



## Day27; 20220805(JSP 시작)

🕒 작성일시	@2022년 8월 5일 오전 9:32
▼ 강의 번호	Lesson 27
📅 유형	@2022년 8월 5일
📎 자료	
☑ 복습	<input type="checkbox"/>
☰ 속성	

## SJP

자바 웹개발

sevlet → ( JSP ) → Spring → Spring Boot

SQL Package Import

JDBC driver loading

Connection Object

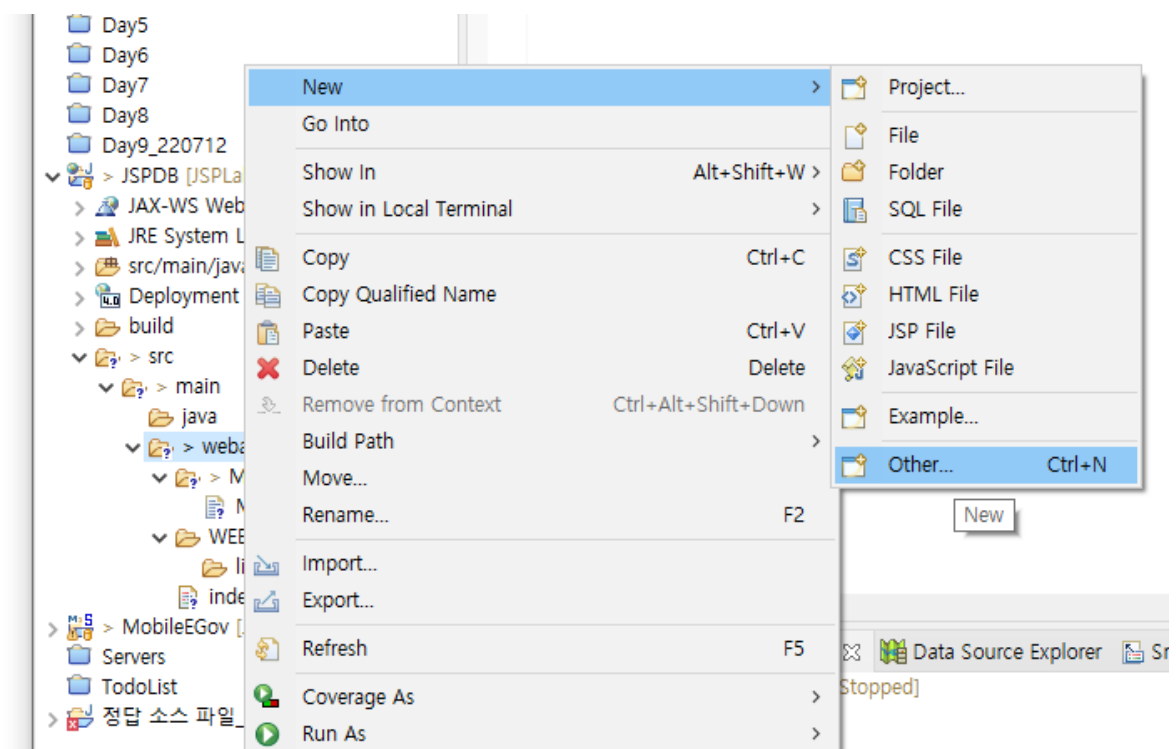
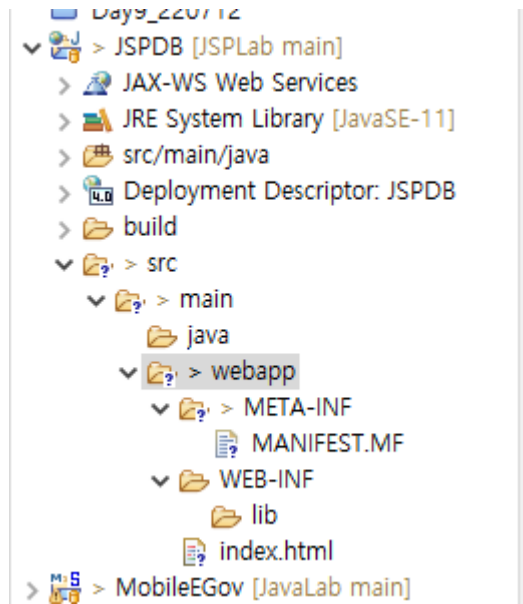
Statement Qbject

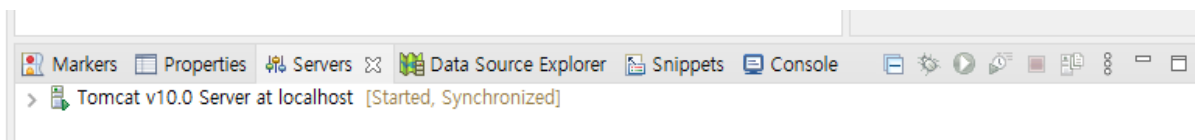
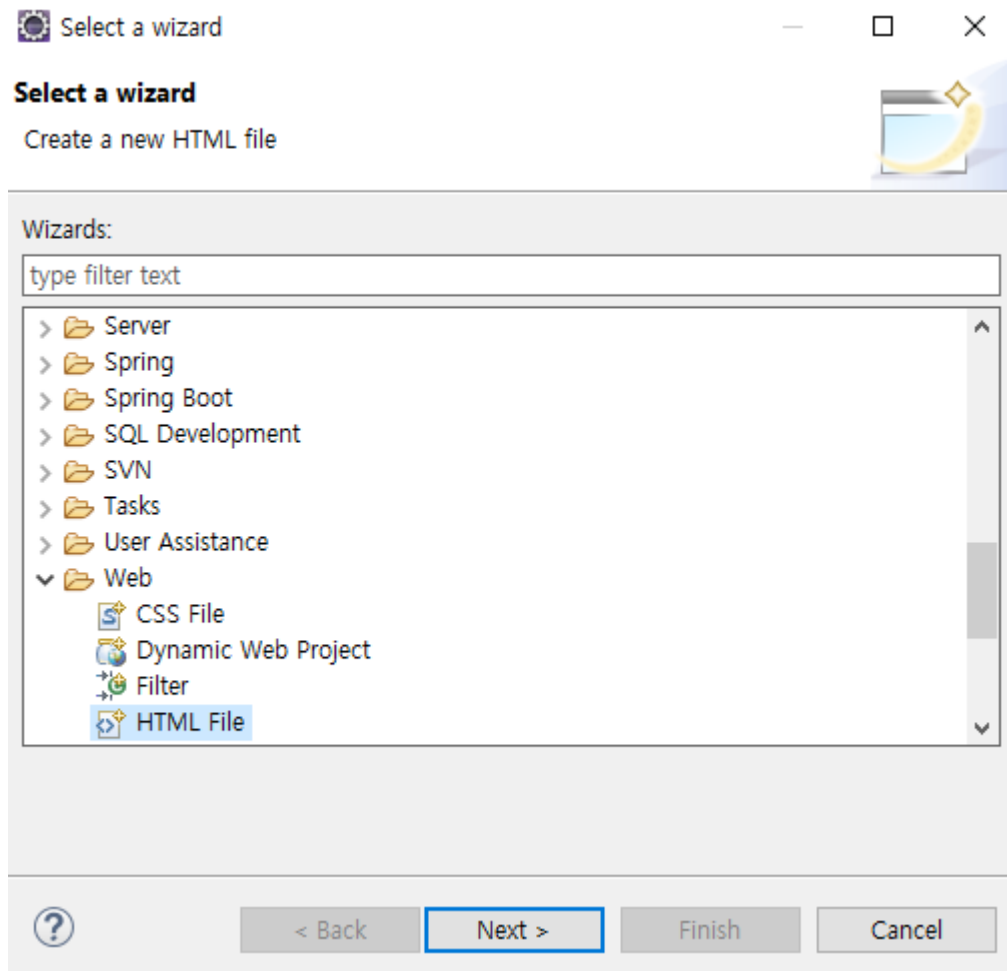
SQL Activate

ResultSet Object

Connection Close

---





기존 8.5 tomcat 삭제하고 새로 tomcat10 들어가서 다운로드 받고 새로 설정을 해주면 됨.

New Server

Define a New Server

Choose the type of server to create

Select the server type:

type filter text

Tomcat v8.5 Server

Tomcat v9.0 Server

Tomcat v10.0 Server

> Basic

> IBM

> Oracle

> Pivotal

Publishes and runs J2EE, Java EE, and Jakarta EE Web projects and server configurations to a local Tomcat server.

Server's host name:localhost

Server name:Tomcat v10.0 Server at localhost

Server runtime environment:Apache Tomcat v10.0Add...  
[Configure runtime environments...](#)

?

< Back

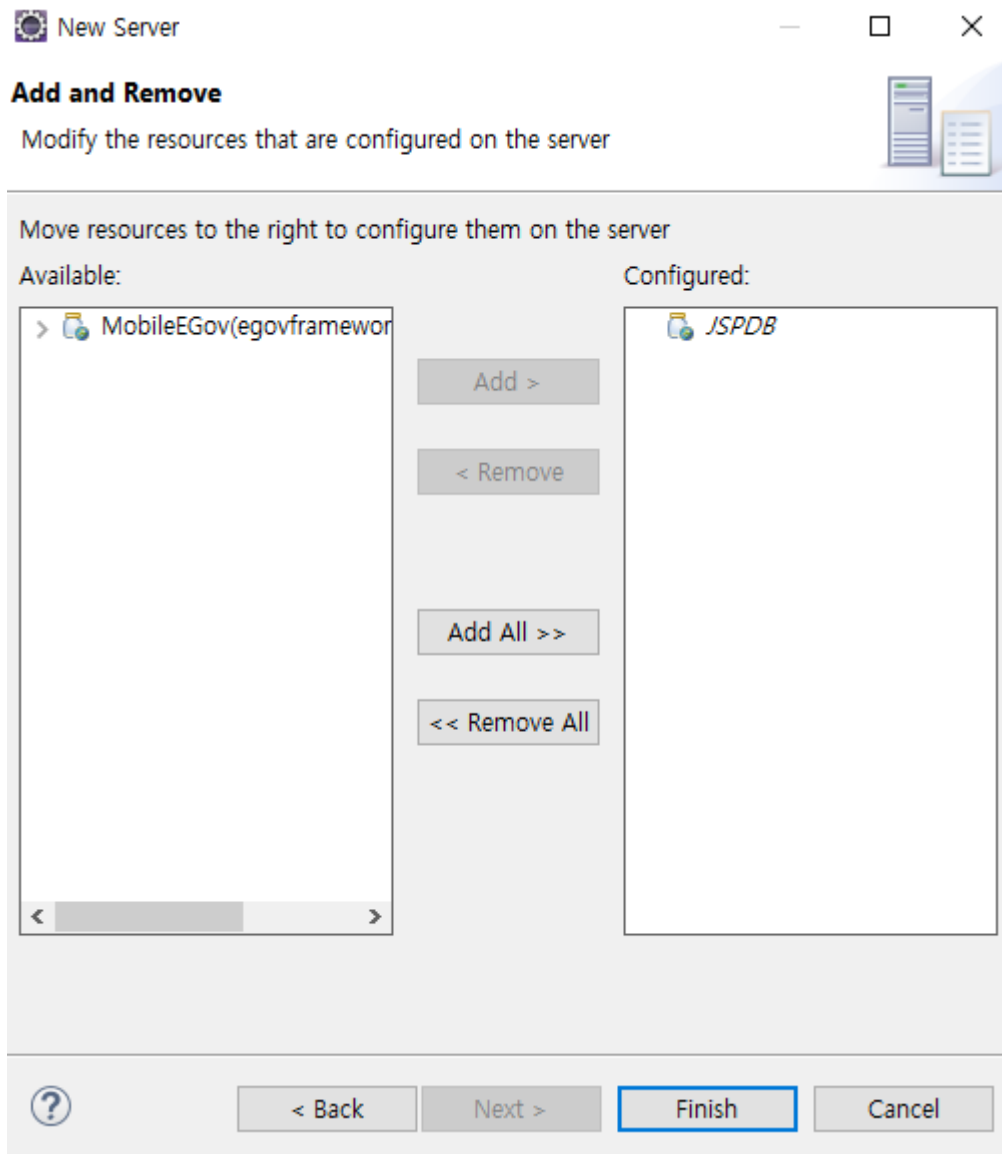
Next >

Finish

Cancel

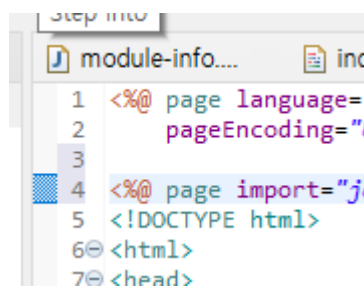
MarkersPropertiesServersData Source ExplorerSnippetsCon

[No servers are available. Click this link to create a new server...](#)

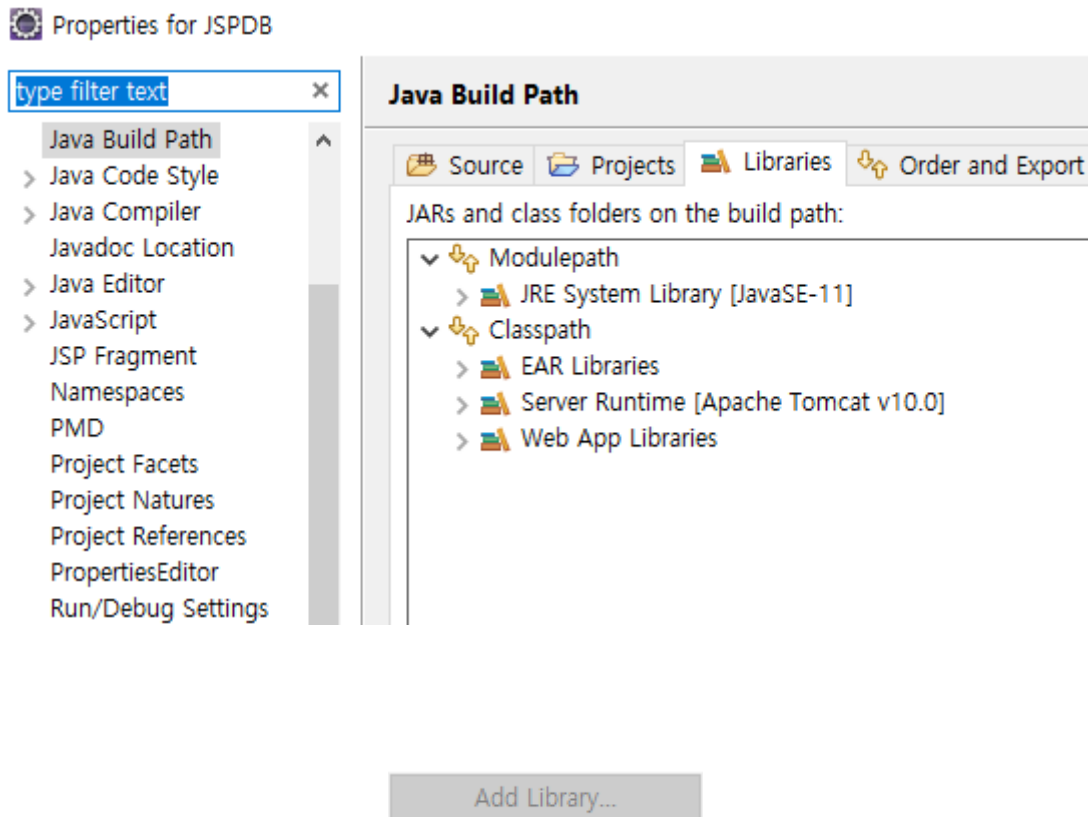


그리고 실행해주면 됨. → run on server

- 이 부분에 x 뜨는 거 없애기 방법



1.버전일 경우 삭제하고 다시 설정.



11버전을 추가시키면 됨.

html영역과 java영역이 나누어짐.



```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2   pageEncoding="UTF-8"%>
3
4 <%@ page import="java.sql.*" %>
5 <%
6   // SQL 패키지 import
7 %>
8 <!DOCTYPE html>
9 <html>
10 <head>
11   <meta charset="UTF-8">
12   <title>SQL package import</title>
13 </head>
14 <body>
15 <%
16   // 자바 코드 영역
17
18
19
20 %></body>
21 </html>
```

1st

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
  pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>
<%
// SQL 패키지 import
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>SQL package import</title>
</head>
<body>
<%
  // 자바 코드 영역

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



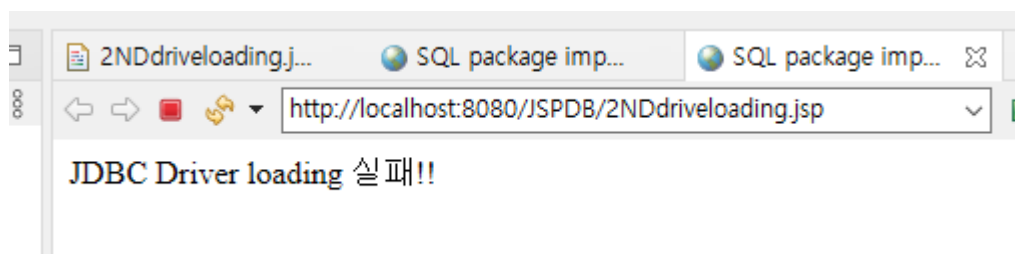
## 2nd

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>

<%@ page import="java.sql.*" %>
<%
// SQL 패키지 import
%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>SQL package import</title>
</head>
<body>
<%
    // JDBC 드라이버 로딩
    String driverClass = "com.mysql.jdbc.Driver";

    try {
        Class.forName(driverClass);
        out.print("JDBC Driver loading 성공!!<br>");
    }catch(ClassNotFoundException e){
        out.print("JDBC Driver loading 실패!!<br>");
    }
%>

</body>
</html>
```



<https://s3-us-west-2.amazonaws.com/secure.notion-static.com/58ae54f1-fca4-442f-8135-d529ac65a1a2/mysql-connector-java-8.0.26.zip>

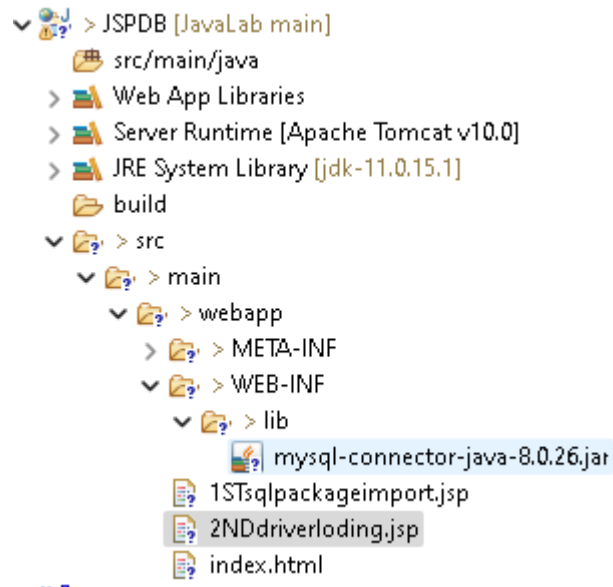
## sql packages import

```
1 <%@ page language="java" contentType="text/html; charset=UTF-8"
2     pageEncoding="UTF-8"%>
3
4 <%@ page import="java.sql.*"%>
5 <%
6 //SQL 패키지 임포트
7 %>
```

## JDBC driver 로딩

src - main - webapp - WEB-INF - lib 아래에

mysql-connector-java-8.0.26.jar 등의 드라이버 파일이 위치해야 함 (붙여넣기)

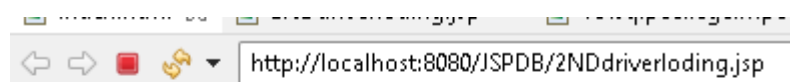


```
<body>
<%
    // JDBC 드라이버 로딩
    String driverClass = "com.mysql.jdbc.Driver";

    try {
        Class.forName(driverClass);
        out.print(" JDBC Driver loading 성공!!<br>");
    } catch (ClassNotFoundException e) {
        out.print("JDBC Driver loading 실패!!<br>");
    }

%>
</body>
```

연결 테스트



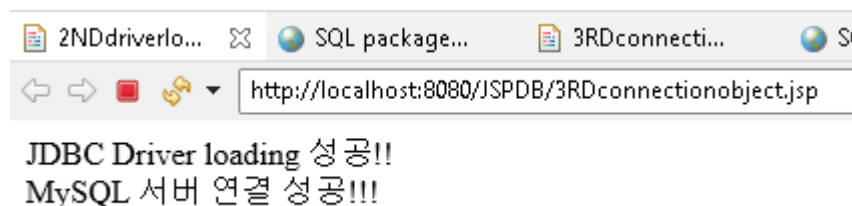
JDBC Driver loading 성공!!

## Connection Object 연결

```
// MySQL 데이터베이스 서버 연결 설정
String url = "jdbc:mysql://localhost:3306/";
String id = "root";
String pw = "0000";

// connection object 생성
Connection conn = null;

// connection MySQL 서버연결
try {
    conn = DriverManager.getConnection(url, id, pw);
    out.print("MySQL 서버 연결 성공!!!<br>");
} catch (SQLException e) {
    out.print("MySQL 서버 연결 실패!!!<br>");
}
```



```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
```

```
<% //SQL 패키지 임포트 %>
```

```
<%@ page import="java.sql.*"%>
```

```
<!DOCTYPE html>
```

```

<html>
<head>
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    }

    %>
</body>
</html>

```

## Statement Object

이 단계에서 SQL 구문을 작성하여 객체를 생성한다.

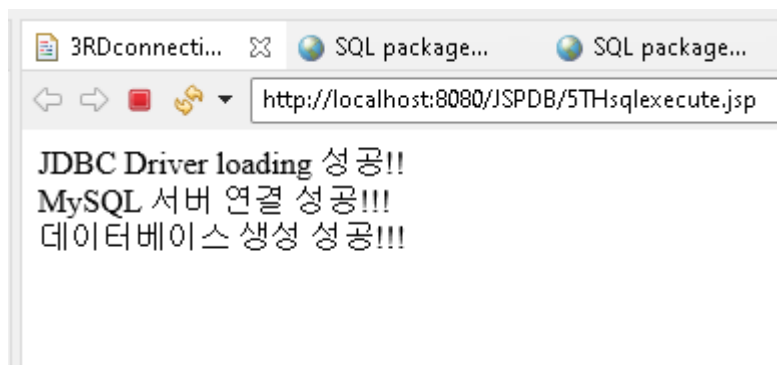
```
// SQL 구문 객체 작성
```

```
String sql = "CREATE DATABASE test";
PreparedStatement pstmt = conn.prepareStatement(sql);
```

## 5. SQL Activate(Execute)

```
// SQL 구문 실행
```

```
try{
    pstmt.executeUpdate();
    out.print("데이터베이스 생성 성공!!!<br>");
} catch (SQLException e) {
    out.print("데이터베이스 생성 실패!!!<br>");
    out.print(e.getMessage() + "<br>");
}
```



```
<%@ page language="java" contentType="text/html; charset=UTF-8"
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```

```
<% //SQL 패키지 임포트 %>
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<html>
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<head>
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```
<meta charset="UTF-8">
```

```
<title>SQL package import</title>
```

```
</head>
```

```
<body>
```

```
<%
```

```

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// SQL 구문 객체 작성

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PreparedStatement pstmt = conn.prepareStatement(sql);

// SQL 구문 실행

try{
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    out.print(e.getMessage() + "<br>");
}

%>
</body>
</html>

```

