









목 차 CONTENTS

- (1) 프로젝트 생성
- (2)화면 구현
- (3) 기능 구현
- (4)실행



(1)프로젝트 생성

프로젝트명 : BookStore

Was: Tomcat9

DB : java1_bookstore

개발도구 : Eclipse, Workbench

```
→ W > BookStore [JSP main]

  > 🔓 Deployment Descriptor: BookStore
  > A JAX-WS Web Services
  > Java Resources
    🗸 🔄 > main
         🍃 java

→ Para > webapp

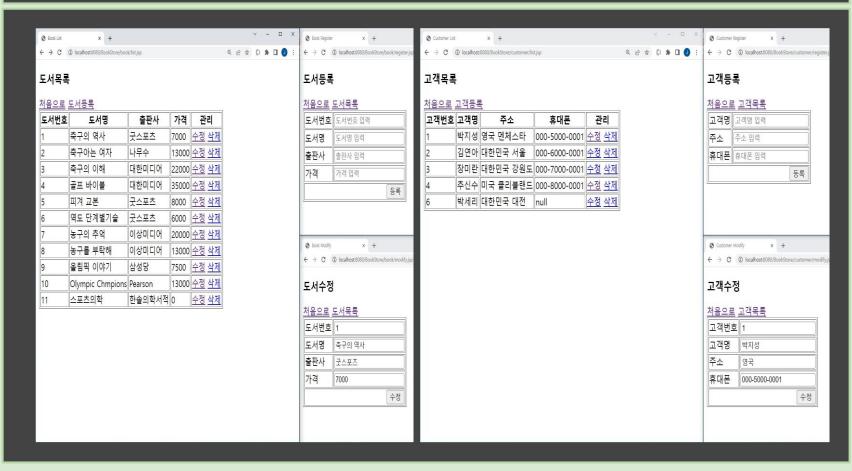
         V 🎘 > book
              list_jsp
              modify.jsp
              register.jsp

✓ En > customer

              list_jsp
              modify.jsp
              register.jsp
          > 🔄 > META-INF
          > 🔄 > WEB-INF
           index.isp
```



(2)화면 구현





(3)기능 구현 DBCP 커넥션 풀 생성

```
DBCP.java X
x context.xml ×
            type = "javax.sql.DataSource"
                                                                                                1 package config:
            driverClassName = "com.mysql.ci.jdbc.Driver"
            url = "idbc:mysgl://127.0.0.1:3306/iava1 shop"
                                                                                               3º import java.sgl.Connection:
            username = "root"
            password = "1234"
                                                                                              11 public class DBCP
            maxTotal = "8"
            maxIdle = "8"
            maxWaitMillis = "3000"
                                                                                                      Context initCtx = new InitialContext();
                                                                                                      Context ctx = (Context)initCtx.lookup("java:comp/env");
            name = "dbcp java1 board"
            auth = "Container"
                                                                                                      DataSource ds = (DataSource)ctx.lookup "dbcp_java1_bookstore"
                                                                                                      return ds.getConnection();
            driverClassName = "com.mysql.ci.idbc.Driver"
            username = "java1 board"
            password = "1234"
            maxTotal = "8"
            maxIdle = "8"
            maxWaitMillis = "3000"
            name = "dbcp_java1_bookstore"
            driverClassName = "com.mysql.cj.jdbc.Driver"
            username = "root"
            password = "1234"
            maxTotal = "8"
            maxIdle = "8"
            maxWaitMillis = "3000"
```



(3)기능 구현 Bean 클래스 생성

```
    ■ Book.java ×

☑ Customer.java ×
                                                                        1 package bean:
   1 package bean;
                                                                           public class Customer {
 99 public String getBookId() {
                                                                            public String getCustId() {
12<sup>●</sup> public void setBookld(String bookld) {
        this.bookld = bookld;
                                                                               this.custld = custld;
150 public String getBookName() {
        this.bookName = bookName;
        this.publisher = publisher:
27 public String getPrice() {
                                                                       270 public String getPhone() {
                                                                               this.phone = phone:
34 }
```



(3)기능 구현 list

```
■ list.jsp ×

■ *list.jsp ×
     IN-1997 A CMPsage Import - conrig.uet" >> 0 CMPsage Import - conrig.uet" >> 0 CMPsage Import - java.sql.connection >> 0 CMPsage contenting - java.sql.connection >> 0 CMPsage - java.s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <xepage import= pean.Lustomer %>
<Xepage import="java.util.List"%>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     90 (%
                               List<Book> books = null;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        //DBCP 제작전 출 보실
Connection conn = DBCP.getConnection();
Statement stmt = conn.createStatement();
ResultSet rs = stmt.executeQuery("SELECT * FROM "customer");
//리스트에 bean파일을 이용하여 rs값을 추가
                                              Statement stmt = conn.createStatement();
                                              books = new ArrayList<>();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cust = new ArrayList<>();
                                                             Book bean = new Book();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Customer bean = new Customer();
                                                               bean.setBookId(""+rs.getInt(1));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bean.setCustId(""+rs.getInt(1));
                                                               bean.setBookName(rs.getString(2));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bean.setName(rs.getString(2));
                                                               bean.setPublisher(rs.getString(3));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          bean.setAddress(rs.getString(3)):
                                                             bean.setPrice(""+rs.getInt(4));
books.add(bean);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        bean.setPhone(rs.getString(4));
cust.add(bean);
                                              rs.close();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rs.close();
                                              stmt.close();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            stmt.close();
                                             conn.close():
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            conn.close():
                               }catch(Exception e){
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              }catch(Exception e){
                                              e.printStackTrace();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            e.printStackTrace();
                                                 <title>Book List</title>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <title>Customer List</title>
                            (ha)>도서목록</h3>
   400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                            (a) href="../index.jsp">처음으로</a>
<a href="../register.jsp">치음으로</a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                450
                                                                           **

*th>도서번호
*th>도서명 **

*th>도서명 **

*th>출판사 **

*th>가격 **

*th>관리 **

*th>관리 **

*th>관리 **

*th>관리 **

*th>관리 **

*th>관리 **

*th>**

*t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        《th》고객번호《/th》
《th》고객명《/th》
《th》주소《/th》
                                                               <% for(Book bean:books) { %> <!─ 반복문을 이용해 List 출력 -->

《 for(Customer bean : cust) ( ※ < 1 -- 반복문을 이용해 List 클릭 → )
</p>
                                                                               <%= bean-getBookId() %>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <%= bean.getCustId() %>
                                                                               <%= bean.getBookName() %>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <%= bean.getName() %></td
                                                                             <%= bean.getPublisher() %>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <%= bean.getAddress() %>
                                                                               <%= bean.getPrice() %>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <%= bean.getPhone() %>
                                                                                           a href="modify.jsp?bookId=<%= bean.getBookId() %> "수정</a>
<a href="delete.jsp?bookId=<%= bean.getBookId() %> "수점 </a>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <a href="./modify.jsp?custId=<%= bean.getCustId() %> "수정</a>
<a href="./delete.jsp?custId=<%= bean.getCustId() %> "소색</a>
```

SELECT문을 이용하여 찾은 데이터를 List에 담아 반복문으로 출력



실행 화면 list

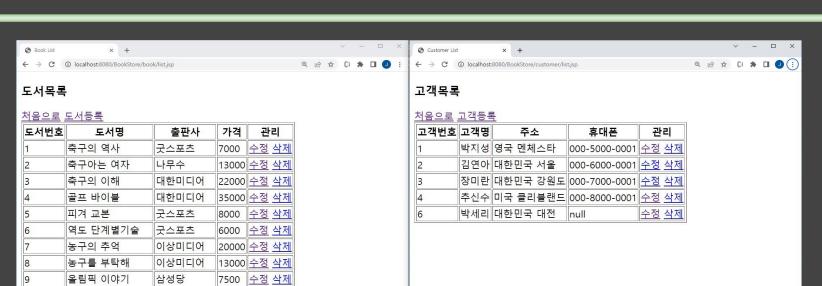
Olympic Chmpions Pearson

스포츠의학

13000 <u>수정</u> <u>삭제</u>

수정 삭제

한솔의학서적 0





(3)기능 구현 register

```
■ register.jsp ×

☐ register.jsp ×

1 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                                          <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
2 <!DOCTYPE html>
 30 (html)
                                                                                                        30 khtml>
 e head
         <title>Book Register</title>
                                                                                                                 <title>Customer Register</title>
         (h3)도서등록</h3>
                                                                                                                (h3)고객등록</h3>
         <a href="../index.jsp">처음으로</a>
<a href="./list.jsp">도서목록</a>
                                                                                                                <a href="../index.jsp">처음으로</a>
<a href="./list.jsp">고객목록</a>
                                                                                                       120
130
            130
                                                                                                                    140
                                                                                                       146
                  도서번호
                                                                                                                          (td) 고객명 (td)
                   <input type="number" name="bookId" placeholder="도서性意 智慧">
                                                                                                                           <input type="text" name="name" placeholder="고객명 일립">
180
                                                                                                       180
                   <input type="text" name="bookWame" placeholder="도서명 일립">
                                                                                                                           <input type="text" name="address" placeholder="주소 입력">
220
                                                                                                       220
                   (td)<input type="text" name="publisher" placeholder="香平林 21首">
                                                                                                                          《td》《input type="text" name="phone" placeholder="京대書 曾母"》《/td》
260
                                                                                                       260
                                                                                                       270
                                                                                                                           <input type="number" name="price" placeholder="가격 일괄">
                                                                                                                              300
                      34 (html)
```

register.jsp에서 정보를 받아 registerProc.jsp으로 전송



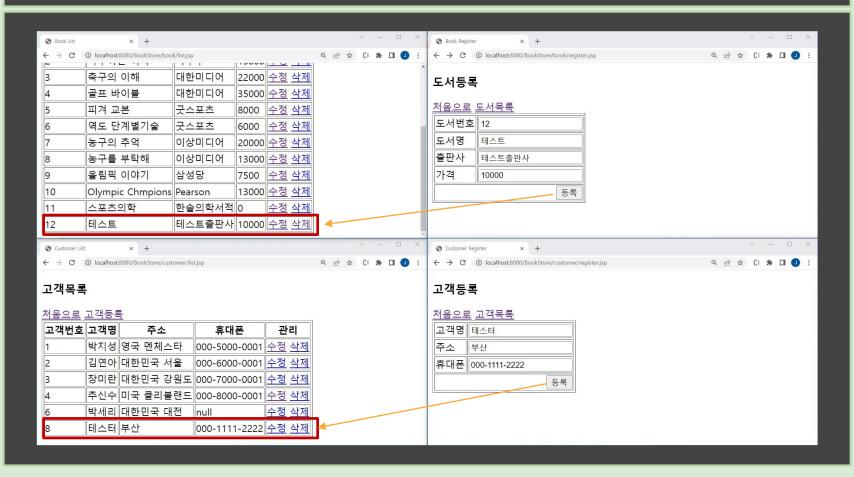
(3)기능 구현 registerProc

```
☐ registerProc.jsp ×
           register.jsp
                                                                                                                                       register.jsp
                                                                                                                                                       ☐ registerProc.jsp ×
                                                                                                                           1 kX@page import="java.sql.PreparedStatement"%
1 <%@page import="java.sql.PreparedStatement %D
2 <%@page import="config.DBCP"%>
                                                                                                                           2 <%@page import="config.DBCP"%>
3 <%@page import="java.sql.Connection"%>
                                                                                                                           3 <%@page import="java.sql.Connection"%>
4 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                                                           4 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                                                           50 4%
       request.setCharacterEncoding("UTF-8");
                                                                                                                                   request.setCharacterEncoding("UTF-8");
      String bookId = request.getParameter("bookId");
                                                                                                                                  String name = request.getParameter("name");
      String bookName = request.getParameter("bookName");
                                                                                                                                  String address = request.getParameter("address");
      String publisher = request.getParameter("publisher");
                                                                                                                                  String phone = request.getParameter("phone");
      String price = request.getParameter("price");
                                                                                                                                      Connection conn = DBCP.getConnection();
          Connection conn = DBCP.getConnection();
                                                                                                                                      String sql = "INSERT INTO customer SET name =?, address =?, phone =?";
          String sql = "INSERT INTO book VALUES (?,?,?,?)";
                                                                                                                                      PreparedStatement psmt = conn.prepareStatement(sql);
          PreparedStatement psmt = conn.prepareStatement(sql);
                                                                                                                                      psmt.setString(1, name);
          psmt.setString(1, bookId);
                                                                                                                                      psmt.setString(2, address);
          psmt.setString(2, bookName);
                                                                                                                                     psmt.setString(3, phone);
          psmt.setString(3, publisher);
                                                                                                                                      psmt.executeUpdate();
          psmt.setString(4, price);
                                                                                                                                      psmt.close();
          psmt.executeUpdate();
                                                                                                                                      conn.close();
          psmt.close();
                                                                                                                                   }catch(Exception e){
          conn.close();
                                                                                                                                      e.printStackTrace();
      }catch(Exception e){
          e.printStackTrace();
                                                                                                                                  response.sendRedirect("../register.jsp");
      response.sendRedirect("../register.jsp");
```

register.jsp에서 받은 데이터를 INSERT 쿼리문으로 저장한 뒤 register.jsp로 sendRedirect



실행 화면 register





(3)기능 구현 modify

```
modify.jsp ×
  5 Sepage import= java.sqi.Connection %>
6 
* text/html;charset=UTF-8** pageEncoding="UTF-8%">
        request.setCharacterEncoding("UTF-8");
String bookId = request.getParameter("bookId");
             Connection conn = DBCP.getConnection();
             PreparedStatement psmt = conn.prepareStatement("SELECT * FROM 'book' WHERE 'bookId'=?");
psmt.setString(1, bookId);
             ResultSet rs = psmt.executeQuery();
             if(rs.next()){
                 bean = new Book();
                 bean.setBookName(rs.getString(2));
                 bean.setPublisher(rs.getString(3));
                 bean.setPrice(rs.getString(4));
             psmt.close();
            conn.close();
        }catch(Exception e){
            e.printStackTrace():
 29 <!DOCTYPE html>
30 <html>
 310
             <title>Book Modify</title>
                        くtd>도서번호
                         <input type="number" name="bookId" readonly value=<%= bookId %>>
                         <input type="text" name="bookName" value="<%= bean.getBookName() %> ">
                         <input type="text" name="publisher" value="<%= bean.getPublisher() %> ">
```

```
modify.jsp ×
5 (xepage import- java.sqi.connection %)
6 (%0 page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%)
 70 4
        request.setCharacterEncoding("UTF-8");
        String custId = request.getParameter("custId");
        Customer bean = null;
            Connection conn = DBCP.getConnection();
            PreparedStatement psmt = conn.prepareStatement("SELECT * FROM customer WHERE custId =?");
            if(rs.next()){
   bean = new Customer();
                bean.setName(rs.getString(2))
                bean.setAddress(rs.getString(3))
                bean.setPhone(rs.getString(4));
           psmt.close();
           conn.close();
        }catch(Exception e){
           e.printStackTrace():
380 (html)
310
            <title>Customer Modify</title>
350
400
                        <input type="number" name="custId" readonly value=<%= custId %>>
                        <input type="text" name="name" value=<%= bean.getName() %>>
                        <input type="text" name="address" value=<%= bean.getAddress() %>>
530
580
```

기존의 정보를 불러와서 value값에 삽입 modify.jsp의 정보는 modifyProc.jsp으로 전송



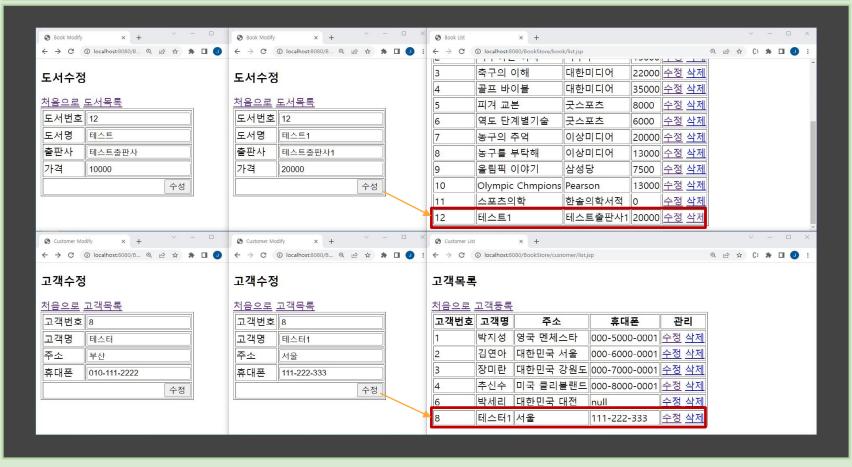
(3)기능 구현 modifyProc

```
modifyProc.jsp X
                                                                                                                           modify.jsp modifyProc.jsp X
modify.jsp
1 <%@page import="java.sql.PreparedStatement"%D
                                                                                                                           1 <%@page import="java.sql.PreparedStatement"%
 2 <%@page import="config.DBCP"%>
                                                                                                                            2 <%@page import="config.DBCP"%>
 3 <%@page import="iava.sgl.Connection"%>
                                                                                                                            3 <%@page import="java.sql.Connection"%>
 4 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                                                           4 <%@ page contentType="text/html:charset=UTF-8" pageEncoding="UTF-8%>
                                                                                                                            50 0%
        request.setCharacterEncoding("UTF-8");
                                                                                                                                   request.setCharacterEncoding("UTF-8");
        String bookId = request.getParameter("bookId");
                                                                                                                                   String custId = request.getParameter("custId");
        String bookName = request.getParameter("bookName");
                                                                                                                                   String name = request.getParameter("name");
        String publisher = request.getParameter("publisher");
                                                                                                                                  String address= request.getParameter("address");
       String price = request.getParameter("price");
                                                                                                                                   String phone = request.getParameter("phone");
            Connection conn = DBCP.getConnection();
                                                                                                                                      Connection conn = DBCP.getConnection();
            String sql = "UPDATE book SET bookName =?, publisher =?, price =? where bookId =?";
                                                                                                                                      String sql = "UPDATE customer SET name =?, address =?, phone =? where custId =?";
            PreparedStatement psmt = conn.prepareStatement(sql);
                                                                                                                                      PreparedStatement psmt = conn.prepareStatement(sql);
            psmt.setString(1, bookName);
                                                                                                                                      psmt.setString(1, name);
            psmt.setString(2, publisher);
                                                                                                                                      psmt.setString(2, address);
            psmt.setString(3, price);
                                                                                                                                      psmt.setString(3, phone);
           psmt.setString(4, bookId);
                                                                                                                                      psmt.setString(4, custId);
            psmt.executeUpdate();
                                                                                                                                      psmt.executeUpdate();
                                                                                                                                      psmt.close();
            psmt.close();
                                                                                                                                      conn.close():
            conn.close();
        }catch(Exception e){
                                                                                                                                   }catch(Exception e){
                                                                                                                                      e.printStackTrace();
            e.printStackTrace();
        response.sendRedirect("../list.jsp");
                                                                                                                                   response.sendRedirect("../list.jsp");
29 %
                                                                                                                           29 %>
```

modify.jsp에서 받은 데이터를 UPDATE 쿼리문으로 수정 뒤 list.jsp로 sendRedirect



실행 화면 modify





(3)기능 구현 delete

```
    ■ modifyProc.jsp  
    ■ delete.jsp ×

                                                                                                         modify.jsp
1 <%@page import="java.sql.Statement'%D
                                                                                             1 <%@page import="java.sql.Statement"%
 2 <%@page import="config.DBCP"%>
                                                                                              2 <%@page import="config.DBCP"%>
 3 <%@page import="java.sql.Connection"%>
                                                                                              3 <%@page import="java.sql.Connection"%>
 4 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
                                                                                              4 <%@ page contentType="text/html;charset=UTF-8" pageEncoding="UTF-8"%>
 50 (%
                                                                                              50 (%
       request.setCharacterEncoding("UTF-8");
                                                                                                    request.setCharacterEncoding("UTF-8");
       String bookId = request.getParameter("bookId");
                                                                                                    String custId = request.getParameter("custId");
           Connection conn = DBCP.getConnection();
                                                                                                        Connection conn = DBCP.getConnection();
           Statement stmt = conn.createStatement();
                                                                                                        Statement stmt = conn.createStatement();
           stmt.executeUpdate("DELETE FROM `book` WHERE `bookId`=" + bookId);
                                                                                                        stmt.executeUpdate("DELETE FROM `customer` WHERE `custId`=" + custId);
           stmt.close();
                                                                                                        stmt.close();
           conn.close();
                                                                                                        conn.close();
       }catch(Exception e){
                                                                                                    }catch(Exception e){
           e.printStackTrace();
                                                                                                        e.printStackTrace();
       response.sendRedirect("./list.jsp");
                                                                                                    response.sendRedirect("./list.jsp");
20 %>
                                                                                             20 %>
```

bookld, custId를 받아 DELETE 쿼리문으로 삭제한 뒤 list.jsp로 sendRedirect



실행 화면 delete

