

230316 스프링

MyBatis for CarShop

▼ pom.xml 6개

```
<!-- https://mvnrepository.com/artifact/org.mybatis/mybatis -->
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis</artifactId>
  <version>3.5.6</version>
</dependency>

<!-- https://mvnrepository.com/artifact/org.mybatis/mybatis-spring -->
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis-spring</artifactId>
  <version>2.0.4</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework/spring-jdbc -->
<dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-jdbc</artifactId>
  <version>5.3.19</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.apache.commons/commons-dbcp2 -->
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-dbcp2</artifactId>
  <version>2.7.0</version>
</dependency>
<!-- https://mvnrepository.com/artifact/org.bgee.log4jdbc-log4j2/log4jdbc-log4j2-jdbc4 -->
<dependency>
  <groupId>org.bgee.log4jdbc-log4j2</groupId>
  <artifactId>log4jdbc-log4j2-jdbc4</artifactId>
  <version>1.16</version>
</dependency>

<!-- https://mvnrepository.com/artifact/mysql/mysql-connector-java -->
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>8.0.28</version>
</dependency>
```

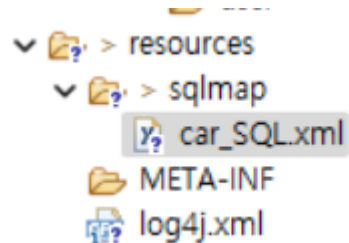
▼ root-context.xml 3개

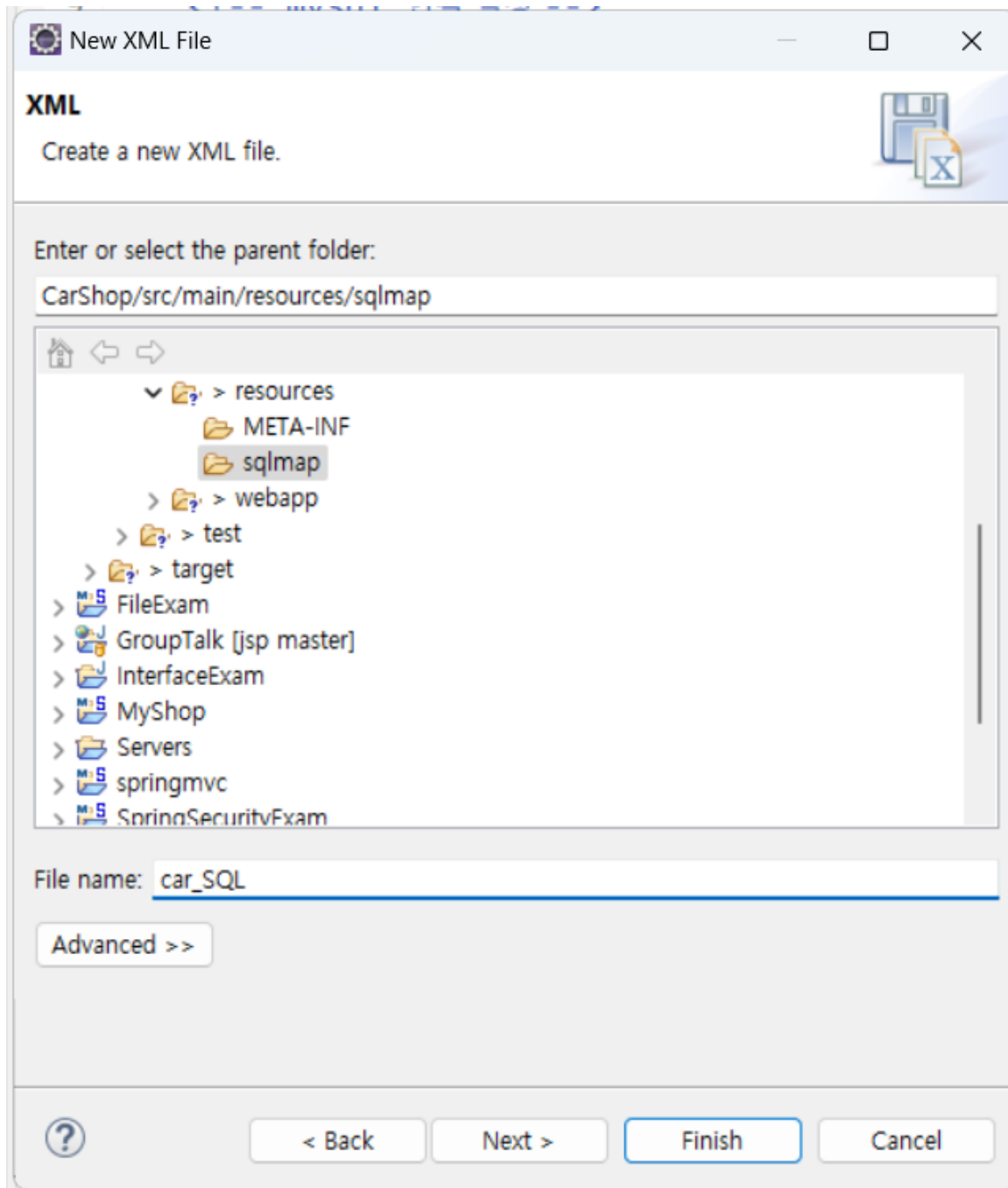
```
<!-- mysql 연결 설정 -->
<bean id="dataSource"
      class="org.apache.commons.dbcp2.BasicDataSource"
      destroy-method="close">
  <property name="driverClassName"
    value="com.mysql.cj.jdbc.Driver" />
  <property name="url"
    value="jdbc:mysql://localhost:3306/yonkeunsoo?serverTimezone=UTC" />
  <property name="username" value="yonkeunsoo" />
  <property name="password" value="guest0505" />
</bean>

<bean id="sqlSessionFactory"
      class="org.mybatis.spring.SqlSessionFactoryBean">
  <property name="dataSource" ref="dataSource" />
  <property name="mapperLocations"
    value="classpath:/sqlmap/**/*.xml" />
</bean>

<bean id="sqlSessionTemplate"
      class="org.mybatis.spring.SqlSessionTemplate">
  <constructor-arg index="0" ref="sqlSessionFactory" />
</bean>
```

▼ Mapper 생성





C R U D

▼ Create



parameterType 확인 !!

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE mapper PUBLIC "-//mybatis.org/DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
3 <mapper namespace="car">
4
5 <insert id="insert" parameterType="com.carshop.controller.CarDTO" useGeneratedKeys="true" keyProperty="cid">
6
7     <![CDATA[
8         INSERT INTO car(cid, cname, cpirce, ccate, cdesc, cfilename)
9         VALUES (#{cid}, #{cname}, #{cpirce}, #{ccate}, #{cdesc}, #{cfilename})
10
11     ]]>
12
13 </insert>
14
15
16
17
18 </mapper>

```

```

@Autowired
SqlSessionTemplate sqlSessionTemplate;

public void setNewCar(CarDTO car) {
    this.sqlSessionTemplate.insert("car.insert", car);
}

```

컨트롤러에서 사진 이름 추출 코드 추가

```

@PostMapping("/add")
public String submitAddNewCar(@ModelAttribute("NewCar") CarDTO car) {

    MultipartFile carimage = car.getCarimage();

    String saveName = carimage.getOriginalFilename();
    File saveFile = new File(uploadPath + "\\images", saveName);

    if (carimage != null && !carimage.isEmpty()) {
        try {
            carimage.transferTo(saveFile);
            car.setCfilename(saveName);
        } catch (Exception e) {
            throw new RuntimeException("차량 이미지 업로드가 실패했습니다.");
        }
    }

    carService.setNewCar(car);
    return "redirect:/cars";
}

```

secure3141.car: 4 행 (총) (대략적)

| cid | cname | cprice | ccate | cdesc | cfilename |
|-------|--------|--------|-------|---------|-----------|
| c0001 | 람보르기니 | 9000 | 중형 | 판매중입니다. | c0001.jpg |
| c0002 | 그랜저 | 4000 | 준대형 | 중고 | c0002.jpg |
| c0003 | avante | 2000 | 준중형 | 신동급 | c0003.jpg |
| 벤츠 | 벤츠 | 8000 | 신형 | 벤츠예요 | 이.png |

C R U D

▼ Read

list

mapper

```
<select id="select_list" parameterType="com.carshop.controller.CarDTO"
        resultType="com.carshop.controller.CarDTO">
    <![CDATA[
        select
        *
        from
        car
    ]]>
</select>
```

Repository

```
@Override
public List<CarDTO> getAllCarList() {

    return this.sqlSessionTemplate.selectList("car.select_list");
}
```

Service - Controller - View

detail

mapper

```
<select id="select_detail" parameterType="String"
        resultType="com.carshop.controller.CarDTO">
    <![CDATA[
        select
        *
        from
        car
        where
        cid = #{cid}
    ]]>
</select>
```

Repository

```
public CarDTO getCarById(String cid) {  
  
    return this.sqlSessionTemplate.selectOne("car.select_detail", cid);  
}
```

Service - Controller - View

C R U D

▼ Update

mapper

```
33<update id="update1" parameterType="com.carshop.controller.CarDTO">  
34  
35    <![CDATA[  
36      UPDATE car  
37      SET cname = #{cname}, cprice = #{cprice}, ccate = #{ccate}, cdesc = #{cdesc}, cfilename = #{cfilename}  
38      WHERE cid = #{cid}  
39    ]]>  
40  
41  </update>  
42  
43<update id="update2" parameterType="com.carshop.controller.CarDTO">  
44  
45    <![CDATA[  
46      UPDATE car  
47      SET cname = #{cname}, cprice = #{cprice}, ccate = #{ccate}, cdesc = #{cdesc}  
48      WHERE cid = #{cid}  
49    ]]>  
50  
51  </update>  
52
```

Repository

```

52 // 차량 수정
53 @Override
54 public void setUpdateCar(CarDTO car) {
55
56
57     if(car.getCfilename() != null) { //사진을 바꿀때
58         this.sqlSessionTemplate.update("car.update1", car);
59     } else if(car.getCfilename() == null) { //사진을 안바꿀때
60         this.sqlSessionTemplate.update("car.update2", car);
61     }
62
63
64
65 }
66

```

Service

```

40 // 차량 정보 수정
41 @Override
42 public void setUpdateCar(CarDTO car) {
43     carRepository.setUpdateCar(car);
44 }
45

```

Controller

```

83
84 //차량 정보 수정
85 @GetMapping("/update")
86 public String getUpdateCarForm(@ModelAttribute("updateCar") CarDTO car, @RequestParam("id") String carId, Model model) {
87
88     CarDTO carById = carService.getCarById(carId);
89     model.addAttribute("car", carById);
90
91     return "updateForm";
92 }
93
94 // 차량 정보 수정
95 @PostMapping("/update")
96 public String submitUpdateCarForm(@ModelAttribute("updateCar") CarDTO car) {
97
98     MultipartFile carimage = car.getCarimage();
99
100     if (carimage != null && !carimage.isEmpty()) {
101         try {
102             String saveName = carimage.getOriginalFilename();
103             File saveFile = new File(uploadPath + "\\images", saveName);
104             carimage.transferTo(saveFile);
105             car.setCfilename(saveName);
106         } catch (Exception e) {
107             throw new RuntimeException("차량 이미지 업로드가 실패했습니다.");
108         }
109     }
110
111     carService.setUpdateCar(car);
112     return "redirect:/cars";
113 }
114
115 }
116

```


View

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<%@ taglib uri="http://www.springframework.org/tags/form" prefix="form"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>Insert title here</title>
</head>
<body>

    <div class="container">
        <div class="row">
            <div class="col-md-4">

                "
                    style="width: 100%" />
            </div>

            <form:form modelAttribute="updateCar"
                action="./update?${_csrf.parameterName}=${_csrf.token}"
                class="form-horizontal"
                method = "post"
                enctype="multipart/form-data">
                <fieldset>

                    <div class="col-md-8">

                        <br>
                        <p>
                            <b>제품코드 : </b>${car.cid}
                        <p>
                            <form:input path="cid" type="hidden" class="form-control"
                                value="${car.cid}" />
                        <p>
                            <form:input path="cname" class="form-control" value="${car.cname}" />
                        <p>
                            <form:input path="cprice" class="form-control"
                                value="${car.cprice}" />
                        <p>
                            <form:input path="ccate" class="form-control" value="${car.ccate}" />
                        <p>
                            <form:input path="cdesc" class="form-control" value="${car.cdesc}" />
                        <p>
                            <form:input path="carimage" type="file" class="form-control" />
                        <br>
                        <input type="submit" class="btn btn-warning"
                            value="제품수정 &raquo;" />
                        <a href="<c:url value="/cars"/>"
                            class="btn btn-secondary">제품목록 &raquo;</a>
                    </div>
                </fieldset>
            </form:form>
        </div>
    </div>
</body>
</html>
```

```

        </div>

        </fieldset>
    </form:form>

    <h3></h3>

    <p>

    </div>
</div>

</body>
</html>

```

tiles.xml

```

<definition name="updateForm" extends="base-Template">
    <put-attribute name="title" value="Update" />
    <put-attribute name="heading" value="제품 수정" />
    <put-attribute name="subheading" value="Update" />
    <put-attribute name="content" value="/WEB-INF/views/updateForm.jsp" />
</definition>

```