Spring MyBatis

BookStore SELECT One by MyBatis

MyBatis 이용하여 C R U D 처리

book_SQL.xml

parameterType	hashMap
resultType	hashMap

Class

BookRepository

```
Map<String, Object> selectDetail(Map<String, Object> map);
```

BookRepositoryImpl

```
selectOne
```

쿼리 행 수 0 이면 null 반환

결과 여러개면 예외 발생

한개만!

```
@Override
public Map<String, Object> selectDetail(Map<String, Object> map) {
   return this.sqlSessionTemplate.selectOne("book.select_detail", map);
}
```

BookService

```
Map<String, Object> detail(Map<String, Object> map);
```

BookServiceImpl

```
@Override
public Map<String, Object> detail(Map<String, Object> map) {
   return this.bookRepository.selectDetail(map);
}
```

BookController

```
@GetMapping("/detail")
public ModelAndView detail(@RequestParam Map<String, Object> map) {
   Map<String, Object> detailMap = this.bookService.detail(map);

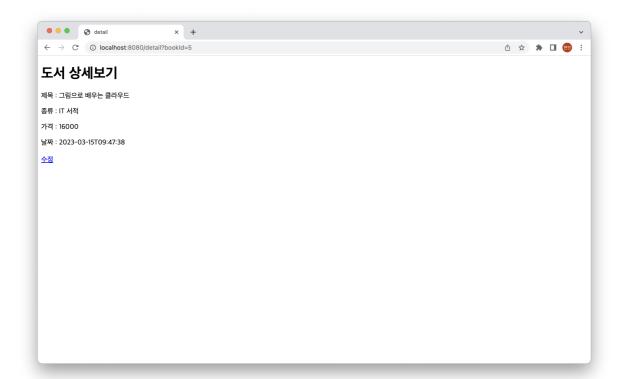
   ModelAndView mav = new ModelAndView();
   mav.addObject("data", detailMap);
   String bookId = map.get("bookId").toString();
   mav.addObject("bookId", bookId);
   mav.setViewName("book/detail");

   return mav;
}
```

View

detail.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
    pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>detail</title>
</head>
<body>
<h1>도서 상세보기</h1>
제목 : ${data.title }
주류 : ${data.category }
'P3 : ${data.price }
'E3 : ${data.insert_date }
```



BookStore UPDATE by MyBatis

MyBatis 이용하여 C R **U** D 처리

book_SQL.xml

```
<update id="update" parameterType="hashMap">
  <![CDATA[
    UPDATE book
    SET
    title = #{title}, category = #{category}, price = #{price}
    WHERE
    book_id = #{bookId}
]]>
</update>
```

Class

BookRepository

```
int update(Map<String, Object> map);
```

BookRepositoryImpl

```
@Override
public int update(Map<String, Object> map) {
   return this.sqlSessionTemplate.update("book.update", map);
}
```

BookService

```
boolean update(Map<String, Object> map);
```

BookServiceImpl

```
@Override
public boolean update(Map<String, Object> map) {
  int affectRowCount = this.bookRepository.update(map);
  return affectRowCount == 1;
}
```

BookController

```
@PostMapping("/update")
public ModelAndView updatePost(@RequestParam Map<String, Object> map) {

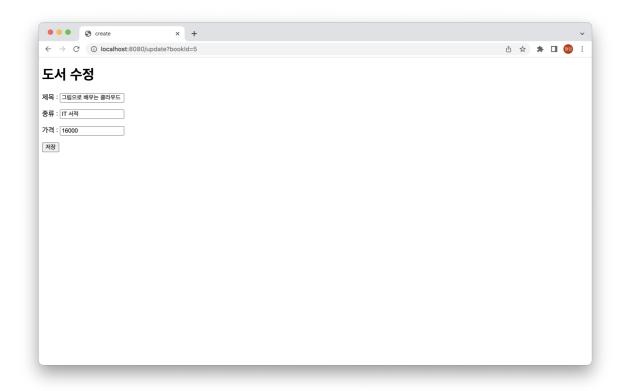
ModelAndView mav = new ModelAndView();

boolean isUpdateSuccess = this.bookService.update(map);
if(isUpdateSuccess) {
   String bookId = map.get("bookId").toString();
   mav.setViewName("redirect:/detail?bookId=" + bookId);
} else {
   mav = this.update(map);
}
return mav;
}
```

View

update.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
  pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>create</title>
</head>
<body>
 <h1>도서 수정</h1>
 <form method="post">
     제목 : <input type="text" name="title" value="${data.title }"/>
    >
     종류 : <input type="text" name="category" value="${data.category }"/>
    >
     가격 : <input type="text" name="price" value="${data.price }"/>
     <input type="submit" value="저장" />
  </form>
</body>
</html>
```



🎉 MyBatis UPDATE 성공

	book_id	title	category	price	insert_date
	1	2	2	2	2023-03-14 12:52:30
	2	1	1	1	2023-03-14 14:07:46
	3	스프링 5 마스터	IT 서적	40000	2023-03-14 17:04:06
	4	Do it! 파이썬 생활프로그래밍	IT 서적	20000	2023-03-15 09:43:17
	5	그림으로 배우는 클라우드	IT	5000	2023-03-15 09:47:38
	NULL	NULL	NULL	NULL	NULL

BookStore SELECT All, DELETE by MyBatis

MyBatis 이용하여 C R U D 처리

book_SQL.xml

Class

BookRepository

```
List<Map<String, Object>> selectList(Map<String, Object> map);
int delete(Map<String, Object> map);
```

BookRepositoryImpl

```
@Override
public List<Map<String, Object>> selectList(Map<String, Object> map) {
   return this.sqlSessionTemplate.selectList("book.select_list", map);
}

@Override
public int delete(Map<String, Object> map) {
   return this.sqlSessionTemplate.delete("book.delete", map);
}
```

BookService

```
List<Map<String, Object>> list(Map<String, Object> map);
boolean delete(Map<String, Object> map);
```

BookServiceImpl

```
@Override
public List<Map<String, Object>> list(Map<String, Object> map) {
   return this.bookRepository.selectList(map);
}

@Override
public boolean delete(Map<String, Object> map) {
   int result = this.bookRepository.delete(map);
   return result == 1;
}
```

BookController

```
@RequestMapping("/list")
public ModelAndView list(@RequestParam Map<String, Object> map) {
  List<Map<String, Object>> list = this.bookService.list(map);
  ModelAndView mav = new ModelAndView();
  mav.addObject("data", list);
  mav.setViewName("book/list");
  return mav;
}
@PostMapping("/delete")
public ModelAndView deletePost(@RequestParam Map<String, Object> map) {
  ModelAndView mav = new ModelAndView();
  boolean isDeleteSuccess = this.bookService.delete(map);
  if(isDeleteSuccess) {
   mav.setViewName("redirect:/list");
 } else {
   String bookId = map.get("bookId").toString();
   mav.setViewName("redirect:/detail?bookId=" + bookId);
  return mav;
}
```

View

list.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"</pre>
 pageEncoding="UTF-8"%>
<%@ taglib prefix="fmt" uri="http://java.sun.com/jsp/jstl/fmt"%>
<%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>list</title>
</head>
<body>
 <h1>도서 목록</h1>
 <thead>
     제목
       >종류
       가격
     </thead>
   <c:forEach var="row" items="${data }">
         <a href="/detail?bookId=${row.book_id }">${row.title }</a>
```

detail.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
   pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head>
<meta charset="UTF-8">
<title>detail</title>
</head>
<body>
   <h1>도서 상세보기</h1>
   제목: ${data.title}
<<ff: ${data.category}</p>
```

🎉 MyBatis DELETE 성공

	book_id	title	category	price	insert_date
•	3	스프링 5 마스터	IT 서적	40000	2023-03-14 17:04:06
	4	Do it! 파이썬 생활프로그래밍	IT 서적	20000	2023-03-15 09:43:17
	5	그림으로 배우는 클라우드	IT	5000	2023-03-15 09:47:38
	NULL	NULL	NULL	NULL	NULL

BookStore 검색 by MyBatis

MyBatis 이용하여 검색 처리

book_SQL.xml

where 1=1

• 관습적인 표현이다. 1 과 1은 같다는 항상 참이다. 따라서 검색 조건을 and로 연결하기위 해 사용된다.

<if>...</if>

- 마이바티스에서 조건을 표현한다. test 는 조건의 규칙을 나타내는 표현이다.
- 만약 키워드가 있으면 (null이 아니고 값이 없지도 않으면) if 구문이 쿼리에 포함된다.
- 이와 같이 쿼리의 내용이 파라미터가 아닌 마이 바티스의 규칙에 따라 변경되는 것을 동적 쿼리 Dynamic Query 라고 한다.

like '0 %'	'이' 로 시작	이사, 이동
like '%0 '	'이' 로 끝	겁쟁이, 일찍이
like '% 0 %'	앞뒤 상관없이 '이' 포함	이미지, 파이썬

Class

BookController

```
@RequestMapping(value="/list")
public ModelAndView list(@RequestParam Map<String, Object> map) {
  List<Map<String, Object>> list = this.bookService.list(map);

  ModelAndView mav = new ModelAndView();
  mav.addObject("data", list);

  if (map.containsKey("keyword")) {
    mav.addObject("keyword", map.get("keyword"));
  }

  mav.setViewName("/book/list");
  return mav;
}
```

View

list.jsp

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

```
<h1>도서 목록</h1>
 >
 <form>
  <input type="text" placeholder="검색" name="keyword" value="${keyword}" />
  <input type="submit" value="검색" />
 </form>
 <thead>
    제목
     종류
     가격
    </thead>
  <c:forEach var="row" items="${data }">
       <a href="/detail?bookId=${row.book_id }">${row.title }</a>
       ${row.category }
       ${row.price }
     </c:forEach>
  <br>
 <br>
 <button onclick="location.href='/create'">도서등록</button>
</body>
</html>
```

