



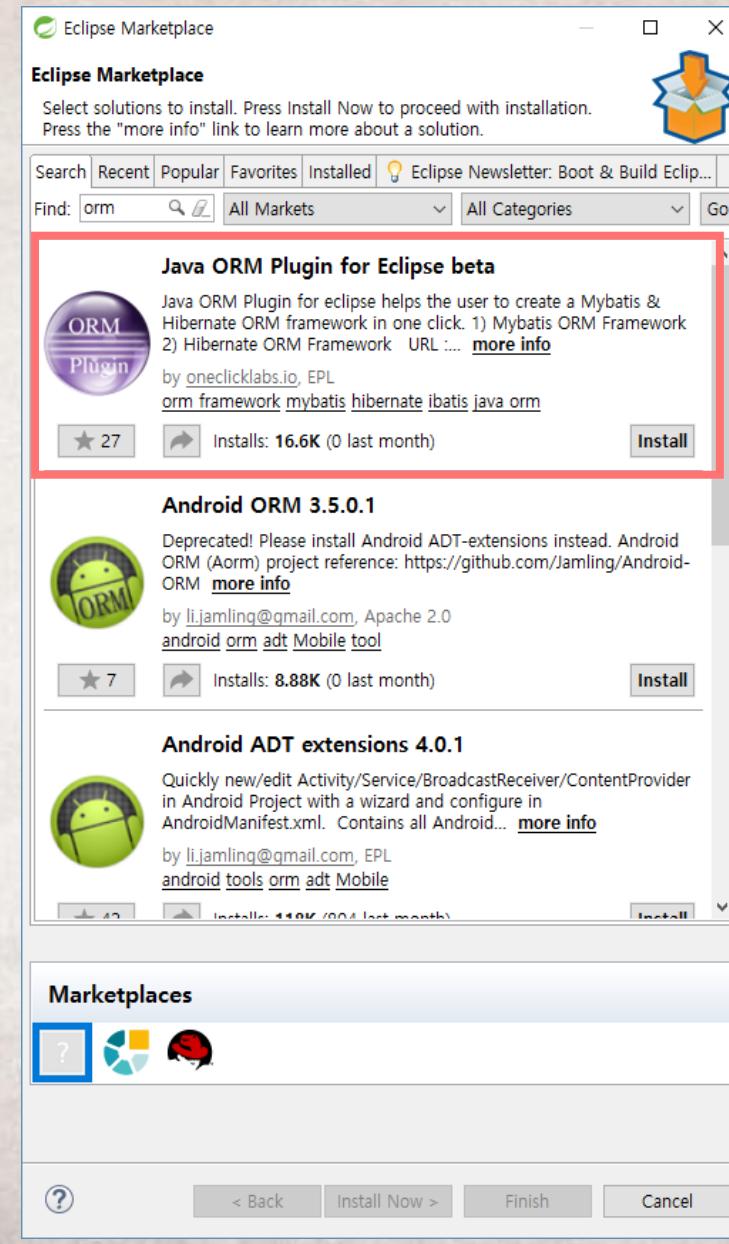
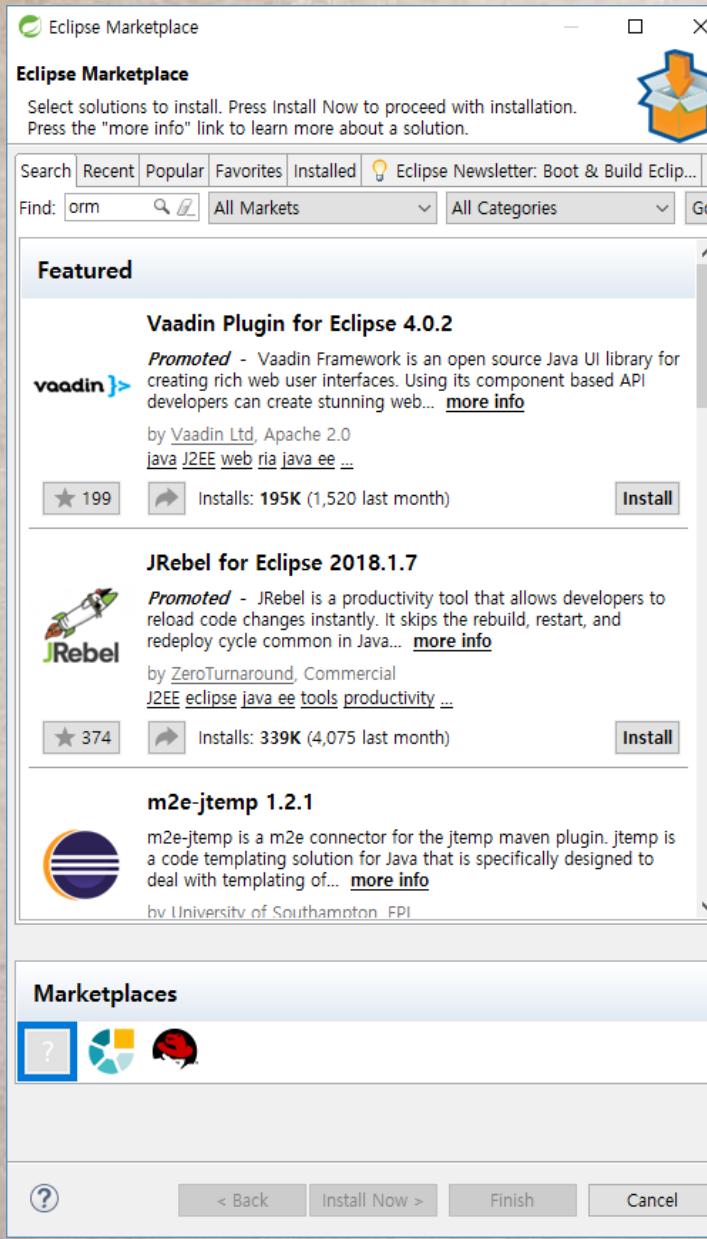
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고급 자바 프로그래밍 : STS를 이용한 Spring 프로그래밍

Mybatis 프레임워크 시작하기

1.1 Mybatis 프레임워크 특징

1.2 ORM 플러그인 설치 → 제대로 다운로드가 안 됨ㅠㅠ



1.3 Maven Dependency작성(pom.xml파일)

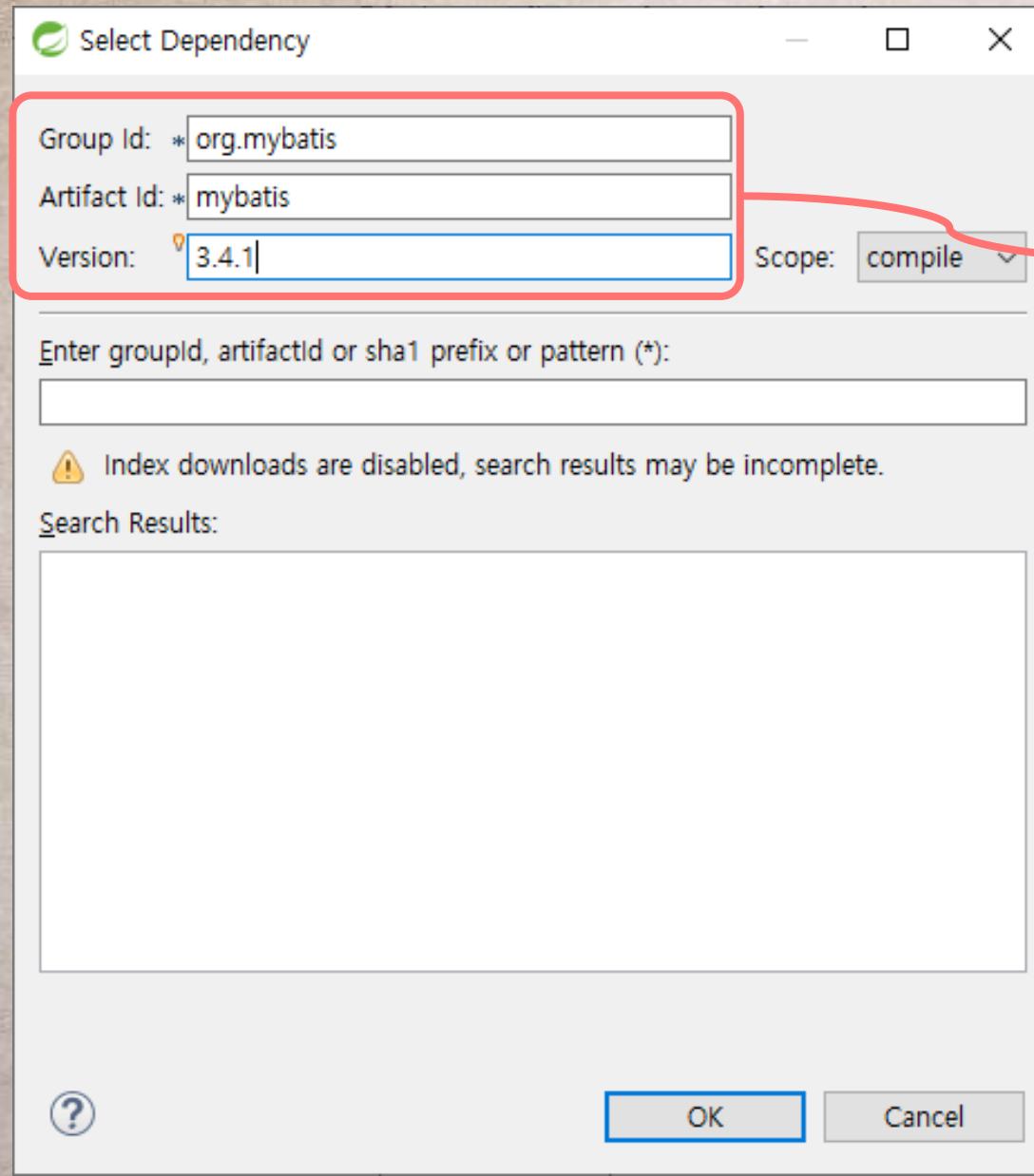
The screenshot shows the Eclipse IDE interface with the Maven Dependencies view open for the project 'BroadWeb/pom.xml'. The 'Dependencies' tab is active, showing a list of dependencies:

- spring-context : \${org.springframework-version}
- spring-webmvc : \${org.springframework-version}
- aspectjweaver : \${org.aspectj-version}
- slf4j-api : \${org.slf4j-version}
- jcl-over-slf4j : \${org.slf4j-version} [runtime]
- slf4j-log4j12 : \${org.slf4j-version} [runtime]
- log4j : 1.2.15 [runtime]
- javax.inject : 1
- servlet-api : 2.5 [provided]
- jsp-api : 2.1 [provided]
- jstl : 1.2
- junit : 4.7 [test]
- h2 : 1.4.197
- commons-dbcop2 : 2.1.1
- spring-jdbc : 4.3.15.RELEASE

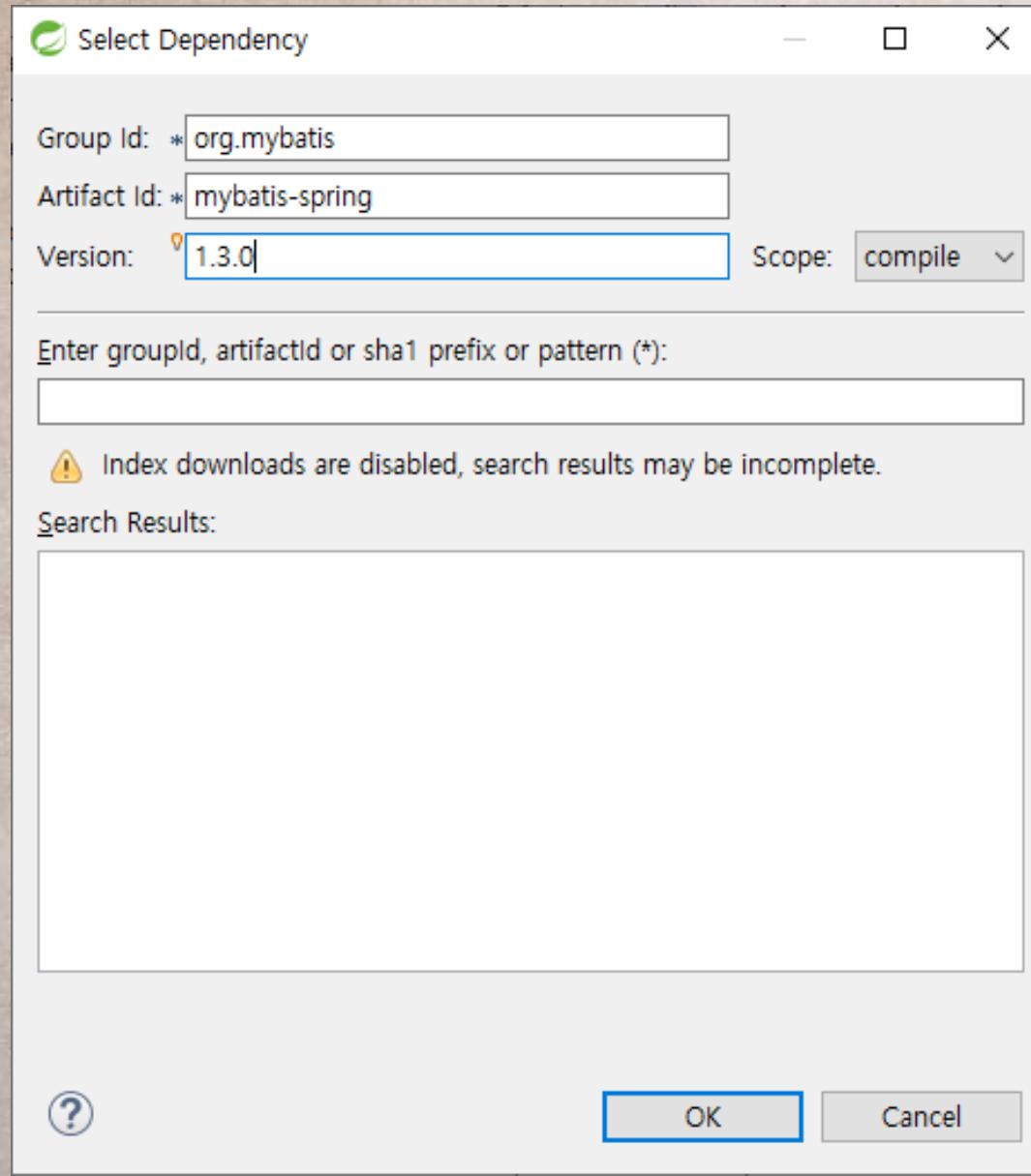
A red box highlights the 'Add...' button in the central toolbar, which is used to add new dependencies. The 'Dependency Management' tab is also visible on the right side of the interface.

To manage your transitive dependency exclusions, please use the [Dependency Hierarchy](#) page.

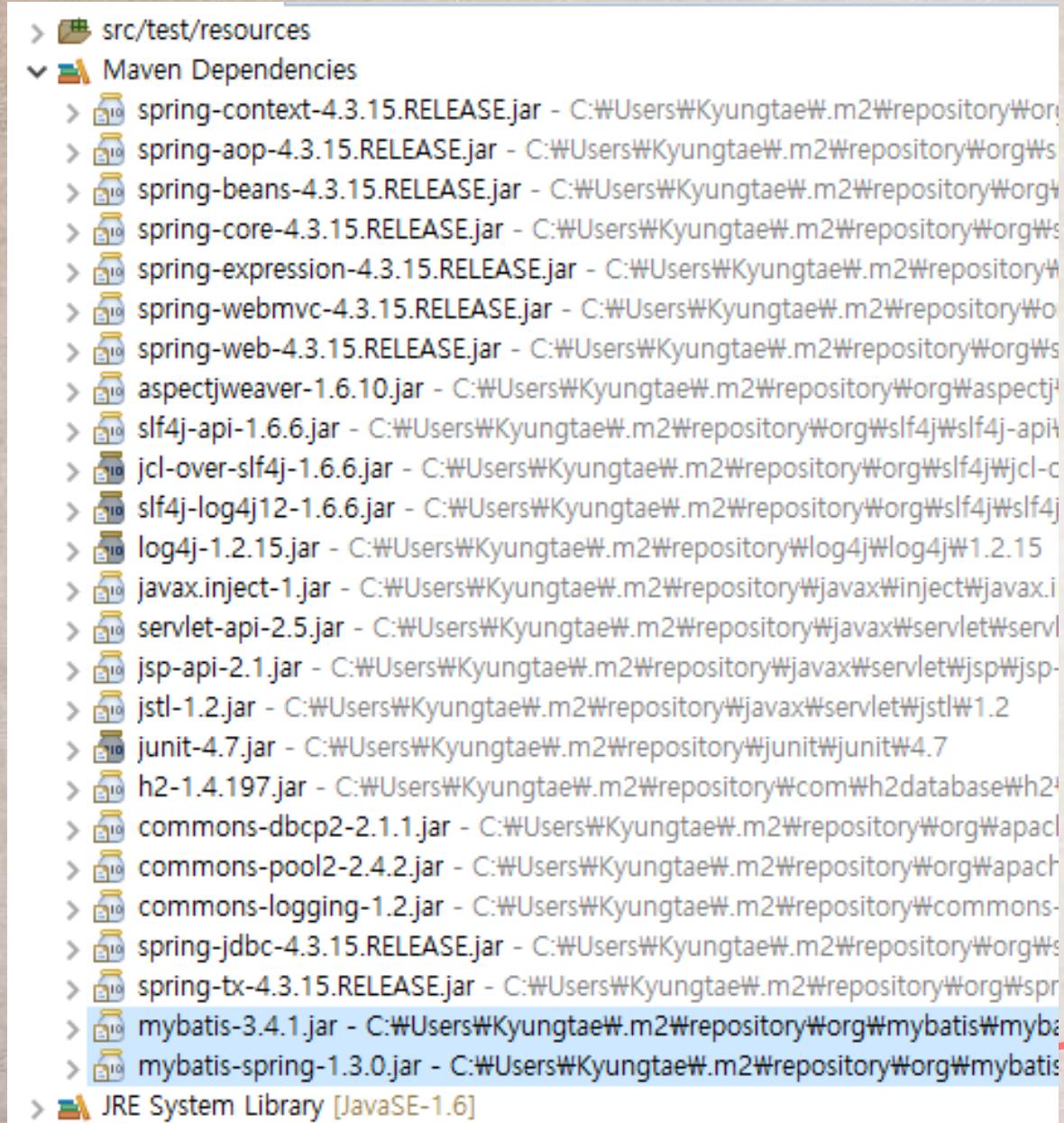
Overview Dependencies Dependency Hierarchy Effective POM pom.xml



Group Id: org.mybatis
Artifact Id: mybatis
Version: 3.4.1



Group Id: org.mybatis
Artifact Id: mybatis-spring
Version: 1.3.0



mybatis-3.4.1.jar
mybatis-spring-1.3.0.jar

servlet-context.xml *root-context.xml

Namespaces

Configure Namespaces
Select XSD namespaces to use in the configuration file

- AOP - http://www.springframework.org/schema/aop
- beans - http://www.springframework.org/schema/beans
- C - http://www.springframework.org/schema/c
- cache - http://www.springframework.org/schema/cache
- context - http://www.springframework.org/schema/context
- JDBC - http://www.springframework.org/schema/jdbc
- JEE - http://www.springframework.org/schema/jee
- lang - http://www.springframework.org/schema/lang
- MVC - http://www.springframework.org/schema/mvc
- mybatis-spring - http://mybatis.org/schema/mybatis-spring
- P - http://www.springframework.org/schema/p
- task - http://www.springframework.org/schema/task
- tx - http://www.springframework.org/schema/tx
- util - http://www.springframework.org/schema/util

Source Namespaces Overview beans context jdbc mvc Beans Graph

root-context.xml 파일

- Namespace 항목 추가하기
 - jdbc
 - mybatis-spring

root-context.xml 수정-DataSource 추가

```
servlet-context.xml root-context.xml applicationContext.xml
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   xmlns:context="http://www.springframework.org/schema/context"
5   xmlns:mvc="http://www.springframework.org/schema/mvc"
6   xmlns:mybatis-spring="http://mybatis.org/schema/mybatis-spring"
7   xmlns:jdbc="http://www.springframework.org/schema/jdbc"
8   xsi:schemaLocation="http://www.springframework.org/schema/jdbc http://www.springframework.org/schema/jdbc/spring-jdbc-4.3.xsd
9     http://www.springframework.org/schema/mvc http://www.springframework.org/schema/mvc/spring-mvc-4.3.xsd
10    http://mybatis.org/schema/mybatis-spring http://mybatis.org/schema/mybatis-spring-1.2.xsd
11    http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans/spring-beans-4.3.xsd
12    http://www.springframework.org/schema/context http://www.springframework.org/schema/context/spring-context-4.3.xsd">
13
14 <context:component-scan base-package="kr.ac.inje.comsi.board"></context:component-scan>
15
16<bean id="dataSource" class="org.springframework.jdbc.datasource.DriverManagerDataSource">
17   <property name="driverClassName" value="ora.h2.Driver"></property>
18   <property name="url" value="jdbc:h2:D:/workspace/h2db/db"></property>
19   <property name="username" value="sa"></property>
20   <property name="password" value=""></property>
21 </bean>
22
23</beans>
24
25
```

각자의 h2database 파일 위치와 파일을 입력

SqlSessionFactory과 SqlSessionFactoryBean 빈 생성

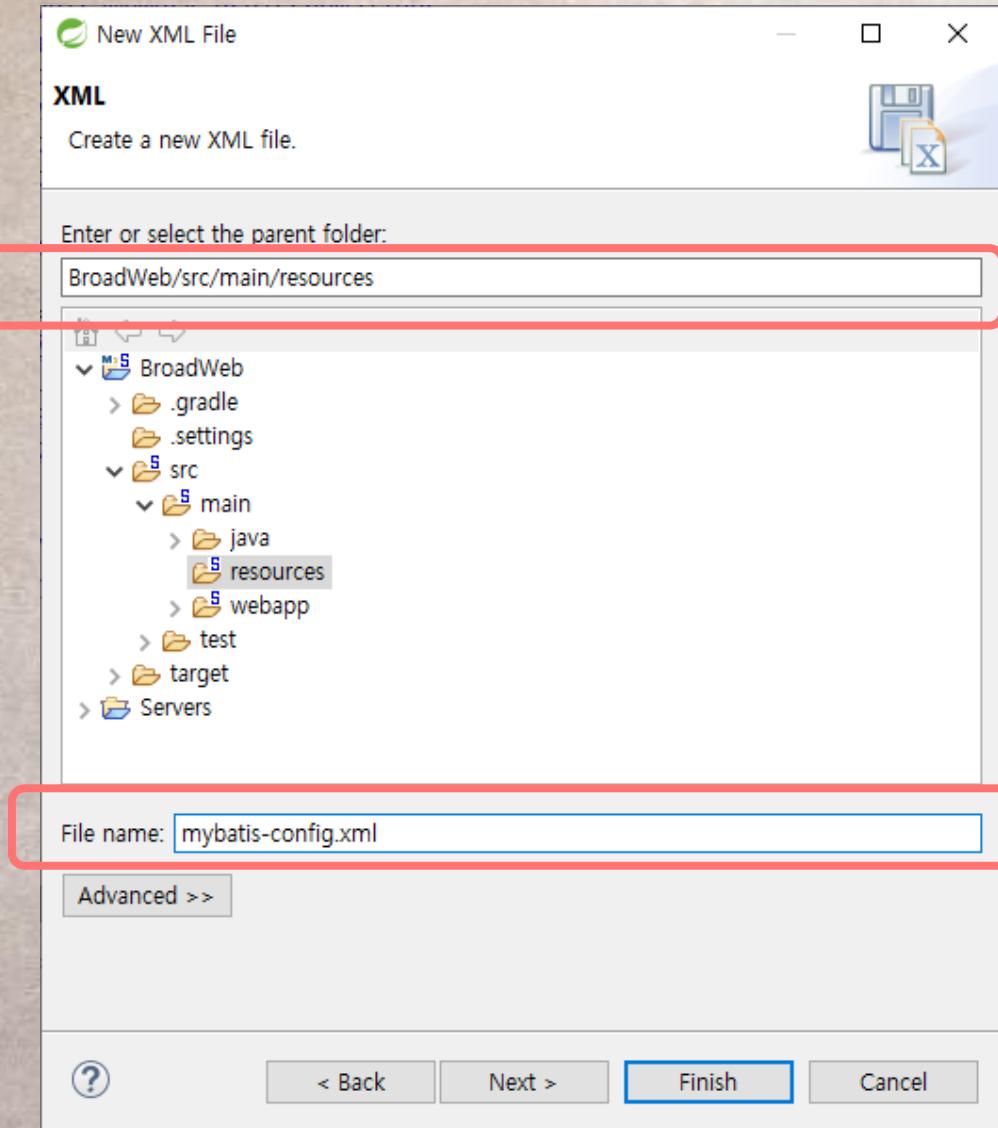
- MyBatis 와 스프링 연동 작업의 핵심은 Connect를 생성하고, 처리하는 SqlSessionFactory의 존재.
 - SqlSessionFactory는 데이터베이스와의 연결과 SQL 의 실행에 대한 모든 것을 가진 중요한 객체.
 - 스프링을 이용할 때는 SqlSessionFactory 를 생성해주는 특별한 객체를 설정할 때 SqlSessionFactoryBean이라는 클래스를 사용한다.
- 다음과 같이 root-context에 추가한다.

```
<bean id="dataSource" class="org.springframework.jdbc.datasource.DriverManagerDataSource">
    <property name="driverClassName" value="org.h2.Driver"></property>
    <property name="url" value="jdbc:h2:D:/workspace/h2db/db"></property>
    <property name="username" value="sa"></property>
    <property name="password" value=""></property>
</bean>

<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
    <property name="dataSource" ref="dataSource"></property>
</bean>
```

SQL Mapping 프레임워크

- MyBatis는 SQL Mapping 프레임워크로 별도의 설정파일을 가짐



BoardWeb/src/main/resources

mybatis-config.xml

mybatis-config.xml 설정

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE configuration PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
   "http://mybatis.org/dtd/mybatis-3-config.dtd">
3
4
5<configuration>
6
7 </configuration>
8
9 |
```

root-context.xml에 mybatis-config.xml을 읽어들이도록 내용 추가

```
<bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
    <!-- mybatis-config.xml 파일이 스프링 시작할 때, 같이 동작하도록 설정 --&gt;
    &lt;property name="configLocation" value="classpath:mybatis-config.xml"&gt;&lt;/property&gt;
    &lt;property name="dataSource" ref="dataSource"&gt;&lt;/property&gt;
&lt;/bean&gt;</pre>
```