Implementation of CRUD using PreparedStatement Interface

_____

=> PreparedStatement interface allow write Parametrized Query.

Example

Create a Table emp_mstr in existing Data Base (dbmstr)

emp_mstr(ecode,ename,epost,econt,email)

New table in 'dbmstr'

	Field Name	Datatype		Len	Default
	ecode	int	▾	4	
	ename	varchar	▾	20	
	epost	varchar	▾	30	
	econt	numeric	▾	10	
*	email	varchar	▾	40	
			▾		

Create a new table ✕

Enter new table name

emp_mstr|

[OK]   [Cancel]

Create Table...   Advanced Properties...   Preview...   Insert   Delete

New Servlet

Steps

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

Name and Location

Class Name: EmpReg

Project: ServletJdbcJsp1

Location: Source Packages

Package: jdbc2

Created File: s\Asus\Documents\NetBeansProjects\ServletJdbcJsp1\src\java\jdbc2\EmpReg.java

< Back   Next >   Finish   Cancel   Help

Open NetBeanspackage jdbc2;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

```java
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 Page</title>");

      out.println("</head>");

      out.println("<body><center>");

      out.println("<h1>Employee Registration Page</h1>"

          + "<form action=EmpRegConf>"

          + "<table width=400 bgcolor=lightblue border=1 cellpadding=20>"

          + "<tr><td>Employee Code</td><td><input type=number name=code></td></tr>"

          + "<tr><td>Employee Name</td><td><input type=text name=name></td></tr>"

          + "<tr><td>Employee Post</td><td><input type=text name=post></td></tr>"

          + "<tr><td>Employee Contact</td><td><input type=number name=cont></td></tr>"

          + "<tr><td>E Mail Address</td><td><input type=mail name=mail></td></tr>"

    + "<tr><td><input type=submit value=Sumbit></td><td><input type=reset value=Reset></td></tr>"

          + "</table></form>");

      out.println("</center></body>");

      out.println("</html>");

    }

    catch(Exception e)

    {

    e.printStackTrace();

    }
```

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```
    }


}
```

New Servlet   ✕

Steps	**Name and Location**

Steps

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

Name and Location

Class Name: `EmpRegConf`

Project: `ServletJdbcJsp1`

Location: `Source Packages`   ⌄

Package: `jdbc2`   ⌄

Created File: `ojects\ServletJdbcJsp1\src\java\jdbc2\EmpRegConf.java`

[< Back] [Next >] [Finish] [Cancel] [Help]

package jdbc2;

import DB.DBConnection;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

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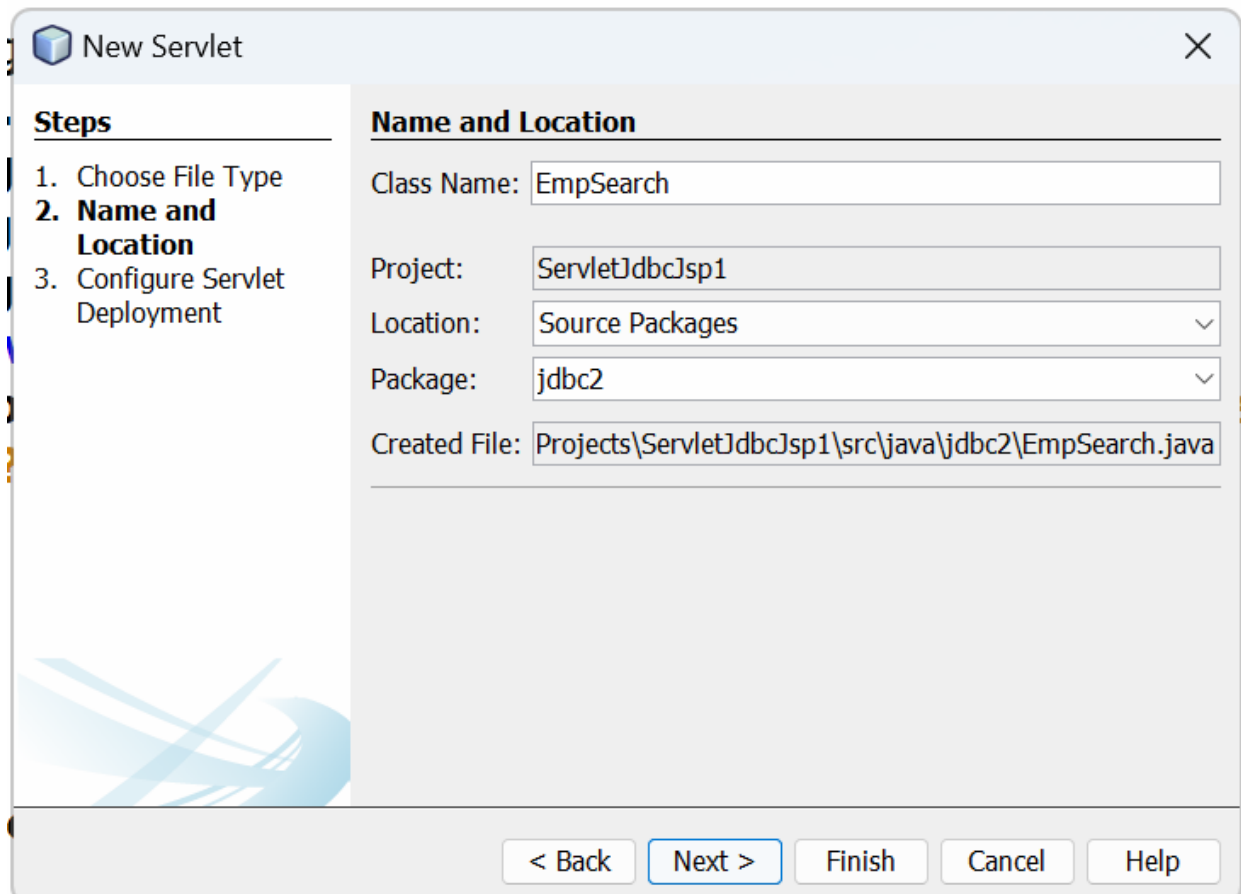
import javax.servlet.http.HttpServletResponse;

```java
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 cont=request.getParameter("cont");

        String mail=request.getParameter("mail");

        DBConnection db=new DBConnection();

        db.pstmt=db.con.prepareStatement("insert into emp_mstr(ecode,ename,epost,econt,email)"

            + " values(?,?,?,?,?)");

        db.pstmt.setString(1, code);

        db.pstmt.setString(2, name);

        db.pstmt.setString(3, post);

        db.pstmt.setString(4, cont);

        db.pstmt.setString(5, mail);

        int i=db.pstmt.executeUpdate();

        if(i>0)

            out.println("Employee Added successfully");

        else

            out.println("Error-------------------");


        }

        catch(Exception e)

        {
```
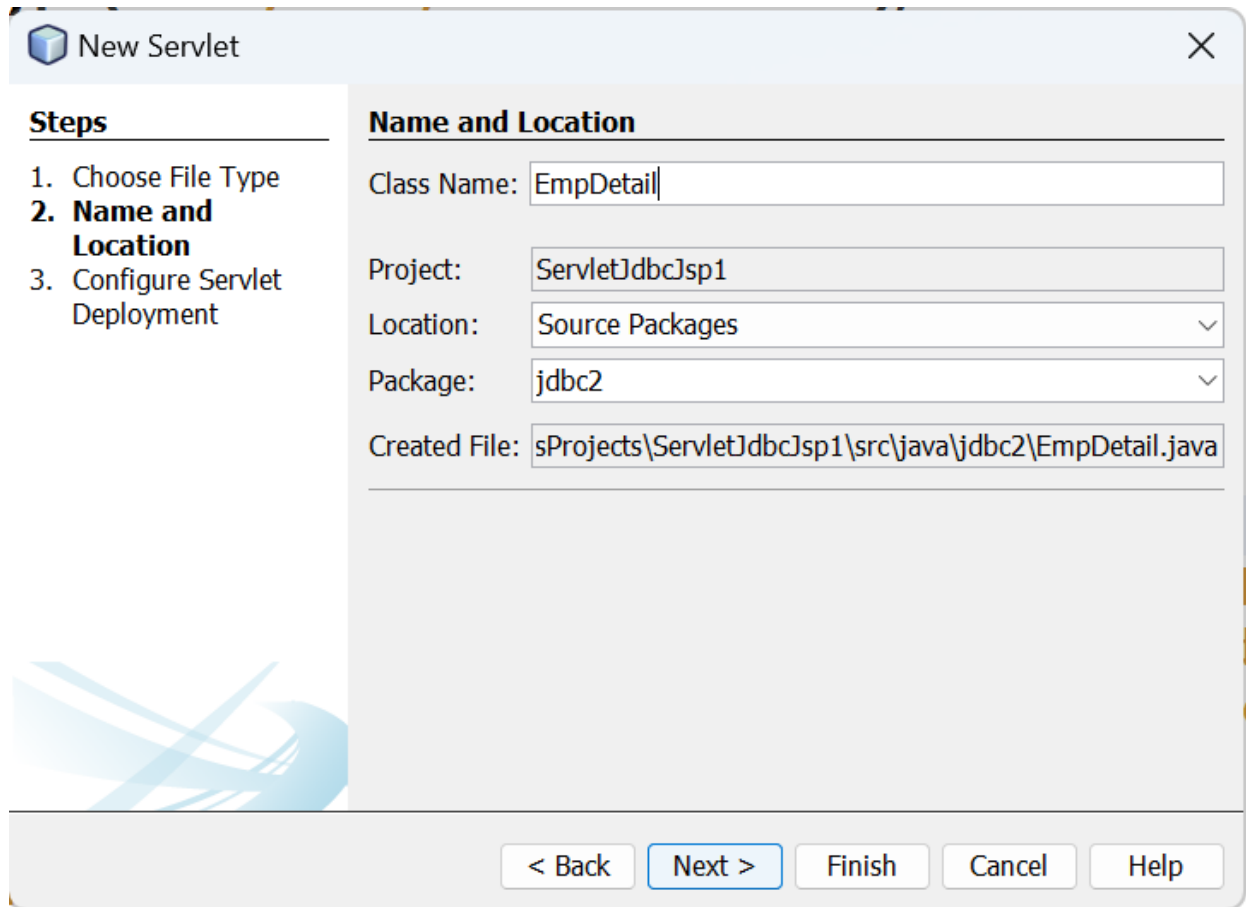
```
        e.printStackTrace();

      }

    }



  }
```



```
package jdbc2;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;
```

```java
import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class EmpSearch 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>EmpSearch</title>");

        out.println("</head>");

        out.println("<body><center>");

        out.println("<h1>Employee Search Detail</h1>"

            + "<form action=EmpDetail>"

            + "<table width=400 cellpadding=30 border=1 bgcolor=lightgrey>"

   + "<tr><td>Employee Code</td><td><input type=number name=code></td></tr>"

   + "<tr><td><input type=submit Value=Search></td><td><input type=reset value=Reset></td></tr>"

            + "</form>");

        out.println("</center></body>");

        out.println("</html>");

      }

    }


}
```

New Servlet   ✕

| **Steps** | **Name and Location** |

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

Class Name: EmpDetail

Project: ServletJdbcJsp1

Location: Source Packages   ⌄

Package: jdbc2   ⌄

Created File: sProjects\ServletJdbcJsp1\src\java\jdbc2\EmpDetail.java

< Back   Next >   Finish   Cancel   Help

/*

 * To change this license header, choose License Headers in Project Properties.

 * To change this template file, choose Tools | Templates

 * and open the template in the editor.

 */

package jdbc2;

import DB.DBConnection;

import java.io.IOException;

import java.io.PrintWriter;

```java
import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


public class EmpDetail extends HttpServlet {

    public 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>Servlet EmpDetail</title>");

        out.println("</head>");

        out.println("<body><center>");

       String code=request.getParameter("code");

        DBConnection db=new DBConnection();

        db.pstmt=db.con.prepareStatement("select * from emp_mstr where ecode=?");

        db.pstmt.setString(1, code);

        db.rst=db.pstmt.executeQuery();

        if(db.rst.next())

        {

         out.println("<h1>Employee Search Detail</h1>"

             + "<form action=EmpUpdateDelete>"

             + "<table width=400 cellpadding=20 border=1 bgcolor=lightgrey>"

 + "<tr><td>Employee Code</td><td><input type=number name=code
value='"+db.rst.getString(1)+"'></td></tr>"
```

```
 + "<tr><td>Employee Name</td><td><input type=text name=name
value='"+db.rst.getString(2)+"'></td></tr>"

 + "<tr><td>Employee Post</td><td><input type=text name=post
value='"+db.rst.getString(3)+"'></td></tr>"

 + "<tr><td>Employee Contact</td><td><input type=number name=cont
value='"+db.rst.getString(4)+"'></td></tr>"

 + "<tr><td>Employee E Mail</td><td><input type=text name=mail
value='"+db.rst.getString(5)+"'></td></tr>"

 + "<tr><td><input type=submit Value=Update name=opr></td><td><input type=submit value=Delete
name=opr></td></tr>"

                + "</form>");
        }
        else
        {
         out.println("<h2>Record does not Match</h2>");
        }
        out.println("</body>");
        out.println("</html>");
      }
      catch(Exception e)
      {
        e.printStackTrace();
      }
   }


}
```