mysql://localhost:3306/servletjdbcjsp",
"root","root");
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

Add jdbc Driver

⇒ Create new Servlet named as **EmpRegConf**

 New Servlet ×

Steps	Name and Location
1. Choose File Type	Class Name: <input type="text" value="EmpRegConf"/>
2. Name and Location	Project: <input type="text" value="ServletJDBCJSP"/>
3. Configure Servlet Deployment	Location: <input type="text" value="Source Packages"/>
	Package: <input type="text" value="crud"/>
	Created File: <input type="text" value="projects\\ServletJDBCJSP\\src\\java\\crud\\EmpRegConf.java"/>

package crud;

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class EmpRegConf extends HttpServlet {
    protected void service(HttpServletRequest request, HttpServletResponse
response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter())
        {
            String code=request.getParameter("code");
            String name=request.getParameter("name");
            String post=request.getParameter("post");
            String addr=request.getParameter("addr");
            String cont=request.getParameter("cont");
            DB.DBConnect db=new DB.DBConnect();
```

```
db.pstmt=db.con.prepareStatement("insert into emp_reg
values(?,?,?,?,?)");
db.pstmt.setString(1, code);
db.pstmt.setString(2, name);
db.pstmt.setString(3, post);
db.pstmt.setString(4, addr);
db.pstmt.setString(5, cont);
int i=db.pstmt.executeUpdate();
if(i>0)
{
out.println("<h2>Employee Registered Successfully</h2>");
out.println("<a href=EmpReg>back</a>");
}

}
catch(Exception e)
{
e.printStackTrace();
}
}
```