

Spring - MyBatis 연동 / 오라클

Spring - MyBatis 연동

❖ 의존 라이브러리

- ojdbc7
- Spring jdbc
- Commons dbcp 1.4 // 커넥션 풀 관리 라이브러리
- MyBatis 3.2.2
- MyBatis-spring 1.2.0

```
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-jdbc</artifactId>
  <version>${org.springframework-version}</version>
</dependency>
```

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❖ 의존 라이브러리

```
<dependency>
  <groupId>commons-dbcp</groupId>
  <artifactId>commons-dbcp</artifactId>
  <version>1.4</version>
</dependency>

<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis</artifactId>
  <version>3.2.2</version>
</dependency>

<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis-spring</artifactId>
  <version>1.2.0</version>
</dependency>
```

Spring - MyBatis 연동

❖ src/main/resources

- database.properties

❖ src/main/resources/config

- mybatis-config.xml MyBatis 설정 XML
- database-context.xml DataSource, MyBatis 스프링 설정

❖ src/main/resources/mapper

- member-mapper.xml SQL 매퍼 xml 파일 배치

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❖ web.xml

- 클래스 패스에 있는 스프링 설정 파일 위치 지정

```
<context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>
    /WEB-INF/spring/root-context.xml
    classpath:config/*-context.xml
  </param-value>
</context-param>
```

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❖ src/main/resources/database.properties

```
database.driver=oracle.jdbc.driver.OracleDriver  
database.url=jdbc:oracle:thin:@localhost:1521:xe  
database.username=iot  
database.password=1234
```

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❖ src/main/resources/config/mybatis-config.xml

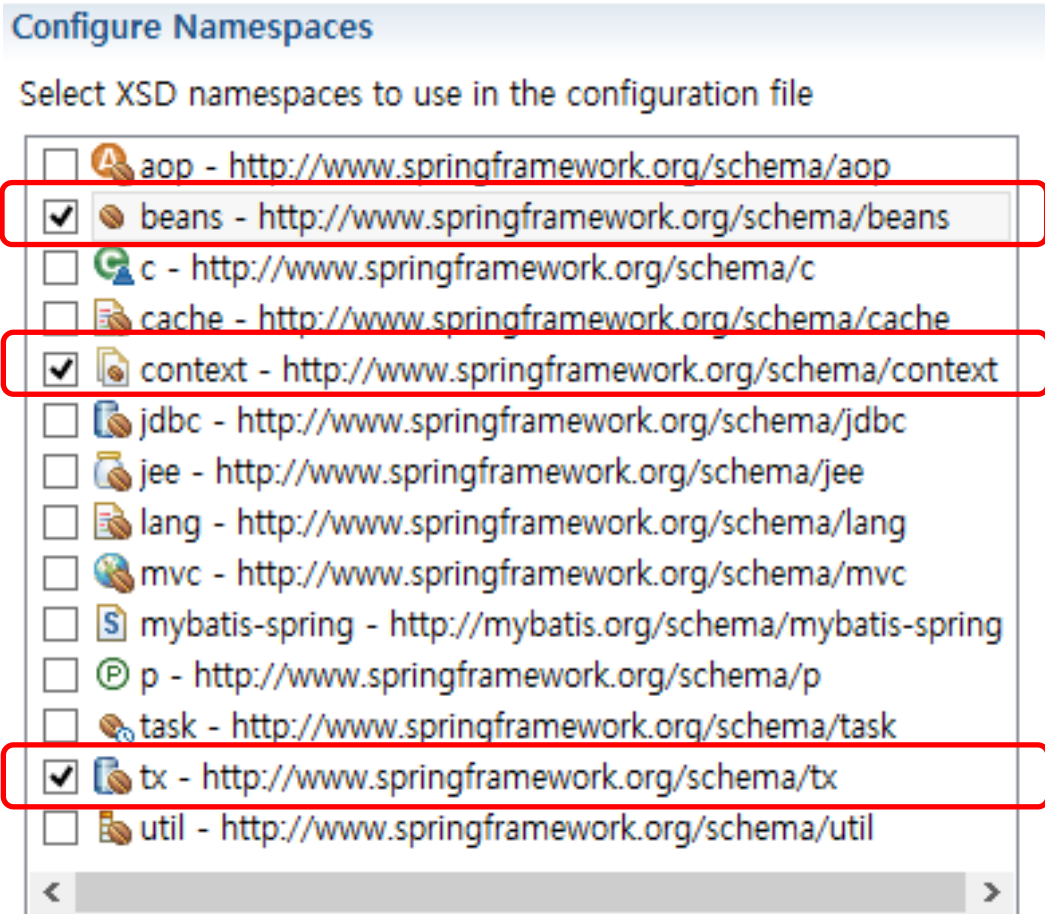
○ MyBatis 설정 XML

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE configuration
  PUBLIC "-//mybatis.org//DTD Config 3.0//EN"
  "http://mybatis.org/dtd/mybatis-3-config.dtd">
<configuration>
  <settings>
    <setting name="cacheEnabled" value="false" />
    <setting name="mapUnderscoreToCamelCase" value="true" />
    <setting name="useGeneratedKeys" value="true" />
  </settings>
</configuration>
```

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❖ src/main/resources/config/database-context.xml

- New > Spring Bean Configuration File



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❖ 데이터소스 설정

- 사용할 데이터베이스 설정 및 커넥션 풀 관리
 - Common DBCP로 데이터베이스 커넥션 관리:
 - **org.apache.commons.dbcp.BasicDataSource**

```
<?xml version="1.0" encoding="UTF-8"?>
<beans ...>

    <context:property-placeholder
        location="classpath:database.properties" />

    <bean id="dataSource"
        class="org.apache.commons.dbcp.BasicDataSource"
        destroy-method="close">
        <property name="driverClassName" value="${database.driver}" />
        <property name="url" value="${database.url}" />
        <property name="username" value="${database.username}" />
        <property name="password" value="${database.password}" />
    </bean>
```

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❖ 데이터소스 설정

- 트랜잭션 처리 설정
 - DataSourceTransactionManager

```
<bean id="transactionManager"
class="org.springframework.jdbc.datasource.DataSourceTransactionManag
er">
    <property name="dataSource" ref="dataSource" />
</bean>

<tx:annotation-driven transaction-manager="transactionManager" />
```

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❖ MyBatis 스프링 설정

- resources/config/database-context.xml
 - SqlSessionFactoryBean 빈 객체 설정

```
<bean id="sqlSessionFactory"
      class="org.mybatis.spring.SqlSessionFactoryBean">
    <property name="dataSource" ref="dataSource" />
    <property name="typeAliasesPackage"
              value="edu.iot.butter.model" />
    <property name="configLocation"
              value="classpath:config/mybatis-config.xml"/>
    <property name="mapperLocations">
      <list>
        <value>classpath:mapper/**/*-mapper.xml</value>
      </list>
    </property>
</bean>
```

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❖ MyBatis 스프링 설정

- resources/config/database-context.xml
 - Dao 자동 생성 빈 : MapperScannerConfigurer

```
<bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">  
    <property name="basePackage"  
        value="edu.iot.butter.dao" />  
</bean>  
  
</beans>
```

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❖ Dao 인터페이스 정의

○ BaseDao

```
public interface BaseDao<M, K> {  
  
    int getCount() throws Exception;  
  
    List<M> selectList(Map map) throws Exception;  
  
    M selectOne(K k) throws Exception;  
  
    int insert(M m) throws Exception;  
  
    int update(M m) throws Exception;  
  
    int delete(K k) throws Exception;  
  
}
```

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❖ Dao 인터페이스 정의

- MemberDao

```
public interface MemberDao extends BaseDao<Member, String>{  
  
}
```

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❖ Service 인터페이스 정의

○ MemberService

```
public interface MemberService {  
    Member checkLogin(Login login);  
    :  
}
```

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❖ Service 인터페이스 구현 정의

- MemberServiceImpl

@Service

```
public class MemberServiceImpl implements MemberService {  
    @Autowired  
    MemberDao dao;  
    :  
}
```