# Class230113

### 230113

JSP DB연결 방법

mysql

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# JSP MYSQL DB연결 STEP 6

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
   pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
//Step 2 load JDBC Driver
 try {
   Class.forName("com.mysql.jdbc.Driver");
 }catch(ClassNotFoundException err) {
   out.print("JDBC Driver loading error<br>>" + err.getMessage());
// Step 3 create Connection Object
 Connection conn = null;
 try {
   conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/","root","0000");
 }catch(SQLException err) {
   out.print("Connection Object error<br>>" + err.getMessage());
// Step 4 create Statement Object
 PreparedStatement pstmt = conn.prepareStatement("CREATE DATABASE test2");
// Step 5 excute SQL Query
 pstmt.executeUpdate();
// Step 6 close Connection
 pstmt.close();
 conn.close();
```

```
</body>
</html>
```

## **TABLE CREATE**

```
// Step 4 create Statement Object
   String sql = "CREATE TABLE student("
   + "hakbun varchar(10),"
   + "name varchar(10),"
   + "dept varchar(20),"
   + "addr varchar(30),"
   + "primary key(hakbun))";
PreparedStatement pstmt = conn.prepareStatement(sql);
```

### **TABLE INSERT**

```
// Step 4 create Statement Object

String hakbun = request.getParameter("hakbun");
String name = request.getParameter("name");
String dept = request.getParameter("dept");
String addr = request.getParameter("addr");

String sql = "INSERT student VALUES(?, ?, ?, ?)";

PreparedStatement pstmt = conn.prepareStatement(sql);
pstmt.setString(1, hakbun);
pstmt.setString(2, name);
pstmt.setString(3, dept);
pstmt.setString(4, addr);
```

### **TABLE LIST**

```
// Step 4 create Statement Object
   String sql = "SELECT * FROM student";

PreparedStatement pstmt = conn.prepareStatement(sql);

// Step 5 excute SQL Query
   /* pstmt.executeUpdate(); */
```

#### ▼ 중복되는 코드 include

텍스트파일로 만들어서 jsp body 안에

- <%@ include file = "dbconnect.inc" %>
- <%@ include file = "dbclose.inc" %> 포함

#### 1.dbconnect.inc

```
//
// 2 load JDBC Driver
try{
    Class.forName("com.mysql.jdbc.Driver");
}catch(ClassNotFoundException err){
    out.print("JDBC Driver loading error<br/>
}
// com.mysql.jdbc.Driver mysQL8

// 3 create Connection Object
Connection conn = null;

try{
    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/", "root", "0000");
}catch(SQLException err){
    out.print("JDBC Driver loading error<br/>
}
%>
```

#### 2. dbclose.inc

```
// 6 close Connection

pstmt.close();
conn.close();

%>
```

## log in/ logout with session

- 1. 아이디와 비번을 모두 정상적으로 입력한 경우 → 로그인 성공
- 2. 비번이 틀릴 경우 →로그인실패(다시 시도하세요)
- 3. 아이디가 디비에 존재하지 않는 경우

#### LoginForm

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<html>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
<form action="LoginCheck.jsp">

화번: <input type = "text" name="hakbun">
<button type="submit">로그인</button>
</form>
</body>
</html>
```

#### LoginCheck

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
    pageEncoding="UTF-8"%>
<!-- Step 1 import SQL Packages -->
<%@ page import="java.sql.*" %>
<% // 전송 받는 데이터 한글 처리
 request.setCharacterEncoding("UTF-8");
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>
//Step 2 load JDBC Driver
 try {
   Class.forName("com.mysql.jdbc.Driver");
  }catch(ClassNotFoundException err) {
    out.print("JDBC Driver loading error<br>>" + err.getMessage());
```

```
}
 // Step 3 create Connection Object
   Connection conn = null:
  try {
    conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/univ", "root", "0000");
   }catch(SQLException err) {
    // Step 4 create Statement Object
    String hakbun = request.getParameter("hakbun");
    String sql = "SELECT * FROM student WHERE hakbun = ? ";
    PreparedStatement pstmt = conn.prepareStatement(sql);
      pstmt.setString(1, hakbun);
 // Step 5 excute SQL Query
    /* pstmt.executeUpdate(); */
    ResultSet rset = pstmt.executeQuery();
    //DB에서 학번에 해당하는 자료가 있어서 반환되었는지 확인
    //만약에 가져온값이 없으면
    if(!rset.isBeforeFirst()){
      out.print("<script>alert('해당 학번은 존재하지 않습니다.');" + "history.back();"+"</script>");
      return;
    }
    //DB에 있는 경우
    rset.next();
    //DB에서 뽑아온 학번
    String dbhakbun = rset.getString("hakbun");
    String dbname = rset.getString("name");
    //dbhakbun hakbun 값이 같으면 세션을 생성하세요
    //"hakbun" dbhakbun "name" dbname
    //문자열 값을 비교할 때는 반드시 .equals() / 숫자비교는 ==
    if(dbhakbun.equals(hakbun)){
      session.setAttribute("hakbun" , dbhakbun); //세션생성
      session.setAttribute("name" , dbname);
      }
 //Step 6 Close Connection
      rset.close();
      pstmt.close();
      conn.close();
    %>
 </body>
 </html>
```

# JSP에 CLASS 넣기

#### 1.dbconnclose 클래스 생성

```
package jdbc6step;
import java.sql.*;
public class dbconnclose {
  //DB 연결 공통부분 매서드
  public static Connection getConnection() {
    // 2 load JDBC Driver
     Class.forName("com.mysql.jdbc.Driver");
    }catch(ClassNotFoundException err){
        System.out.print("JDBC Driver loading error<br>"+ err.getMessage());
    // com.mysql.jdbc.Driver mySQL용
  // 3 create Connection Object
   Connection conn = null;
     conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/", "root", "0000");
    }catch(SQLException err){
     System.out.print("JDBC Driver loading error<br>or<br/>+ err.getMessage());
    return conn;
  //DB 해제 공통부분 매서드
  public static void closeConnection(PreparedStatement pstmt, Connection conn) {
  // 6 close Connection
   try {
   pstmt.close();
   conn.close();
  }catch(SQLException err) {
     System.out.println("Error" + err.getMessage());
  }
}
```

### 2. jsp파일에 노랗게 표시한 3줄 코드 넣기

```
// 5 execute SQL Query

pstmt.executeUpdate();
dbconnclose.closeConnection(pstmt, conn);
%>
</body>
</html>
```