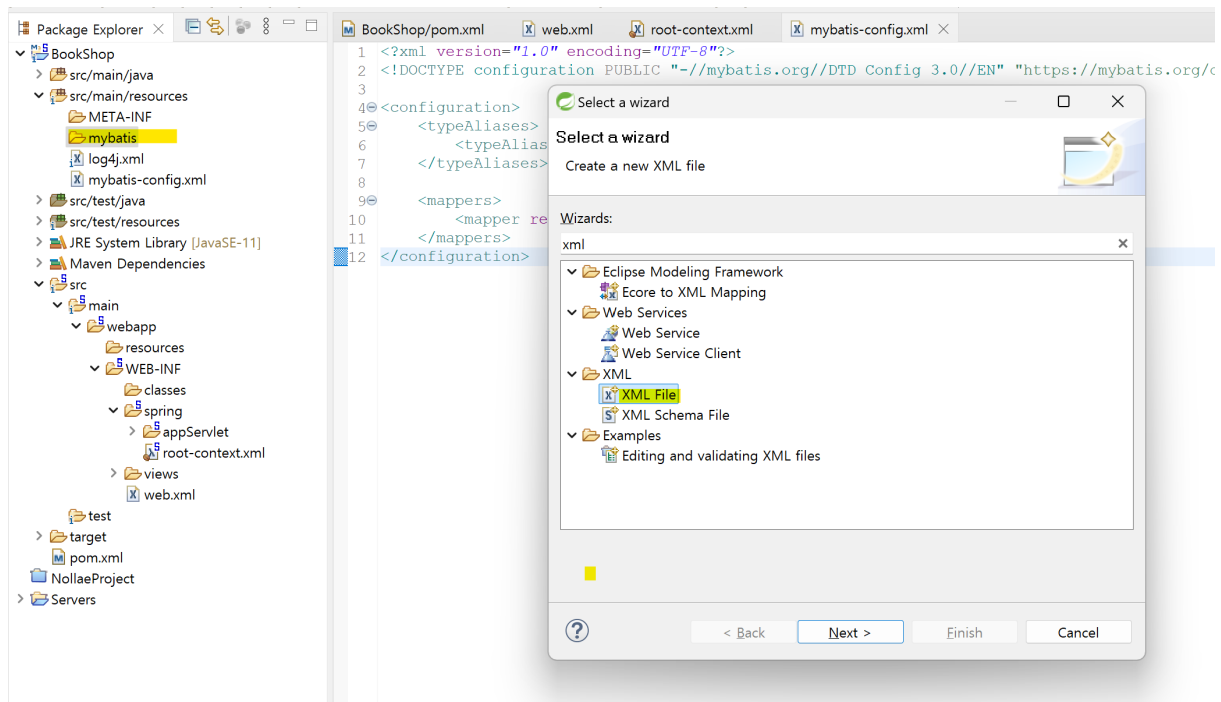


240801 book테이블로 복습



전날인 0731에 진행한 세팅에서는 11c(ojdbc6)을 사용해서 오류가 발생했다.
19c(ojdbc10)으로 다시 깔아서 실행해보려고 한다.

```
명령 프롬프트 - sqlplus /nolog X + v
Microsoft Windows [Version 10.0.22631.3958]
(c) Microsoft Corporation. All rights reserved.

C:\Users\USER>sqlplus /nolog

SQL*Plus: Release 19.0.0.0.0 - Production on 목 8월 1 13:48:42 2024
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

SQL> conn
사용자명 입력: system
비밀번호 입력:
ERROR:
ORA-01005: 널 비밀번호가 입력되었습니다. 로그온이 허락되지 않습니다.

SQL> conn
사용자명 입력: system
비밀번호 입력:
연결되었습니다.
SQL> select sysdate from dual;

SYSDATE
-----
24/08/01

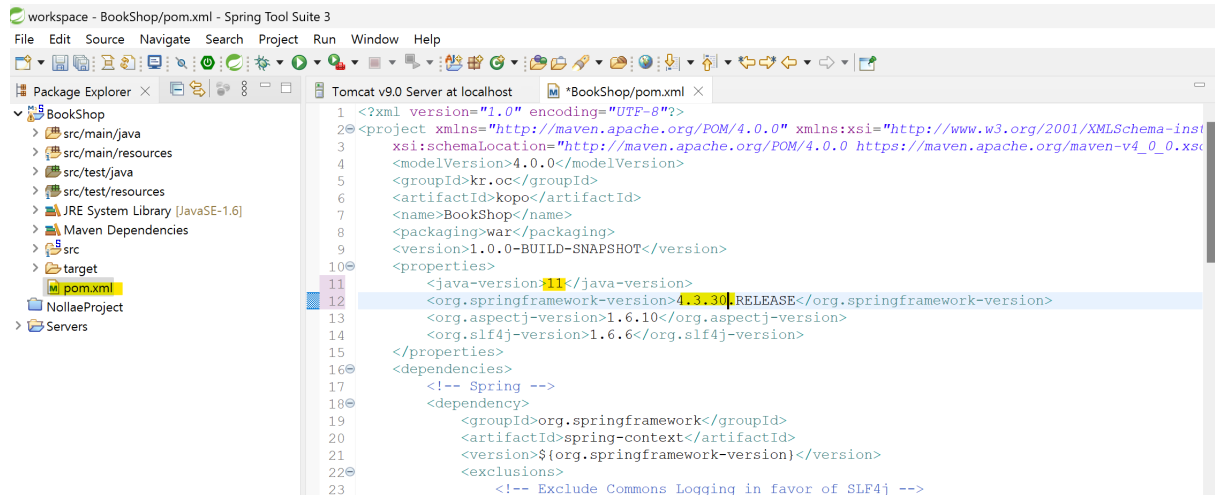
SQL> |
```

위 작업을 하려고 했으나...

다시 book테이블로 복습을 해보려고 한다.

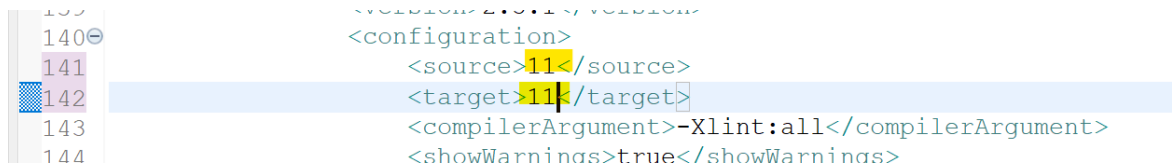
xml → 어노테이션 → spring mvc project(xml과 어노테이션이 섞여있다) → spring framework(xml 쓰지 마라)

- 프로젝트 만들고 가장먼저 pom.xml 세팅



※log4j(62행) 버전 고쳐야하는데 지금은 그냥 진행

- jdk 11로 변경



- mvnrepository 접속


<https://mvnrepository.com/>

— 데이터베이스 액세스 하기 위해 설치할 항목들

- spring jdbc

Found 35972 results

Sort: **relevance** | popular | newest



1. Spring JDBC

4,425 usages

org.springframework » spring-jdbc

Apache

Spring JDBC provides an abstraction layer that simplifies code to use JDBC and the parsing of database-vendor specific error codes.

Last Release on Jul 11, 2024

4.3.30.RELEASE

Note: There is a new version for this artifact

New Version	6.1.11
--------------------	--------

Maven | Gradle | Gradle (Short) | Gradle (Kotlin) | SBT | Ivy | Grape | Leiningen | Buildr

```

<!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-jdbc</artifactId>
  <version>4.3.30.RELEASE</version>
</dependency>

```

☒ Include comment with link to declaration

```

118     </dependency>
119
120     <!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
121     <dependency>
122       <groupId>org.springframework</groupId>
123       <artifactId>spring-jdbc</artifactId>
124       <version>4.3.30.RELEASE</version>
125     </dependency>
126
127

```

```

<!-- https://mvnrepository.com/artifact/org.springframework
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-jdbc</artifactId>
    <version>4.3.30.RELEASE</version>
</dependency>


```

- mybatis
 - java 코드, sql구문이랑 분사시켜주는 역할. 불필요한 많은 작업을 대신 해준다.

2.1k
102
54
41
31
22
21
17

Found 2242 results

Sort: **relevance** | popular | newest



1. **MyBatis**

1,683 usages

Apache

org.mybatis » mybatis

The MyBatis SQL mapper framework makes it easier to use a relational database with object-oriented applications. MyBatis couples objects with stored procedures or SQL statements using a XML descriptor or annotations. Simplicity is the biggest advantage of the MyBatis data mapper over object relational mapping tools.

Last Release on Apr 3, 2024

3.5.16 버전



MyBatis

The MyBatis SQL mapper framework makes it easier to use a relational database with object-oriented applications. MyBatis couples objects with stored procedures or SQL statements using a XML descriptor or annotations. Simplicity is the biggest advantage of the MyBatis data mapper over object relational mapping tools.

License	Apache 2.0
Categories	Object/Relational Mapping
Tags	persistence mapping orm mybatis relational
Ranking	#299 in MvnRepository (See Top Artifacts) #3 in Object/Relational Mapping
Used By	1,683 artifacts

Version	Vulnerabilities	Repository	Usages	Date
3.5.16		Central	69	Apr 03, 2024
3.5.15		Central	86	Dec 14, 2023
3.5.14		Central	40	Nov 02, 2023
3.5.13		Central	26	Oct 11, 2023

Ranking	#3 in Object/Relational Mapping
Used By	1,683 artifacts

Maven Gradle Gradle (Short) Gradle (Kotlin) SBT Ivy Grape Leiningen Buildr

```
<!-- https://mvnrepository.com/artifact/org.mybatis/mybatis -->
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis</artifactId>
  <version>3.5.16</version>
</dependency>
```

☒ Include comment with link to declaration

```
124         <version>4.3.30.RELEASE</version>
125     </dependency>
126
127     <!-- https://mvnrepository.com/artifact/org.mybatis/mybatis -->
128     <dependency>
129         <groupId>org.mybatis</groupId>
130         <artifactId>mybatis</artifactId>
131         <version>3.5.16</version>
132     </dependency>
133
134
135
```

```

<!-- https://mvnrepository.com/artifact/org.mybatis/m
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis</artifactId>
  <version>3.5.16</version>
</dependency>

```

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MyBatis

2. MyBatis Spring

org.mybatis » mybatis-spring

An easy-to-use Spring bridge for MyBatis sql mapping framework.

Last Release on Nov 25, 2023

743 usages

Apache

MyBatis

MyBatis Spring

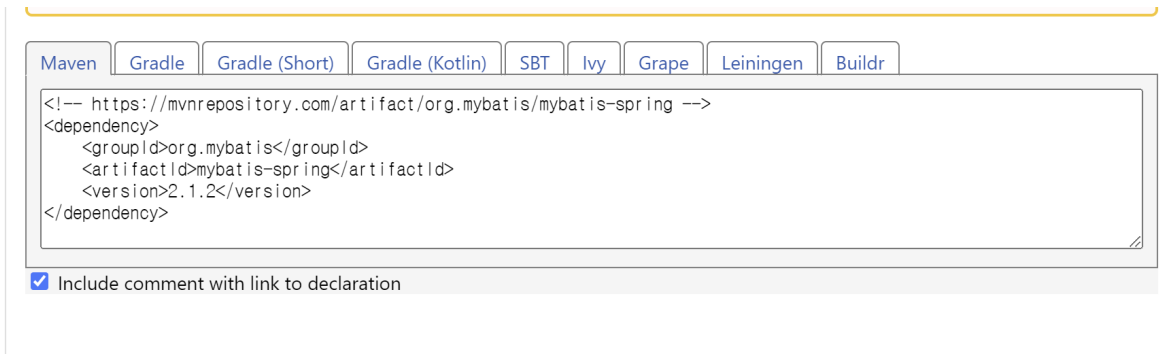
An easy-to-use Spring bridge for MyBatis sql mapping framework.

License	Apache 2.0			
Tags	mybatis persistence spring			
Ranking	#670 in MvnRepository (See Top Artifacts)			
Used By	743 artifacts			

Central (33)

ICM (1)

	Version	Vulnerabilities	Repository	Usages	Date
3.0.x	3.0.3		Central	51	Nov 20, 2023
	3.0.2		Central	9	May 19, 2023
	3.0.1		Central	13	Dec 09, 2022
	3.0.0		Central	6	Nov 25, 2022
2.1.x	2.1.2		Central	30	Nov 25, 2023
	2.1.1		Central	19	May 19, 2023
	2.1.0		Central	20	Nov 25, 2022
	2.0.7		Central	72	Jan 29, 2022
	2.0.6		Central	119	Nov 14, 2020



```
133
134
135 <!-- https://mvnrepository.com/artifact/org.mybatis/mybatis-spring -->
136 <dependency>
137   <groupId>org.mybatis</groupId>
138   <artifactId>mybatis-spring</artifactId>
139   <version>2.1.2</version>
140 </dependency>
141
```

```
<!-- https://mvnrepository.com/artifact/org.mybatis/mybatis-s
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis-spring</artifactId>
  <version>2.1.2</version>
</dependency>
```


dbcp2(cp=connectionpool)

dbcp2

Search

Found 12 results

Sort: **relevance** | popular | newest



1. **Apache Commons DBCP**

org.apache.commons » commons-dbcp2

Apache Commons DBCP software implements Database Connection Pooling

Last Release on Mar 4, 2024

1,003 usages

Apache

Home » org.apache.commons » commons-dbcp2



Apache Commons DBCP

Apache Commons DBCP software implements Database Connection Pooling

License	Apache 2.0
Categories	JDBC Pools
Tags	database sql jdbc pooling apache pool dbcp connection commons datasource
Ranking	#507 in MvnRepository (See Top Artifacts) #3 in JDBC Pools
Used By	1,003 artifacts

Central (15)

Redhat GA (1)

Redhat EA (1)

Everit (1)

Version		Vulnerabilities	Repository	Usages	Date
2.12.x	2.12.0		Central	68	Mar 04, 2024

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```
<!-- https://mvnrepository.com/artifact/org.apache.commons/co
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-dbc2</artifactId>
```

```
<version>2.12.0</version>
</dependency>
```


- oracle jdbc driver

Found 8764 results


Sort: **relevance** | popular | newest



1. Spring JDBC 4,425 usages
[org.springframework » spring-jdbc](https://org.springframework.org/spring-jdbc) Apache
Spring JDBC provides an abstraction layer that simplifies code to use JDBC and the parsing of database-vendor specific error codes.
Last Release on Jul 11, 2024



2. Oracle JDBC Driver 123 usages
[com.oracle » ojdbc14](https://com.oracle.com/ojdbc14)
Oracle JDBC driver classes for use with JDK1.4
Last Release on Feb 4, 2010
Relocated → [com.oracle.database.jdbc » ojdbc10](https://com.oracle.com/ojdbc10)




3. Ojdbc8 400 usages
[com.oracle.database.jdbc » ojdbc8](https://com.oracle.com/ojdbc8)
Oracle JDBC Driver compatible with JDK8 and JDK11
Last Release on May 24, 2024
Relocated → [com.oracle.database.jdbc » ojdbc10](https://com.oracle.com/ojdbc10)

Search for groups, artifacts, categories

Search

[Home](#) » [com.oracle.database.jdbc](#) » [ojdbc8](#)



Ojdbc8

Oracle JDBC Driver compatible with JDK8 and JDK11

Categories	JDBC Drivers
Tags	database sql oracle jdbc data driver rdbms
Ranking	#1270 in MvnRepository (See Top Artifacts) #12 in JDBC Drivers
Used By	400 artifacts

This artifact was moved to:

[com.oracle.database.jdbc](#) » [ojdbc10](#)

Central (42)

Version	Vulnerabilities	Repository	Usages	Date
8.3.0.21.05		Central	15	11/23/2024

[Home](#) » [com.oracle.database.jdbc](#) » [ojdbc10](#)



Ojdbc10

Oracle JDBC Driver compatible with JDK11 and JDK17

Categories	JDBC Drivers
Tags	database sql oracle jdbc data driver rdbms
Ranking	#13053 in MvnRepository (See Top Artifacts) #22 in JDBC Drivers
Used By	31 artifacts

This artifact was moved to:

[com.oracle.database.jdbc](#) » [ojdbc11](#)

Central (21)

Version	Vulnerabilities	Repository	Usages	Date
---------	-----------------	------------	--------	------

**Ojdbc11**

Oracle JDBC Driver compatible with JDK11, JDK17, JDK19, and JDK21

Tags	database sql oracle jdbc data
Ranking	#3158 in MvnRepository (See Top Artifacts)
Used By	146 artifacts

Central (18)

	Version	Vulnerabilities	Repository	Usages	Date
23.4.x	23.4.0.24.05		Central	20	May 03, 2024
23.3.x	23.3.0.23.09		Central	50	Oct 02, 2023
23.2.x	23.2.0.0		Central	38	Apr 07, 2023
21.14.x	21.14.0.0		Central	4	May 24, 2024
21.13.x	21.13.0.0		Central	6	Feb 22, 2024
21.12.x	21.12.0.0		Central	1	Feb 22, 2024
21.11.x	21.11.0.0		Central	9	Aug 11, 2023
21.10.x	21.10.0.0		Central	6	May 25, 2023
21.9.x	21.9.0.0		Central	23	Feb 11, 2023
21.8.x	21.8.0.0		Central	29	Dec 06, 2022
21.7.x	21.7.0.0		Central	28	Aug 26, 2022
	21.6.0.0.1		Central	14	Jun 20, 2022

**Ojdbc11 » 23.4.0.24.05**

Oracle JDBC Driver compatible with JDK11, JDK17, JDK19, and JDK21

Tags	database sql oracle jdbc data
HomePage	https://www.oracle.com/database/technologies/maven-central-g ...
Date	May 03, 2024
Files	pom (1 KB) jar (6.8 MB) View All
Repositories	Central
Ranking	#3158 in MvnRepository (See Top Artifacts)
Used By	146 artifacts

[Maven](#)
[Gradle](#)
[Gradle \(Short\)](#)
[Gradle \(Kotlin\)](#)
[SBT](#)
[Ivy](#)
[Grape](#)
[Leiningen](#)
[Buildr](#)

```
<!-- https://mvnrepository.com/artifact/com.oracle.database.jdbc/ojdbc11 -->
<dependency>
  <groupId>com.oracle.database.jdbc</groupId>
  <artifactId>ojdbc11</artifactId>
  <version>23.4.0.24.05</version>
</dependency>
```

☒ Include comment with link to declaration

```

148
149
150 <!-- https://mvnrepository.com/artifact/com.oracle.database.jdbc/ojdbc11 -->
151 <dependency>
152   <groupId>com.oracle.database.jdbc</groupId>
153   <artifactId>ojdbc11</artifactId>
154   <version>23.4.0.24.05</version>
155 </dependency>

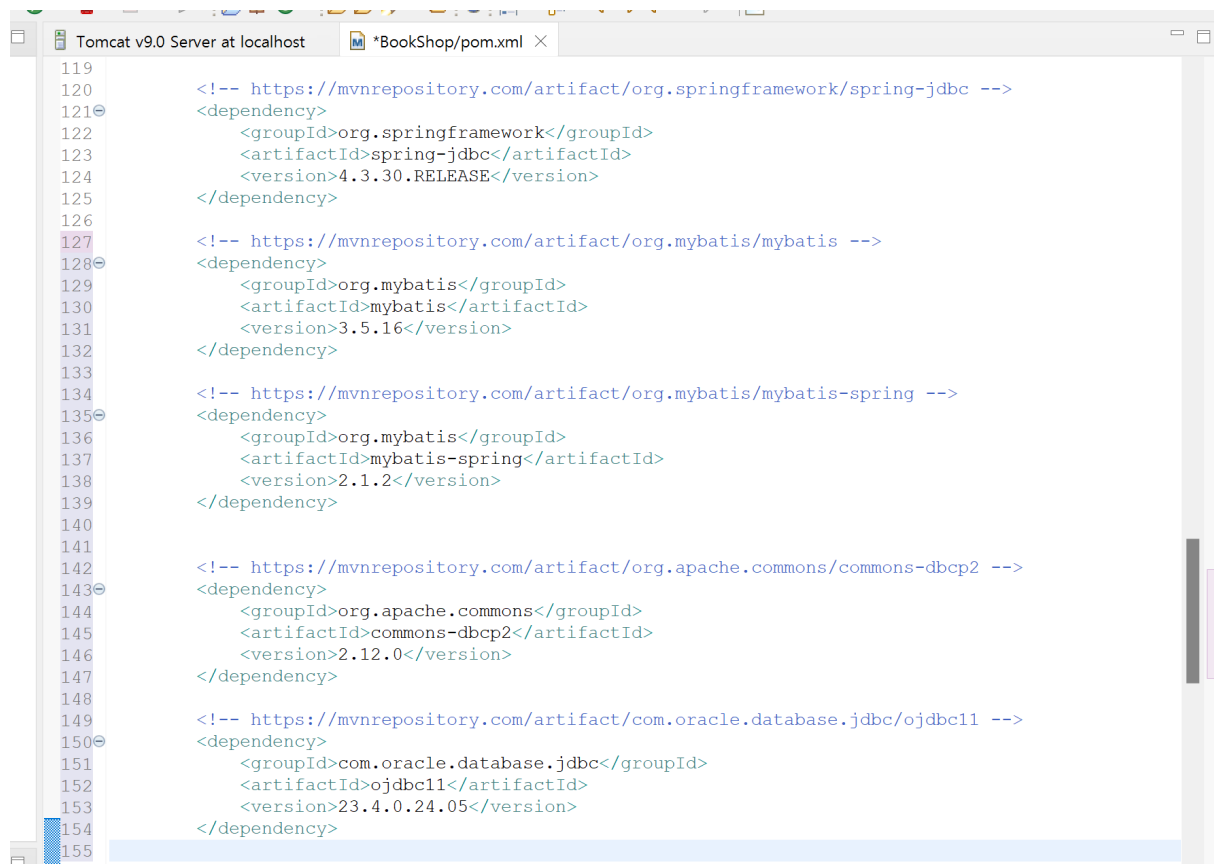
```

```

<!-- https://mvnrepository.com/artifact/com.oracle.database.j
<dependency>
  <groupId>com.oracle.database.jdbc</groupId>
  <artifactId>ojdbc11</artifactId>
  <version>23.4.0.24.05</version>
</dependency>

```

아래와 같이 되었으면 완료



```

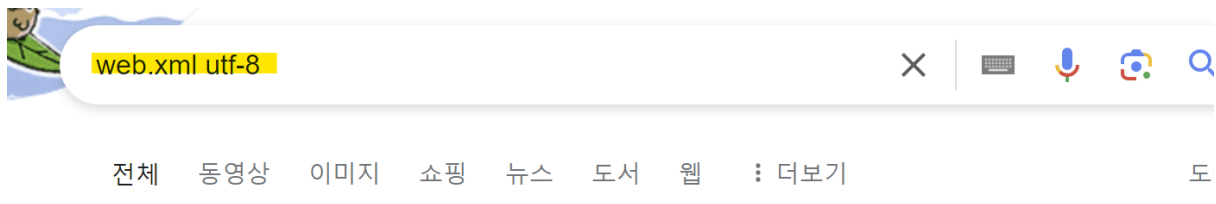
119
120 <!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
121 <dependency>
122   <groupId>org.springframework</groupId>
123   <artifactId>spring-jdbc</artifactId>
124   <version>4.3.30.RELEASE</version>
125 </dependency>
126
127 <!-- https://mvnrepository.com/artifact/org.mybatis/mybatis -->
128 <dependency>
129   <groupId>org.mybatis</groupId>
130   <artifactId>mybatis</artifactId>
131   <version>3.5.16</version>
132 </dependency>
133
134 <!-- https://mvnrepository.com/artifact/org.mybatis/mybatis-spring -->
135 <dependency>
136   <groupId>org.mybatis</groupId>
137   <artifactId>mybatis-spring</artifactId>
138   <version>2.1.2</version>
139 </dependency>
140
141
142 <!-- https://mvnrepository.com/artifact/org.apache.commons/commons-dbcp2 -->
143 <dependency>
144   <groupId>org.apache.commons</groupId>
145   <artifactId>commons-dbcp2</artifactId>
146   <version>2.12.0</version>
147 </dependency>
148
149 <!-- https://mvnrepository.com/artifact/com.oracle.database.jdbc/ojdbc11 -->
150 <dependency>
151   <groupId>com.oracle.database.jdbc</groupId>
152   <artifactId>ojdbc11</artifactId>
153   <version>23.4.0.24.05</version>
154 </dependency>
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```

pom.xml 끝

- web.xml 수정

: 한글문제때문에 필터 넣어준다.

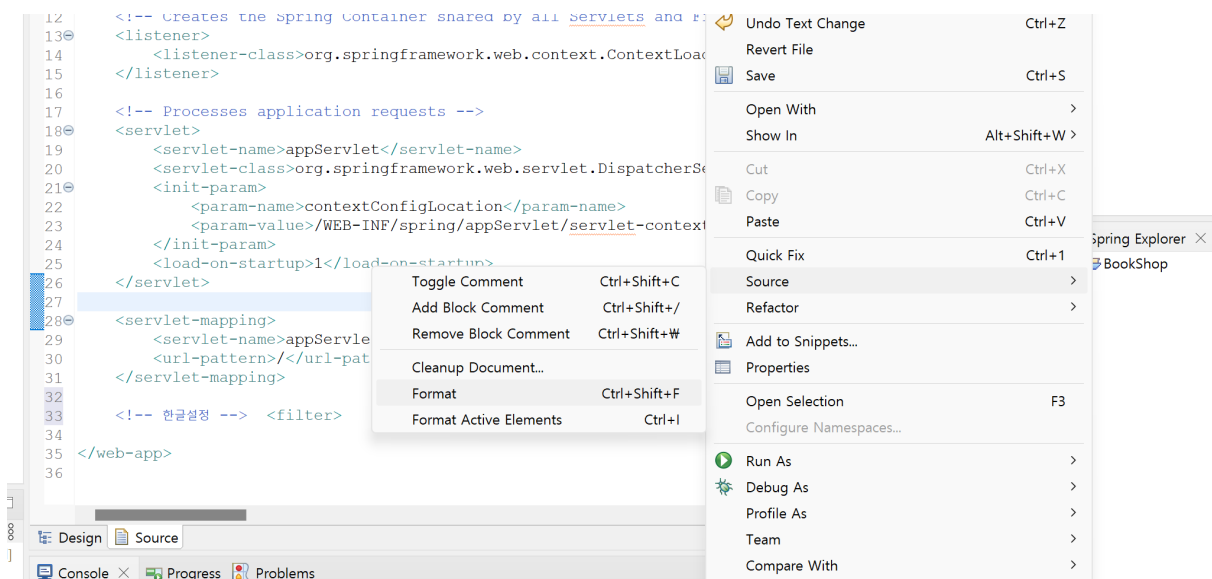


티스토리

<https://homesi.tistory.com> > entry > Spring에서-한글깨... :

Spring에서 한글깨짐 방지를 위해 web.xml에서 한글 설정

2017. 7. 18. — 한글 깨짐현상을 막기 위해, **web.xml**에 filter를 설정한다. `<?xml version="1.0" encoding="UTF-8"?>` `<web-app version="2.5" ...`



```
Tomcat v9.0 Server at localhost *BookShop/pom.xml *web.xml X
21 <servlet-name>appServlet</servlet-name>
22 <servlet-class>org.springframework.web.servlet.DispatcherServlet
23 </servlet-class>
24 <init-param>
25 <param-name>contextConfigLocation</param-name>
26 <param-value>/WEB-INF/spring/appServlet/servlet-context.xml
27 </param-value>
28 </init-param>
29 <load-on-startup>1</load-on-startup>
30 </servlet>
31
32 <servlet-mapping>
33 <servlet-name>appServlet</servlet-name>
34 <url-pattern>/</url-pattern>
35 </servlet-mapping>
36
37 <!-- 한글설정 -->
38 <filter>
39 <filter-name>encodingFilter</filter-name>
40 <filter-class> org.springframework.web.filter.CharacterEncodingFilter
41 </filter-class>
42 <init-param>
43 <param-name>encoding</param-name>
44 <param-value>UTF-8</param-value>
45 </init-param>
46 <init-param>
47 <param-name>forceEncoding</param-name>
48 <param-value>true</param-value>
49 </init-param>
50 </filter>
51 <filter-mapping>
52 <filter-name>encodingFilter</filter-name>
53 <url-pattern>/*</url-pattern>
54 </filter-mapping>
55 <!-- 한글설정 END -->
56
57 </web-app>
```

```
<!-- 한글설정 -->
<filter>
    <filter-name>encodingFilter</filter-name>
    <filter-class> org.springframework.web.filter.Character
    </filter-class>
    <init-param>
        <param-name>encoding</param-name>
        <param-value>UTF-8</param-value>
    </init-param>
    <init-param>
        <param-name>forceEncoding</param-name>
        <param-value>true</param-value>
    </init-param>
</filter>
<filter-mapping>
    <filter-name>encodingFilter</filter-name>
    <url-pattern>/*</url-pattern>
```

```
</filter-mapping>
<!-- 한글설정 END -->
```

web.xml 끝

root-context.xml

```
<bean id="dataSource" class="org.apache.commons.dbcp2.BasicDataSource"
    <property name="driverClassName" value="oracle.jdbc.OracleDriver" />
    <property name="url" value="jdbc:oracle:thin:@localhost:1521:xe" />
    <property name="username" value="madang" />
    <property name="password" value="madang" />
</bean>

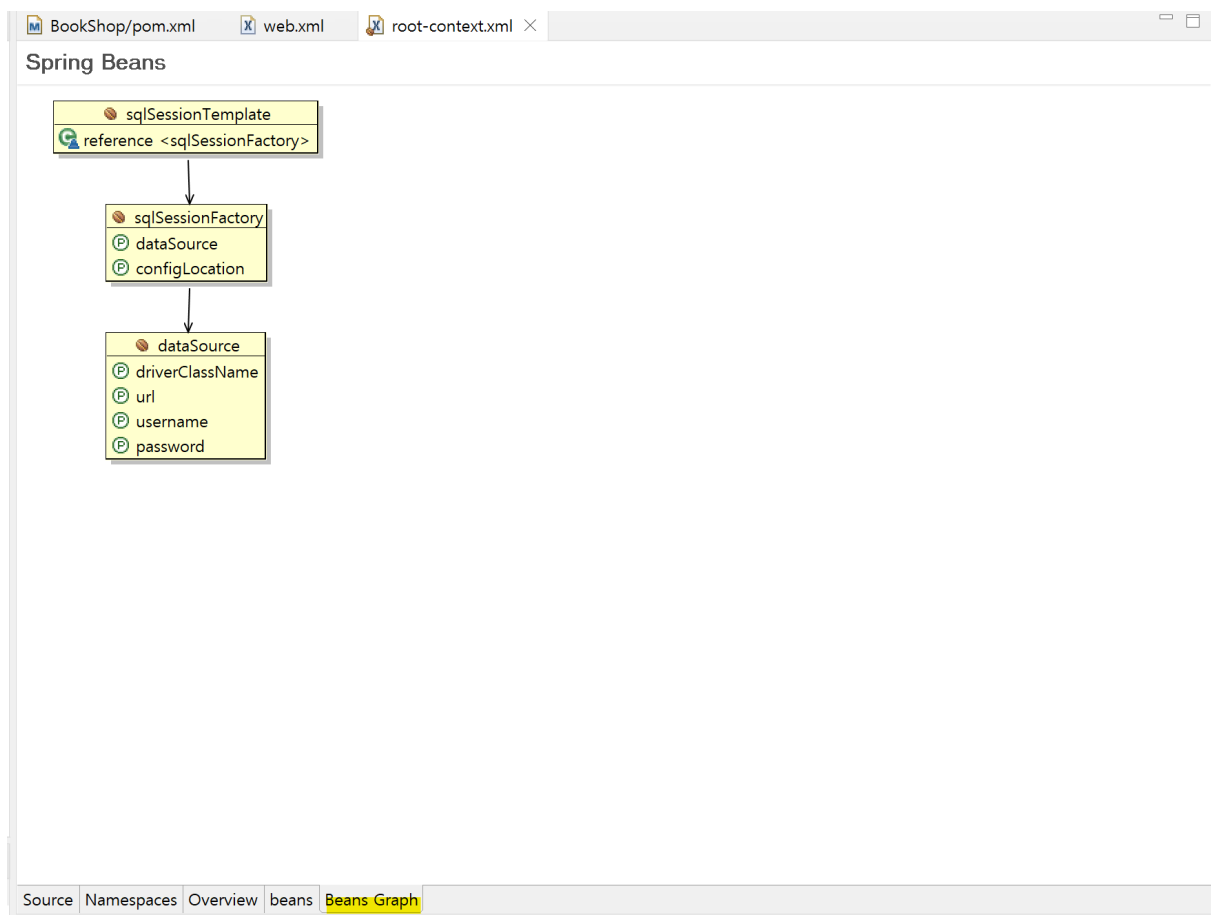
<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean"
    <property name="dataSource" ref="dataSource" />
    <property name="configLocation" value="classpath:mybatis-config.xml" />
</bean>

<bean id="sqlSessionTemplate" class="org.mybatis.spring.SqlSessionTemplate"
    <constructor-arg name="sqlSessionFactory" ref="sqlSessionFactory" />
</bean>
```



```
Tomcat v9.0 Server at localhost BookShop/pom.xml web.xml root-context.xml X
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xsi:schemaLocation="http://www.springframework.org/schema/beans https://www.springframework.org/
5
6       <!-- Root Context: defines shared resources visible to all other web components -->
7
8       <bean id="dataSource" class="org.apache.commons.dbcp2.BasicDataSource" destroy-method="close">
9         <property name="driverClassName" value="oracle.jdbc.OracleDriver"></property>
10        <property name="url" value="jdbc:oracle:thin:@localhost:1521:xe"></property>
11        <property name="username" value="madang"></property>
12        <property name="password" value="madang"></property>
13      </bean>
14
15      <bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
16        <property name="dataSource" ref="dataSource"></property>
17        <property name="configLocation" value="classpath:mybatis-config.xml"></property>
18      </bean>
19
20      <bean id="sqlSessionTemplate" class="org.mybatis.spring.SqlSessionTemplate">
21        <constructor-arg name="sqlSessionFactory" ref="sqlSessionFactory"></constructor-arg>
22      </bean>
23
24    </beans>
25
```

3개의 빈을 만들어 준다.

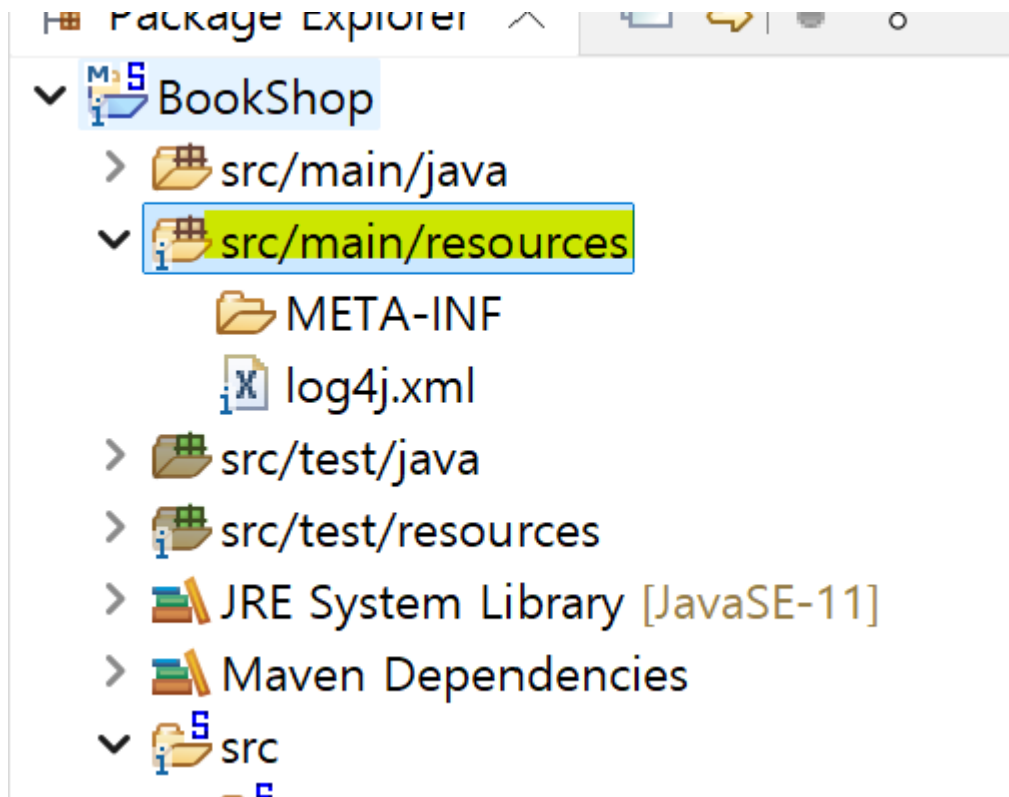


위와같이 그래프 확인 가능.

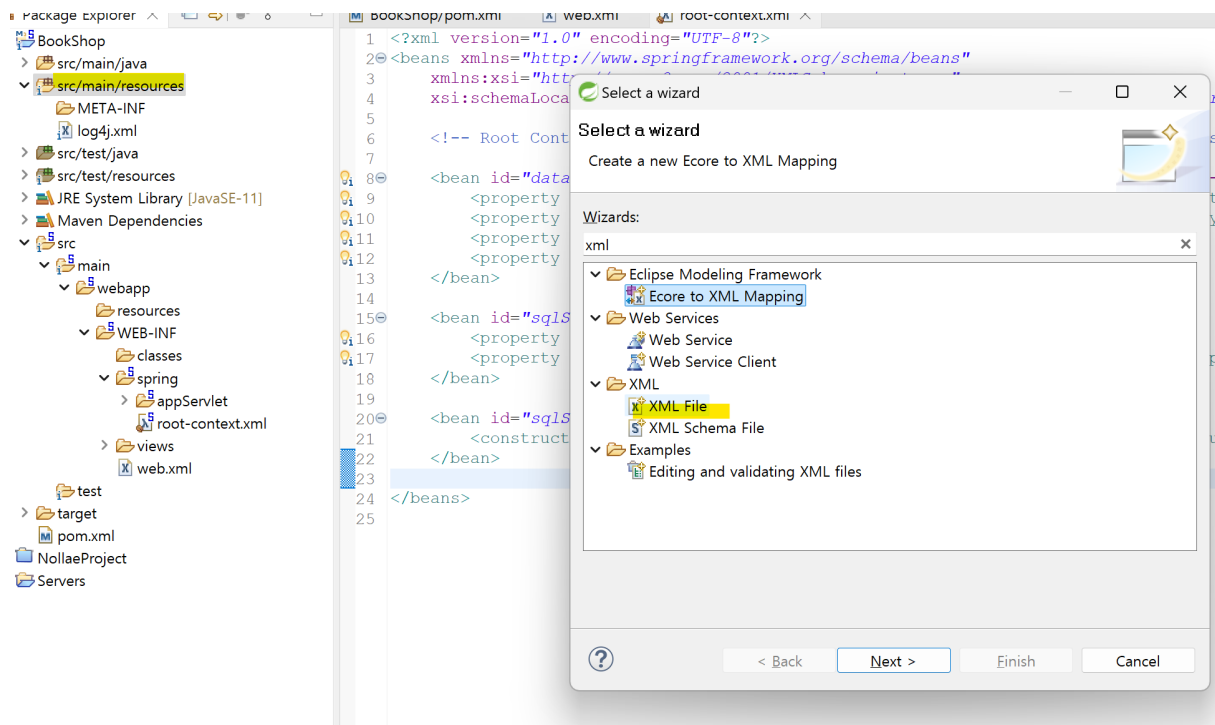
```
.spring.SqlSessionFactoryBean">  
></property>  
spath:mybatis-config.xml"></prope
```

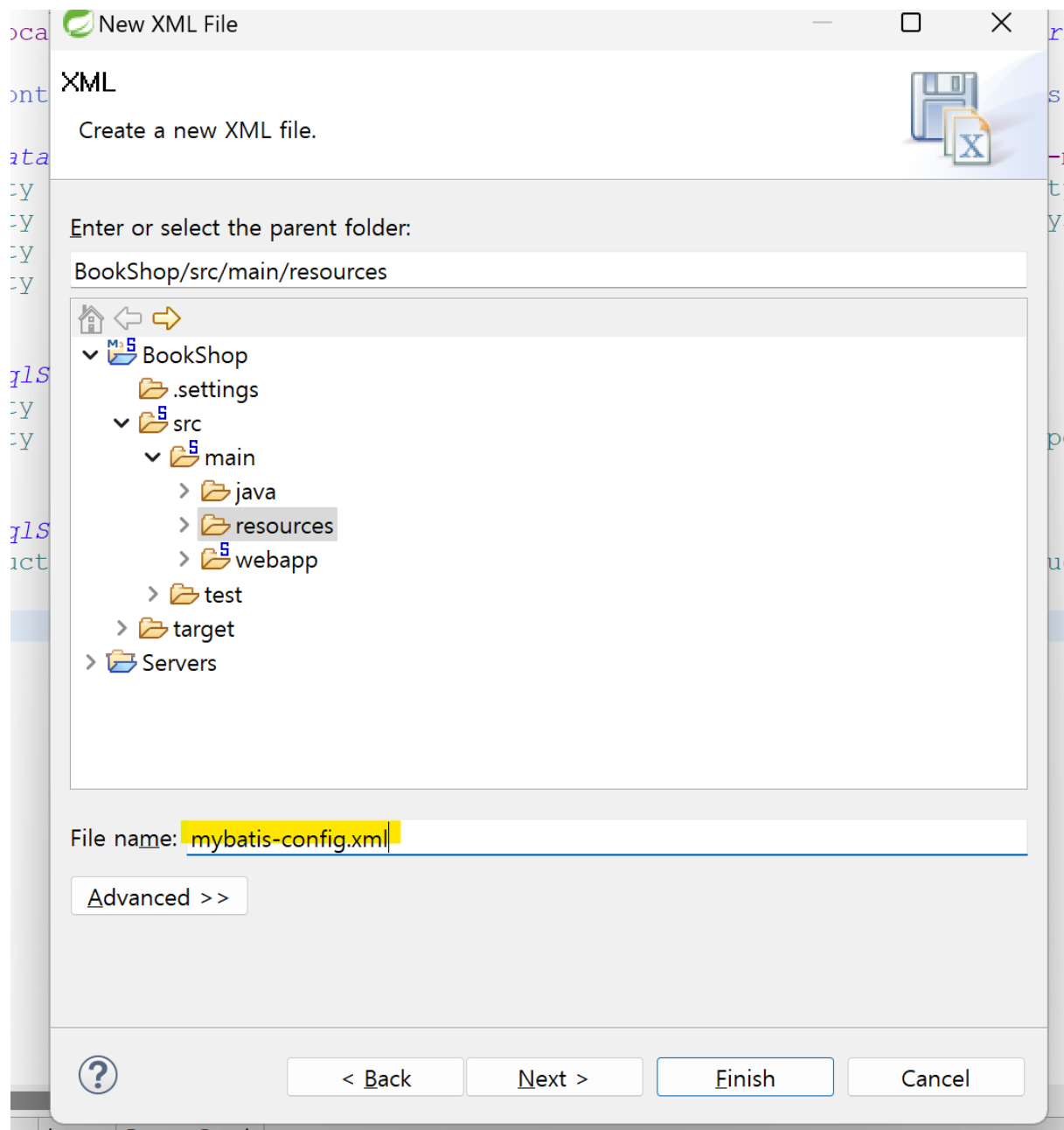
```
s.spring.SqlSessionTemplate">
```

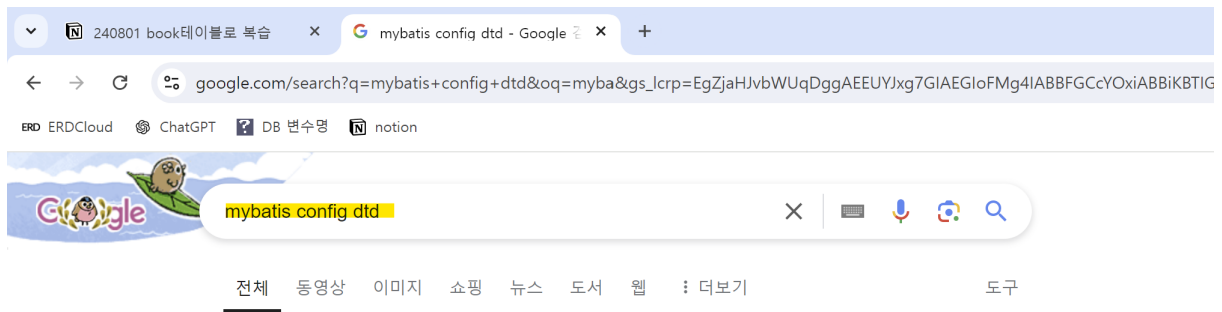
mybatis-config.xml 만들어줘야함. 위치는



여기에 만들.







XML에서 SqlSessionFactory 빌드하기

모든 마이바티스 애플리케이션은 SqlSessionFactory 인스턴스를 사용한다. SqlSessionFactory 인스턴스는 SqlSessionFactoryBuilder는 XML 설정파일에서 SqlSessionFactory 인스턴스를 빌드할 수 있다.

XML 파일에서 SqlSessionFactory 인스턴스를 빌드하는 것은 매우 간단하다. 설정을 위해 클래스패스 자원을 사 InputStream 인스턴스를 사용할 수도 있다. 마이바티스는 클래스패스와 다른 위치에서 자원을 로드하는 것으로

```
String resource = "org/mybatis/example/mybatis-config.xml";
InputStream inputStream = Resources.getResourceAsStream(resource);
SqlSessionFactory sqlSessionFactory = new SqlSessionFactoryBuilder().build(inputStream);
```

XML 설정파일에서 지정하는 마이바티스의 핵심이 되는 설정은 트랜잭션을 제어하기 위한 TransactionManager를 포함한다. 세부적인 설정은 조금 뒤에 보고 간단한 예제를 먼저보자.

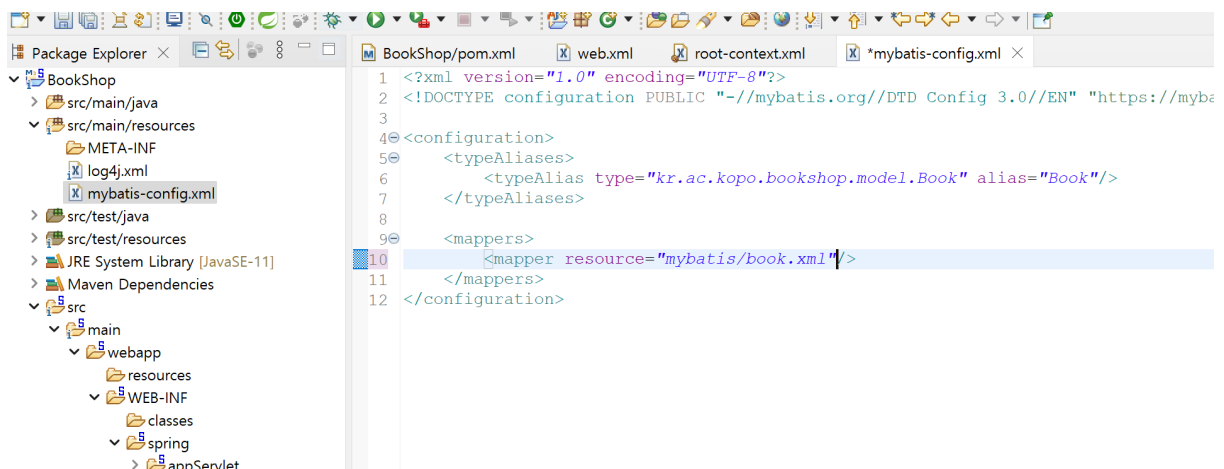
```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE configuration
PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
"https://mybatis.org/dtd/mybatis-3-config.dtd">
<configuration>
  <environments default="development">
    <environment id="development">
      <transactionManager type="JDBC"/>
      <dataSource type="POOLED">
        <property name="driver" value="${driver}"/>
```

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD Config 3.0//EN" "https://mybatis.org/dtd/mybatis-3-config.dtd">
3
```

```

3
4 <configuration>
5
6 </configuration>

```



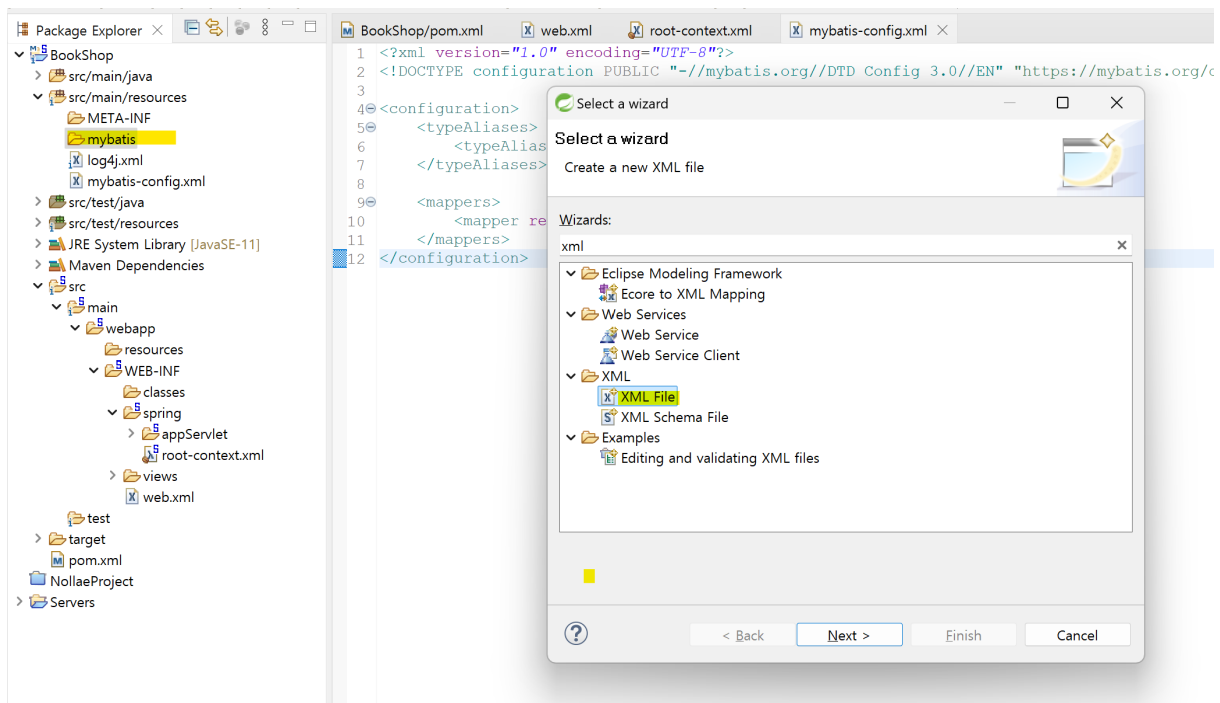
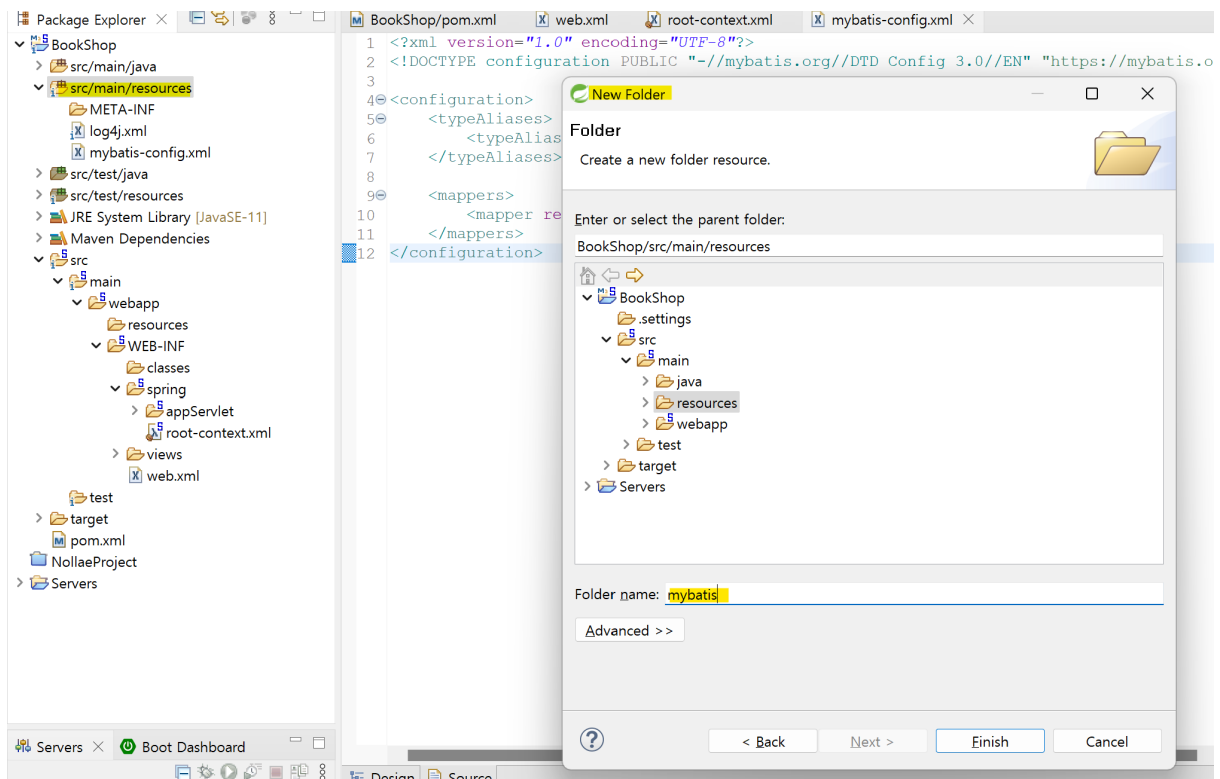
```

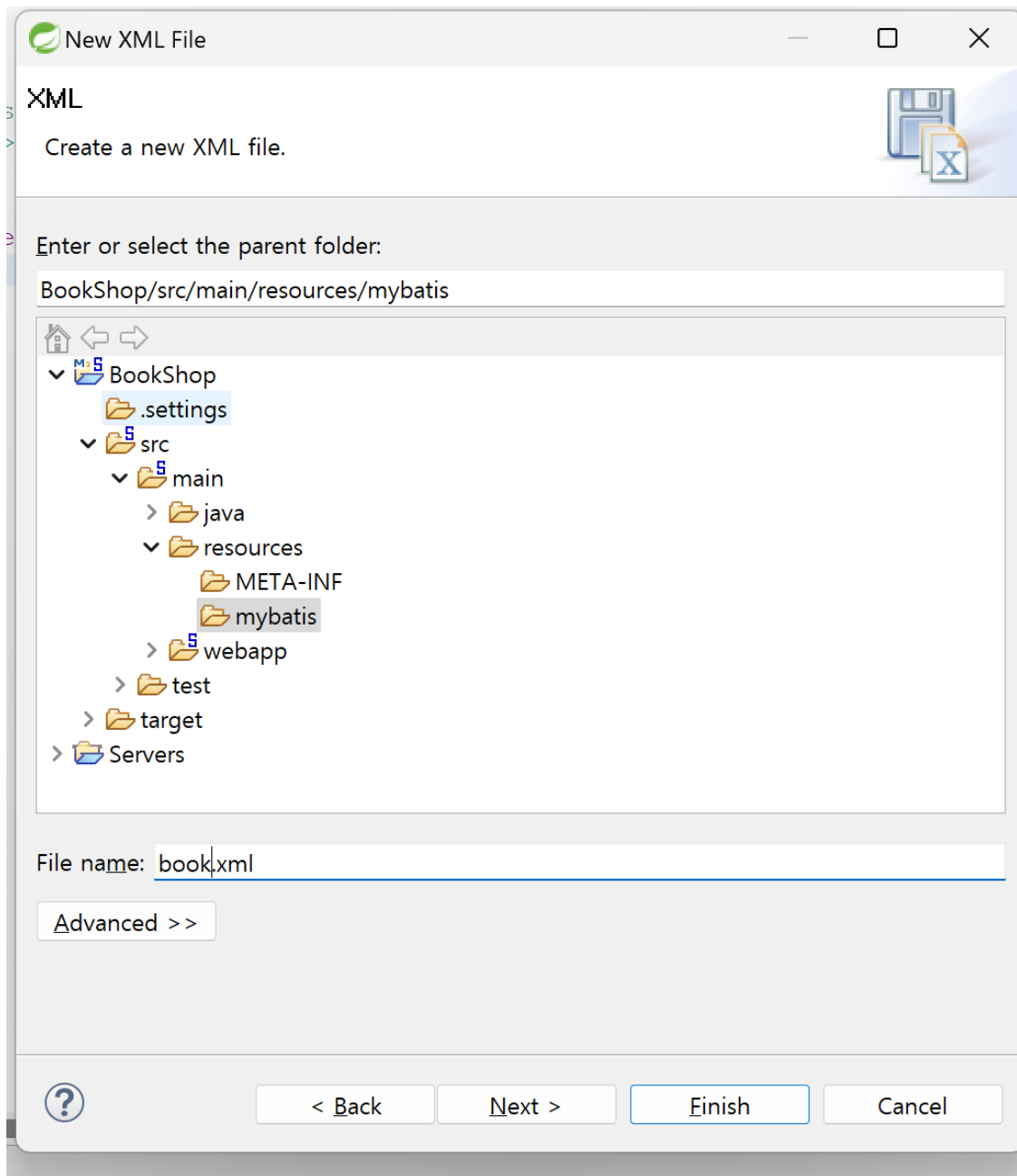
<mappers>
    <mapper resource="mybatis/book.xml"/>
</mappers>

```

book.xml 만들어야함

book.xml 만들기





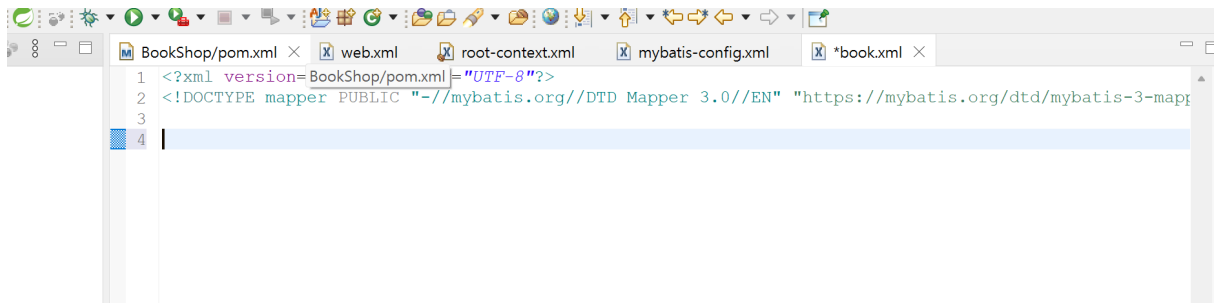
매핑된 SQL 구문 살펴보기

이 시점에 SqlSession이나 Mapper클래스가 정확히 어떻게 실행되는지 궁금하지만 다음의 두가지 예제를 통해 정확히 어떻게 작동하는지에 대해서는 좀

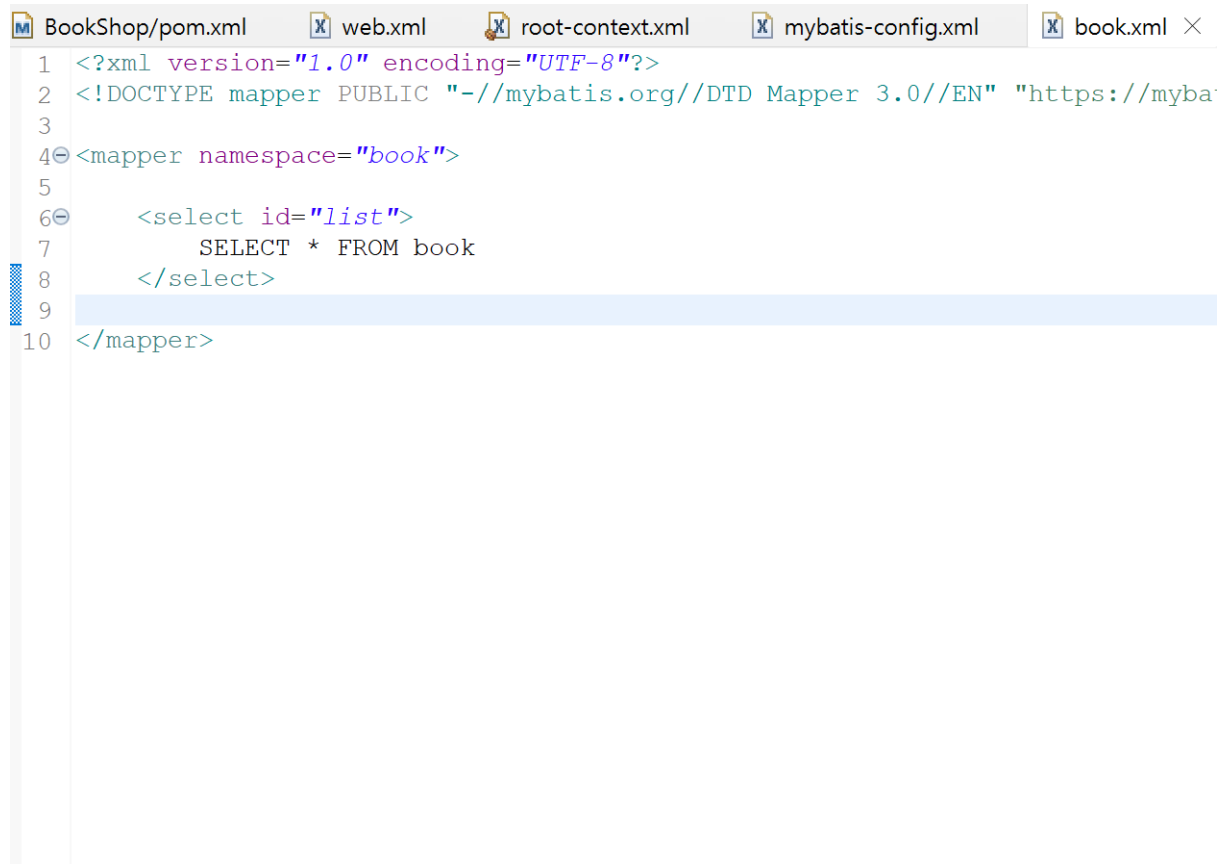
위 예제처럼 구문은 XML이나 애노테이션을 사용해서 정의할 수 있다. 그럼 바티스를 사용했었다면 쉽게 이해되겠지만 XML 매핑 문서에 이전보다 많은

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE mapper
PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"https://mybatis.org/dtd/mybatis-3-mapper.dtd">
<mapper namespace="org.mybatis.example.BlogMapper">
  <select id="selectBlog" resultType="Blog">
    select * from Blog where id = #{id}
  </select>
</mapper>
```

가다치 예제하구는 조그 부자세 바이지만 시제구는 괴자치 가다치다 취나 개(

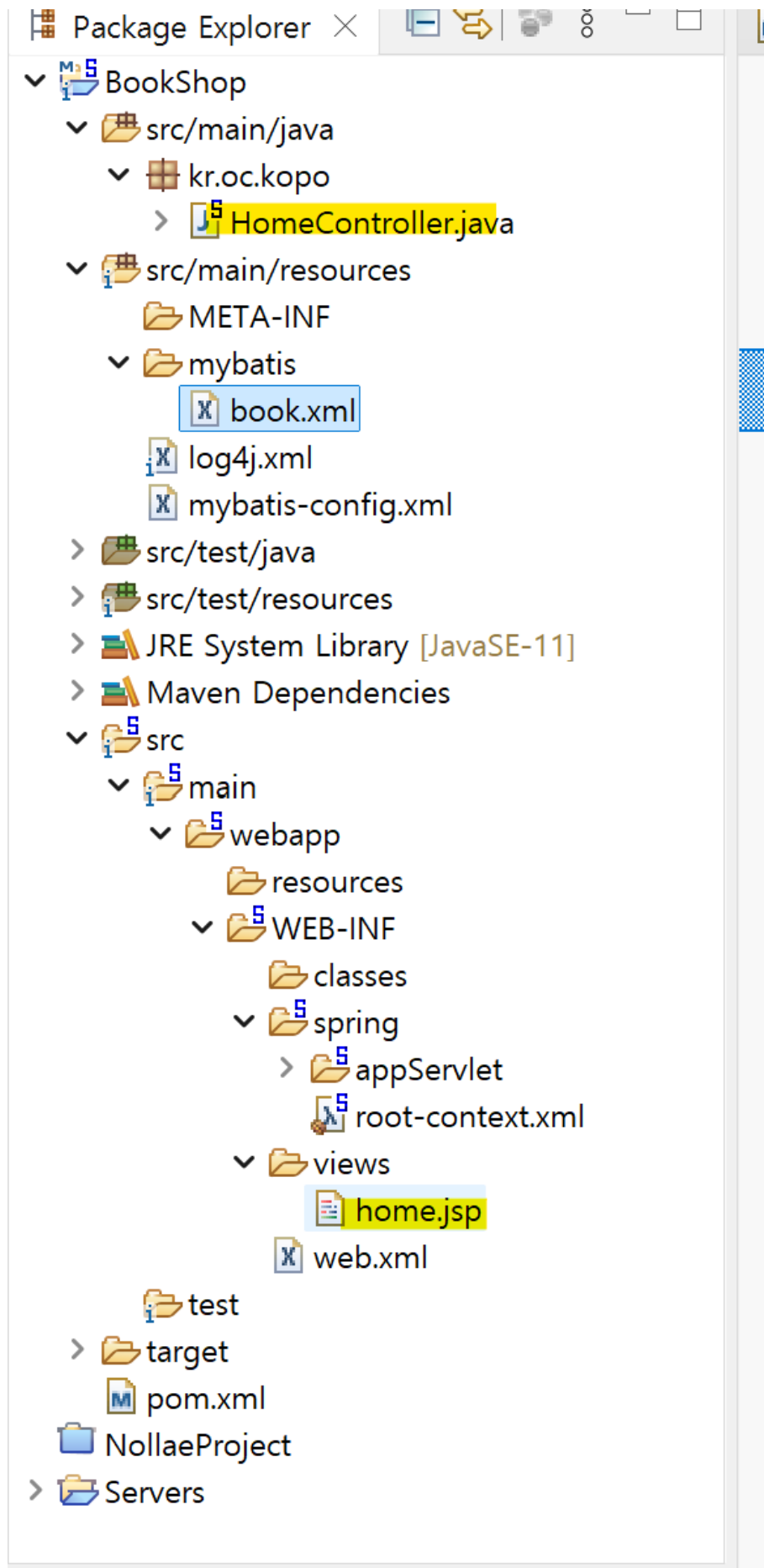


```
<!DOCTYPE mapper
PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
"https://mybatis.org/dtd/mybatis-3-mapper.dtd">
```

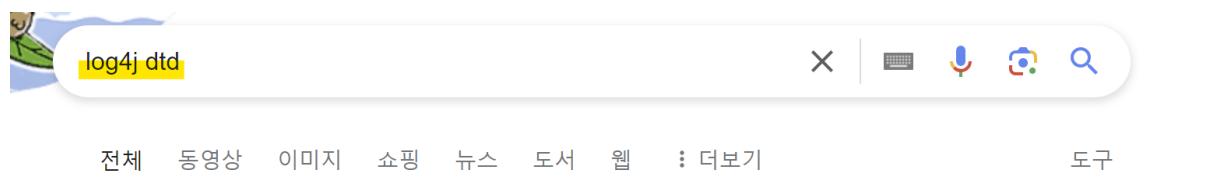
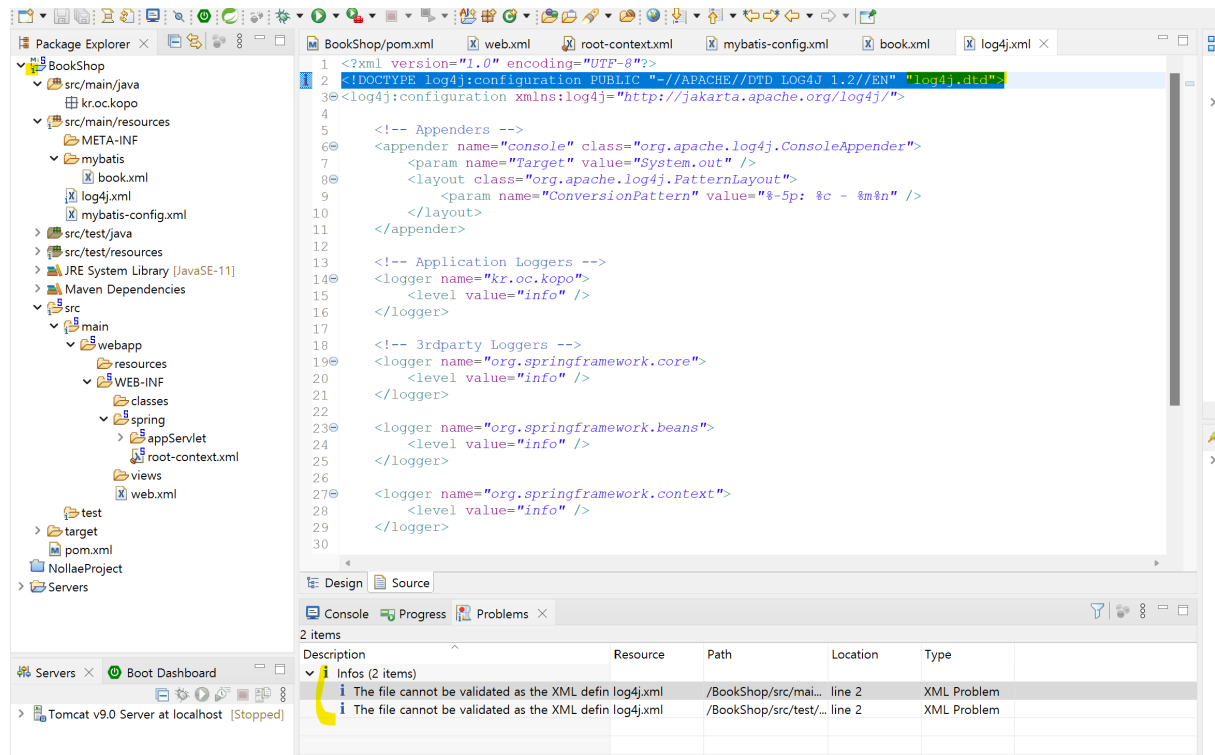


```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "https://myba
3
4 <mapper namespace="book">
5
6   <select id="list">
7     SELECT * FROM book
8   </select>
9
10 </mapper>
```

아래 두 항목은 삭제



아래 Problems에 뜨는 오류 → log4j 기본 dtd가 오류를 일으킨다.



티스토리

<https://memme.tistory.com> > ...

log4j.dtd 지정된 파일을 찾을 수 없습니다. - 프로그래밍 공부 :)

2021. 8. 19. — Cannot find DTD 'file:///경로/ workspace/test/src/main/resources/log4j.dtd'. 해당 오류는 log4j.dtd 파일을 찾을 수 없다는 오류이다.

```

<!-- 수정 전 -->
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE log4j:configuration PUBLIC "-//APACHE//DTD LOG4J 1.2//EN" "log4j.dtd">
<log4j:configuration xmlns:log4j="http://jakarta.apache.org/log4j/">

<!-- 수정 후 -->
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE log4j:configuration PUBLIC "-//APACHE//DTD LOG4J 1.2//EN"
    "http://logging.apache.org/log4j/1.2/apidocs/org/apache/log4j/xml/doc-files/log4j.dtd">
<log4j:configuration xmlns:log4j="http://jakarta.apache.org/log4j/">

```

"http://logging.apache.org/log4j/1.2/apidocs/org/apache/log4j/

