武汉纺织大学

Java应用开发课程设计

**Java代码生成器**

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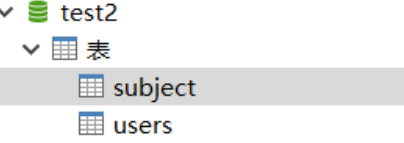
# 1 需求分析

MyBatis属于一种半自动的ORM框架，主要的工作就是配置Mapping映射文件，但是由于手写映射文件很容易出错，即仿照MyBatis Generator 开发一个Java代码生成器工具软件，对数据库中指定的表自动生成与表结构匹配的实体类源文件，生成mapper映射文件，生成DAO接口。

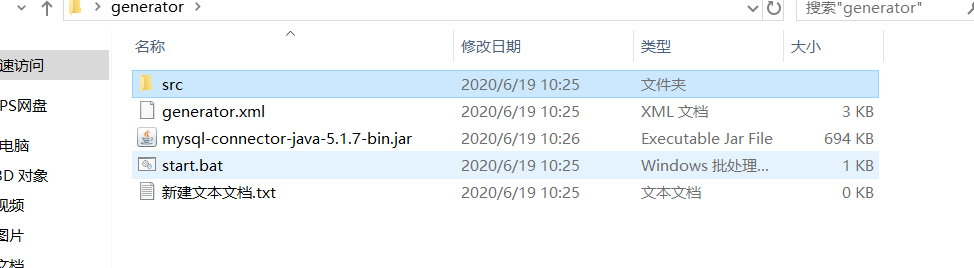
# **2 系统设计**

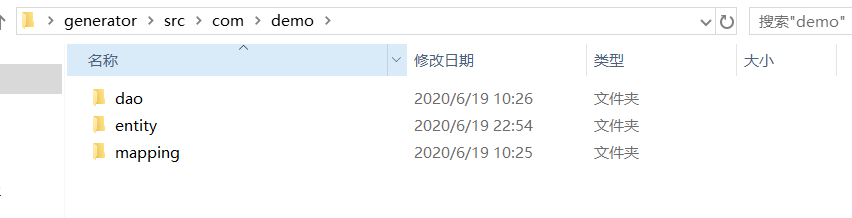
## 2.1数据库表结构

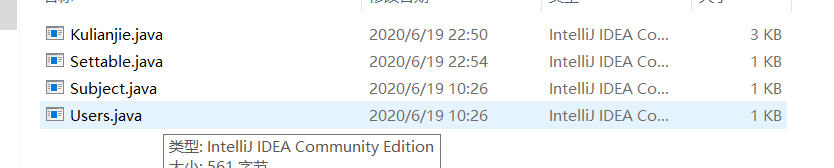
数据库设计2张表，用户表，商品表，如图所示：



## 2.2 项目结构

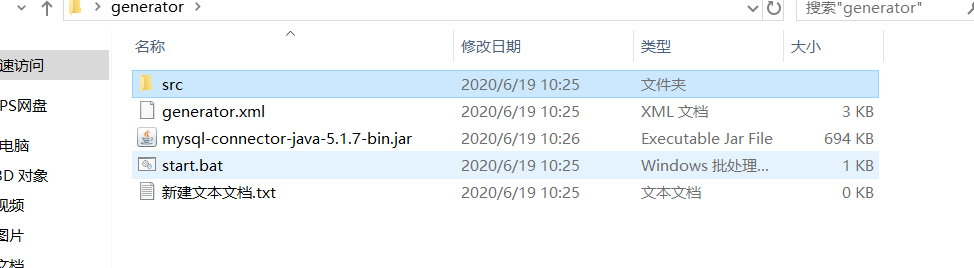
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ty.column.datalen%3D%22%22%20entity.column.dataType%3D%22DATETIME%22%20label%3D%22%26lt%3Bimg%20title%3D%26quot%3BPrimary%20Key%26quot%3B%20src%3D%26quot%3Bimages%2Fspacer.gif%26quot%3B%20width%3D%26quot%3B16%26quot%3B%20height%3D%26quot%3B16%26quot%3B%20align%3D%26quot%3Btop%26quot%3B%26gt%3B%26amp%3Bnbsp%3B%26lt%3Bfont%20size%3D%26quot%3B1%26quot%3B%20face%3D%26quot%3BTahoma%26quot%3B%26gt%3B%26lt%3Bspan%20style%3D%26quot%3Bfont-size%3A%2013px%26quot%3B%26gt%3B%26lt%3Bb%26gt%3Bname%20varchar(10)%26lt%3B%2Fb%26gt%3B%26lt%3B%2Fspan%26gt%3B%26lt%3B%2Ffont%26gt%3B%22%20entity.column.oldName%3D%22count%22%20entity.column.decimals%3D%22%22%20entity.column.autoIncreament%3D%22%22%20entity.column.unsigned%3D%22%22%20entity.column.bin%3D%22%22%20entity.column.ascii%3D%22%22%20entity.column.unicode%3D%22%22%20entity.column.PK%3D%22false%22%20entity.column.unique%3D%22%22%20entity.column.isNotNull%3D%22%22%20entity.column.defaultValue%3D%22%22%20entity.column.comment%3D%22%22%20entity.column.enum%3D%22%22%20entity.column.set%3D%22%22%20entity.column.enumSetValue%3D%22%22%20id%3D%2219%22%3E%3CmxCell%20style%3D%22text%3Bhtml%3D1%3BstrokeColor%3Dnone%3BfillColor%3Dnone%3BspacingLeft%3D4%3BspacingRight%3D4%3Boverflow%3Dhidden%3Brotatable%3D0%3BportConstraint%3Deastwest%3BfontSize%3D12%3BverticalAlign%3Dmiddle%3B%22%20vertex%3D%221%22%20parent%3D%2212%22%3E%3CmxGeometry%20y%3D%22182%22%20width%3D%22280%22%20height%3D%2226%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Fmysql.column%3E%3CmxCell%20id%3D%2220%22%20value%3D%221..n%22%20style%3D%22edgeStyle%3DentityRelationEdgeStyle%3BfontSize%3D12%3Bhtml%3D1%3BendArrow%3DERoneToMany%3BstrokeWidth%3D2%3BstrokeColor%3D%236c8ebf%3BexitX%3D1%3BexitY%3D0.25%3BentryX%3D0%3BentryY%3D0.5%3B%22%20edge%3D%221%22%20source%3D%224%22%20target%3D%2214%22%20parent%3D%221%22%3E%3CmxGeometry%20relative%3D%221%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3CmxCell%20id%3D%2221%22%20value%3D%221..n%22%20style%3D%22edgeStyle%3DentityRelationEdgeStyle%3BfontSize%3D12%3Bhtml%3D1%3BendArrow%3DERoneToMany%3BstrokeWidth%3D2%3BstrokeColor%3D%236c8ebf%3BexitX%3D1%3BexitY%3D0.5%3BentryX%3D0%3BentryY%3D0.5%3B%22%20edge%3D%221%22%20source%3D%228%22%20target%3D%2216%22%20parent%3D%221%22%3E%3CmxGeometry%20relative%3D%221%22%20as%3D%22geometry%22%2F%3E%3C%2FmxCell%3E%3C%2Froot%3E%3C%2FmxGraphModel%3E





# **3 系统实现**

## 3.1 项目结构



## 3.2 配置文件

### 3.2.1 Kulianjie.java文件

该配置文件主要是以文件形式保存数据库的驱动类名称，连接数据库的URL地址，访问数据库的用户名及对应的密码，程序运行时会读取该文件相关信息。

import java.sql.Connection;

import java.sql.DatabaseMetaData;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.util.ArrayList;

import java.util.List;

import com.mrh.spring.generator.model.Column;

import com.mrh.spring.generator.model.Table;

public class Kulianjie {

    /\*\*

     \* 用main方法直接跑的话需要提前加载驱动类

     \*/

    public static void init() {

         try {

             Class.forName("com.mysql.jdbc.Driver").newInstance();

         } catch (InstantiationException e) {

             e.printStackTrace();

         } catch (IllegalAccessException e) {

             e.printStackTrace();

         } catch (ClassNotFoundException e) {

             e.printStackTrace();

         }

    }

    /\*\*

     \* 获取连接

     \* @param url

     \* @param username

     \* @param password

     \* @return

     \*/

    public static Connection getConnection(String url, String username, String password) {

        Connection conn = null;

        try {

            conn = DriverManager.getConnection(url, username, password);

        } catch (SQLException e) {

            // TODO Auto-generated catch block

            e.printStackTrace();

        }

        return conn;

    }

### 3.2.2 Settable.java文件

package com.mrh.spring.generator.model;

import java.util.List;

public class Settable {

    private String tableName;

    public String getTableName() {

        return tableName;

    }

    public void setTableName(String tableName) {

        this.tableName = tableName;

    }

    public List<Column> getColumns() {

        return columns;

    }

    public void setColumns(List<Column> columns) {

        this.columns = columns;

    }

    private List<Column> columns;

}

### 3.2.3 SubjectMapper.xml文件

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

<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">

<mapper namespace="com.demo.dao.SubjectMapper">

  <resultMap id="BaseResultMap" type="com.demo.entity.Subject">

    <id column="id" jdbcType="INTEGER" property="id" />

    <result column="subject" jdbcType="VARCHAR" property="subject" />

  </resultMap>

  <sql id="Base\_Column\_List">

    id, subject

  </sql>

  <select id="selectByPrimaryKey" parameterType="java.lang.Integer" resultMap="BaseResultMap">

    select

    <include refid="Base\_Column\_List" />

    from subject

    where id = #{id,jdbcType=INTEGER}

  </select>

  <delete id="deleteByPrimaryKey" parameterType="java.lang.Integer">

    delete from subject

    where id = #{id,jdbcType=INTEGER}

  </delete>

  <insert id="insert" parameterType="com.demo.entity.Subject">

    insert into subject (id, subject)

    values (#{id,jdbcType=INTEGER}, #{subject,jdbcType=VARCHAR})

  </insert>

  <insert id="insertSelective" parameterType="com.demo.entity.Subject">

    insert into subject

    <trim prefix="(" suffix=")" suffixOverrides=",">

      <if test="id != null">

        id,

      </if>

      <if test="subject != null">

        subject,

      </if>

    </trim>

    <trim prefix="values (" suffix=")" suffixOverrides=",">

      <if test="id != null">

        #{id,jdbcType=INTEGER},

      </if>

## 3.3 DAO接口类SubjectMapper.java

package com.demo.dao;

import com.demo.entity.Subject;

public interface SubjectMapper {

    int deleteByPrimaryKey(Integer id);

    int insert(Subject record);

    int insertSelective(Subject record);

    Subject selectByPrimaryKey(Integer id);

    int updateByPrimaryKeySelective(Subject record);

    int updateByPrimaryKey(Subject record);

}

## 3.4 DAO接口类UsersMapper.java

package com.demo.dao;

import com.demo.entity.Users;

public interface UsersMapper {

    int deleteByPrimaryKey(Integer id);

    int insert(Users record);

    int insertSelective(Users record);

    Users selectByPrimaryKey(Integer id);

    int updateByPrimaryKeySelective(Users record);

    int updateByPrimaryKey(Users record);

}

## 3.5 接口映射文件UserMapper.xml

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

<!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN" "http://mybatis.org/dtd/mybatis-3-mapper.dtd">

<mapper namespace="com.demo.dao.UsersMapper">

  <resultMap id="BaseResultMap" type="com.demo.entity.Users">

    <id column="id" jdbcType="INTEGER" property="id" />

    <result column="name" jdbcType="VARCHAR" property="name" />

    <result column="age" jdbcType="INTEGER" property="age" />

  </resultMap>

  <sql id="Base\_Column\_List">

    id, name, age

  </sql>

  <select id="selectByPrimaryKey" parameterType="java.lang.Integer" resultMap="BaseResultMap">

    select

    <include refid="Base\_Column\_List" />

    from users

    where id = #{id,jdbcType=INTEGER}

  </select>

  <delete id="deleteByPrimaryKey" parameterType="java.lang.Integer">

    delete from users

    where id = #{id,jdbcType=INTEGER}

  </delete>

  <insert id="insert" parameterType="com.demo.entity.Users">

    insert into users (id, name, age

      )

    values (#{id,jdbcType=INTEGER}, #{name,jdbcType=VARCHAR}, #{age,jdbcType=INTEGER}

      )

  </insert>

  <insert id="insertSelective" parameterType="com.demo.entity.Users">

    insert into users

    <trim prefix="(" suffix=")" suffixOverrides=",">

      <if test="id != null">

        id,

      </if>

      <if test="name != null">

        name,

      </if>

      <if test="age != null">

        age,

      </if>

    </trim>

    <trim prefix="values (" suffix=")" suffixOverrides=",">

      <if test="id != null">

        #{id,jdbcType=INTEGER},

      </if>

      <if test="name != null">

        #{name,jdbcType=VARCHAR},

      </if>

      <if test="age != null">

        #{age,jdbcType=INTEGER},

      </if>

    </trim>

  </insert>

  <update id="updateByPrimaryKeySelective" parameterType="com.demo.entity.Users">

## 3.9 generator.xml

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

<!DOCTYPE generatorConfiguration

  PUBLIC "-//mybatis.org//DTD MyBatis Generator Configuration 1.0//EN"

  "http://mybatis.org/dtd/mybatis-generator-config\_1\_0.dtd">

<generatorConfiguration>

  <!-- 指定驱动包 -->

  <!--注意location一定要写英文路径不然中文路径会无效果-->

<classPathEntry location="C:\Users\lenovo\Desktop\CodeGenerator\MyGenerator\generator\mysql-connector-java-5.1.7-bin.jar" />

  <!-- 指定数据库连接参数 -->

  <context id="DB2Tables" targetRuntime="MyBatis3">

     <commentGenerator>

        <property name="suppressDate" value="true"/>

      <!-- 是否去除自动生成的注释 true 是 false:不是 -->

        <property name="suppressAllComments" value="true"/>

     </commentGenerator>

    <jdbcConnection driverClass="com.mysql.jdbc.Driver"

      <!--注意连接是你自己的数据库-->

        connectionURL="jdbc:mysql://localhost:3306/test2"

        userId="root"

        password="root">

    </jdbcConnection>

  <!-- 指定对BigDecimal是否特殊处理 -->

    <javaTypeResolver >

      <property name="forceBigDecimals" value="false" />

    </javaTypeResolver>

  <!-- 指定实体类生成，位置和名称 下载到com.demo.entity包下-->

    <javaModelGenerator targetPackage="com.demo.entity" targetProject="src">

      <property name="enableSubPackages" value="true" />

      <property name="trimStrings" value="true" />

    </javaModelGenerator>

  <!-- 指定sql定义文件(XML文件)，位置和名称 下载到com.demo.entity包下-->

    <sqlMapGenerator targetPackage="com.demo.mapping"  targetProject="src">

      <property name="enableSubPackages" value="true" />

    </sqlMapGenerator>

  <!-- 指定Mapper接口，的位置和名称 下载到com.demo.entity包下-->

    <javaClientGenerator type="XMLMAPPER" targetPackage="com.demo.dao"  targetProject="src">

      <property name="enableSubPackages" value="true" />

    </javaClientGenerator>

  <!-- 指定哪些表生成 -->

<!-- % 指定生成所有表 -->

    <table tableName="%"

      enableCountByExample="false" enableDeleteByExample="false"

      enableSelectByExample="false" enableUpdateByExample="false">

    </table>

    <!--指定生成单个表 users

    <table tableName="users" domainObjectName="Users" enableCountByExample="false"

          enableUpdateByExample="false" enableDeleteByExample="false"

          enableSelectByExample="false" selectByExampleQueryId="false">

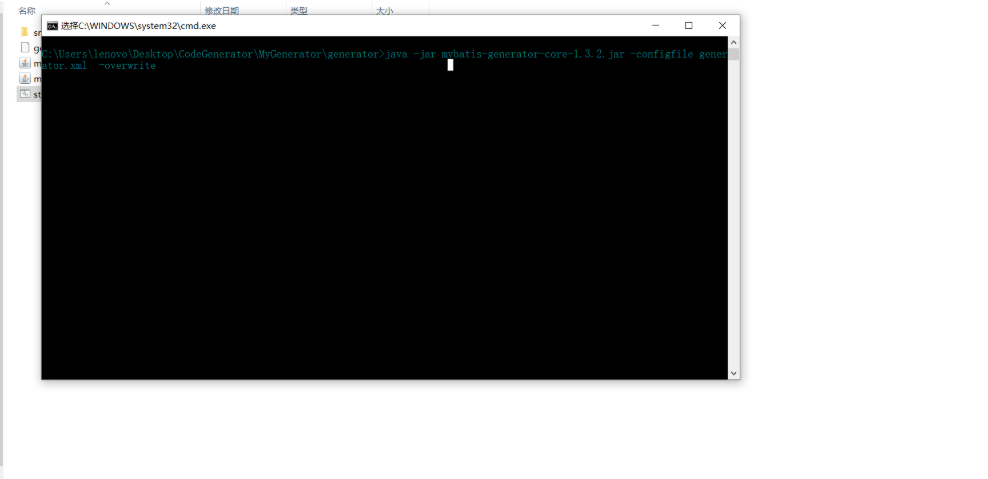
      </table>-->

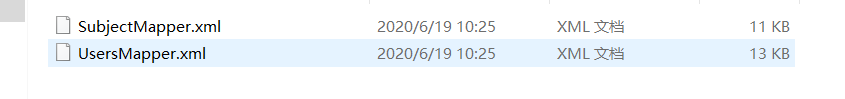
  </context>

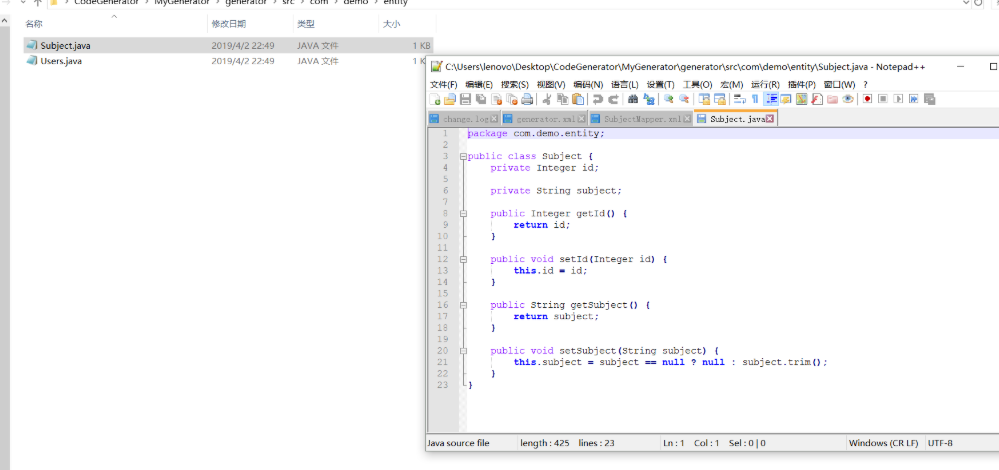
</generatorConfiguration>

# **4 系统测试**

点击startup.bat,就可以看到我们已经在src下已经生成了dao、entity和mapper.xml







# **5 系统总结**

本次课程设计做了一个代码生成器，对数据库中指定的表自动生成与表结构匹配的实体类源文件，生成mapper映射文件，生成DAO接口，刚拿到这个题目的时候，还不知道要怎么写这个课程设计，后来参考了一下MyBatis Generator 开发一个Java代码生成器工具软件，渐渐就有了一些思路，然后一步一步的就写出了这个程序。学习了一学期的Java课程,感觉收获还是挺大的，从最开始的用JAVA写“Hello World！”到后来能慢慢的写一个完整的程序，在我看来，要多去想想写程序时遇到的问题然后去操作，会让你有更多的收获。这样反复地思考是很有用的。在学习Java的语法时，Java的语法是类似c语言的，所以学习的比较轻松。唯一需要注意的是有几个不容易搞清楚的关键字的用法，public，protected，private，static，什么时候用，为什么要用，怎么用，这些问题都是要弄清楚的。在 Java 的学习过程中，可能会遇到形形色色的问题不容易解决，应该要多去专业论坛了解相关的知识，书本上的知识有限。要会从网上搜索有用的信息 加以整理，从而提高我们的水平。