

- ch12로 변경 했으니 servlet-context.xml에서 ch12 로 변경

## - porm.xml 에 추가

```
x web.xml
        x servlet-context.xml
                      index.jsp
                               in ch12_jdbcTemplate/pom.xml x
               <version>4.7</version>
               <scope>test</scope>
            <groupId>org.projectlombok
            <artifactId>lombok</artifactId>
            <version>1.18.24
            <scope>provided</scope>
        </dependency>
130●
               <groupId>org.springframework
               <artifactId>spring-jdbc</artifactId>
               <version>4.2.9.RELEASE
            </dependency>
<!-- JDBC Template 둘 중에 하나 -->
<dependency>
              <groupId>org.springframework
              <artifactId>spring-jdbc</artifactId>
              <version>4.1.4.RELEASE
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
              <dependency>
                  <groupId>org.springframework
                  <artifactId>spring-jdbc</artifactId>
                  <version>4.2.9.RELEASE
              </dependency>
```

## -Maven에서 확인

# 🗸 🎒 Libraries > A JRE System Library (JavaSE-1.6) ✓ Maven Dependencies > 👼 spring-context-3.1.1.RELEASE jar - C:\Users\user\user\undarg\undargerpository\undarg\undarg\undargram \$\int\_{\infty}\$ spring-aop-3.1.1.RELEASE.jar - C:\(\pi\)Users\(\pi\)user\(\pi\).m2\(\pi\)repository\(\pi\)copy\(\pi\)co > 💀 spring-core-3.1.1.RELEASE.jar - C:\Users\user\user\underm2\repository\u00fcorg\u00fcspringframew > 50 spring-expression-3.1.1.RELEASE jar - C. #Users #user#.m2#repository#org#springfr > 50 spring-asm-3.1.1.RELEASE.jar - C. #Users #user#.m2#repository#org#springframew > a spring-webmyc-3.1.1.RELEASE.jar - C:#Users#user#.rn2#repository#org#springfrar > 📠 spring-context-support-3.1.1.RELEASE.iar - C:\Users\user\user\underm2\underprepository\underg\underg aspectjrt-1.6.10.jar - C:#Users#user# m2#repository#org#aspectjr#aspectjrt#1.6.10 > 🚠 slf4j-api-1.6.6.jar - C:#Users#user#.m2#repository#org#slf4j#slf4j-api#1.6.6 > \*\* servlet-api-2.5.jar - C:#Users#user#.m2#repository#javax#servlet#servlet-api#2.5 junit-4.7.jar - C:#Users#user#.m2#repository#junit#junit#4.7 > 🚠 lombok-1.18.24.jar - C:#Users#user# m2#repasitory#arg#projectlombok#lambok# 5 spring-tx-4.2.9.RELEASE.jar - C:#Users#user#.m2#repository#org#springframeworl

-src/main/resources 에 무조건 밑에 있어야함 -property 밑에 파일 db.properties 생성



```
web.xml  servlet-context.xml  index.jsp  ch12.jdbcTemplate/pom.xml  db.properties  
1 db.driverClassName=oracle.jdbc.driver.OracleDriver
2 db.url=jdbc:oracle:thin:@localhost:1521:xe
3 db.username=scott
4 db.password=tiger
```

-db 연결정보 ! 띄어쓰기 금지!

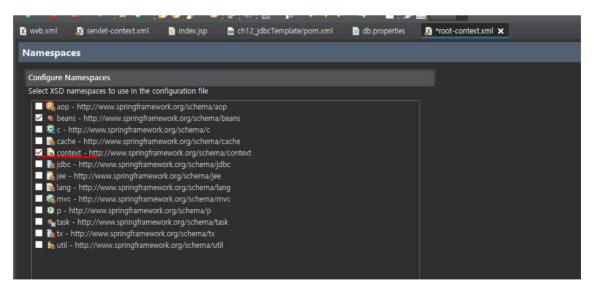
db.driverClassName=oracle.jdbc.driver.OracleDriver

db.url=jdbc:oracle:thin:@localhost:1521:xe

db.username=scott

db.password=tiger 추가!

-root 에 context 체크



#### - 체크후 추가

```
| webxml | serviet-contextxml | index.jsp | index.jsp
```

-자바에서 DriverManagerDataSource 임폴트만 해서 주소 복사 후 지우기

```
package com.lec.ch12.controller;

package com.lec.ch12.controller;

import javax.servlet.http.HttpServletRequest;

import org.springframework.jdbc.datasource.DriverManagerDataSource;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.ModelAttribute;

// mucboard/list.do, (에면원리하답병식)mbcboard/write.do writeView.do(서비스 필요업음) db 연동 하는에만 서비스 필요함,

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMapping;

import com.lec.ch12.bservice.BContentService;

import com.lec.ch12.bservice.BListService;

import com.lec.ch12.bservice.BNodifyReplyViewService;

import com.lec.ch12.bservice.BNodifyReplyViewService;

import com.lec.ch12.bservice.BWriteService;

import com.lec.ch12.bservice.BWriteService;

import com.lec.ch12.bservice.Service;

import com.lec.ch12.dto.BoardOto;

@Controller

@Controller

@Controller

import com.lec.ch12.dto.BoardOto;

### Controller

import com.lec.ch12.dto.BoardOto;

######### Controller

priverManagerDataSource
```

-class = 복붙 value 에 db.pro 넣기

## db.pro 받아오기 root-context.xml에 받아오기!

```
| Company | Content | Cont
```

```
<u>똑같이 jdbcTempleat 받아오기</u>
```

```
- 컨트롤러에서 jdbc 생성 (Dao에서 사용하기위해)

public class BoardController {
    private Service bservice;

private JdbcTemplate template;
@Autowired
    public void setTemplate(JdbcTemplate template) {
        this.template = template;
        // 이 프로젝트 전체에서 template을 다 쓸 수 있도록
```

### - Constant 만들기

```
Java Resources

Viz > src/main/java

Viz > com.lec.ch12.bservice

Viz > com.lec.ch12.controller

Viz BoardController.java

Viz > com.lec.ch12.dao

Viz > com.lec.ch12.dto

Viz > com.lec.ch12.util

Viz Constant.java
```

- Constant Jdbc 만들기

```
package com.lec.ch12.util;
import org.springframework.jdbc.core.JdbcTemplate;

public class Constant {
    public static JdbcTemplate template;
}
```

- 다시 컨트롤러에서 Constant.template

public class BoardController {
 private Service bservice;

 private JdbcTemplate template;
 @Autowired
 public void setTemplate(JdbcTemplate template) {
 this.template = template;
 // 이 프로젝트 전체에서 template을 다 쓸 수 있도록
 Constant.template = this.template;
 }

 @RequestMapping(value="/list", method = RequestMethod

```
-Dao

import java.sql.Connection;

public class BoardDao {
    public static final int FAIL = 0;
    public static final int SUCCESS = 1;
    public JdbcTemplate template;
```

```
private BoardDao() {
    template = Constant.template;
}
private Connection getConnection() three
```

```
글목록 quer 물음표 Prepar
public ArrayList<BoardDto> boardList(int startRow, int endRow){
     String sql = "SELECT * FROM (SELECT ROWNUM RN, A.* " +
      return (ArrayList<BoardDto>) template.quer
      ArrayList<BoardDto> dtos = new ArrayLis query(PreparedStatementCreator psc, ResultSetExtractor<T> rse): T-^
                                                                                                   Query u
ResultSe
     Connection conn = null;

    query(PreparedStatementCreator psc, RowMapper<T> rowMapper) : I

      PreparedStatement pstmt = null;
                                                   • query(String sql, ResultSetExtractor<T> rse) : T - Jdb
                                                                                                   configu
                                                   query(String sql, RowMapper<T> rowMapper) : List<T> -
      ResultSet

    query(PreparedStatementCreator psc, PreparedStatementSetter pss, R

                                                                                                   Specifie
                                                   query(String sql, Object[] args, ResultSetExtractor<T> rse) : T -
                                                                                                    Type Pa
          conn = getConnection();
                                                   query(String sql, Object[] args, RowMapper<T> rowMapper) : List<T>
          pstmt = conn.prepareStatement(sq1); query(String sql, PreparedStatementSetter pss, ResultSetExtractor<T>
                                                                                                   Parame
- 인터페이스는 뉴 못하니 밑에껄로

    new Pre, new BeanPropertyRowMapper<BoardDto>(BoardD

                                                                                                  Ge
Dto>();
                     PreparedStatementSetter – org.springframework.jdbc.core
                     PreparedStatementSetter() Anonymous Inner Type - org.springframe
                                                                                                  Thi

    Preconditions() - Idk Internal util Preconditions

                                                                                                  by
- final을 해라
   public ArrayList<BoardDto> boardList(final int startRow, int endRow){
        String sql = "SELECT * FROM (SELECT ROWNUM RN, A.* " +
        return (ArrayList<BoardDto>) template.query(sql, new PreparedStatementSetter
             @Override
             public void setValues(PreparedStatement pstmt) throws SQLException {
                  pstmt.setInt(1, startRow);
                  pstmt.setInt(2, endRow);
-querForObject
   public int getBoardTotCnt() {
       String sql = "SELECT COUNT(*) FROM MVC BOARD";
```

return template.queryForObject(sql, Integer.class); // sql queryForObject : 한출만 입력 받는아이