# 4. Mybatis

1. dddd

## sql-map-config.xml

```
1 package com.dbal.app.emp.mapper;
3 and import /java.util.List;
  8
   public interface EmpMapper
 10
 11
        public EmpVO getEmp(EmpVO empVO);
 12
        public List(EmpV)> getEmplist();
        public void empInsert(EmpVQ empVO);
 13
14 }
x emp_mapper.xml ⋈
 40 < mapper namespace= "com.dbal, app, emp.mapper. EmpMapper"
                         id="getEmp"
        ≺select
                    resultType="com.dbal.app.emp.map.EmpVO"
                parameterType="com.dbal.app.emp.map.EmpVO">
            select *
 10
            from employees
            where employees_id = #{employees_id}
 11
 12
        </select>
13
14⊝
        <select id="getEmpList" resultType="com.dbal.app.emp.map.EmpVO">
```

# DAO 클래스 작성

```
package com.dbal.app.emp.mapper;
import java.util.List;
import org.mybatis.spring.SqlSessionTemplate;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Repository;
@Repository
public class EmpDAO {
      @Autowired private SqlSessionTemplate mybatis;
      public EmpVO getEmp(EmpVO empVO) {
            return mybatis.selectOne("com.dbal.app.emp.map.EmpMapper.getEmp",empVO);
      public List<EmpVO> getEmpList() {
            return mybatis.selectList("com.dbal.app.emp.map.EmpMapper.getEmpList");
      public void empInsert(EmpVO empVO) {
            mybatis.insert("com.dbal.app.emp.map.EmpMapper.empInsert", empVO);
```

### 트랜잭션

```
public void insert(EmpVO vo) {
 try {
   //1. connect
   conn = ds.getConnection();
   //트랜잭션 범위 시작
   conn.setAutoCommit(false);
   //2. statement
   String sql = "INSERT INTO EMPLOYEES~~~ ";
   PreparedStatement pstmt = conn.prepareStatement(sql);
   pstmt.executeUpdate();
   sql = "INSERT INTO MEMBER ~~~ ";
   pstmt = conn.prepareStatement(sql);
   int r = pstmt.executeUpdate();
   //커밋: 트랜잭션 범위 종료
   conn.commit();
 } catch(Exception e){
   if(conn != null)
     //롤백 : 트랜잭션 범위 종료
     try { conn.rollback(); } catch (SQLException e1) { }
 } finally {
   if(conn != null)
     try { conn.close(); } catch (SQLException e1) { }
```

#### 프로시져

```
<parameterMap type= "board" id= "boardParam">
     <parameter property= "title" mode= "IN" jdbcType= "VARCHAR" javaType= "string"/>
     <parameter property= "writer" mode= "/N" jdbcType= "VARCHAR" javaType= "string"/>
     <parameter property= "content" mode= "/N" jdbcType= "VARCHAR" javaType= "string"/>
     <parameter property= "seq" mode= "OUT" jdbcType= "NUMERIC" javaType= "int"/>
     <parameter property= "out_msg" mode= "OUT" jdbcType= "VARCHAR" javaType= "string"/>
</parameterMap>
<insert id="insertBoardProc1" statementType="CALLABLE" parameterMap="boardParam">
     { call BOARD INS PROC(?,?,?,?,?) }
</insert>
<insert id="insertBoardProc2" statementType= "CALLABLE" parameterType= "board">
     { call BOARD INS PROC(
     #{title},
     #{writer},
     #{content, mode=IN, jdbcType=VARCHAR, javaType=string},
     #{seq, mode=OUT, jdbcType=NUMERIC, javaType=java.math.BigDecimal},
     #{out_msg, mode=OUT, jdbcType=VARCHAR, javaType=string}
</insert>
```