# Main.java

import java.io.File;

import java.util.ArrayList;

import java.util.HashMap;

import java.util.List;

import java.util.Map;

import util.FreemarkerUtil;

import util.JdbcUtil;

import util.PropertyUtil;

import vo.Book;

import vo.Column;

public class Main {

public static void main(String[] args) throws Exception{

// TODO Auto-generated method stub

/\* FreeMarker基本思想：模板+数据=输出

\* generator.properties为生成器参数

\* FreemarkerUtil是处理模板文件产生输出的工具类，JdbcUtil是读取数据库表数据的工具类

\* test包下是对上面两个工具类的测试实例

\* step1:编写实体类的模板文件（vo.ftl）。（放在d:/template下）

\* step2：调用JdbcUtil获得表信息，为模板准备好数据（Map）。

\* step3:调用FreemarkerUtil输出vo类源代码到指定位置。（d:/output）

\*/

String tableName=PropertyUtil.get("tableName");

String pk=PropertyUtil.get("package");

String templateDir=PropertyUtil.get("templateDir");

String outputDir=PropertyUtil.get("outputDir");

FreemarkerUtil util = FreemarkerUtil.getInstance(new File(templateDir));//模板文件在d盘template目录下

List<String> tableList;

if("\*".equals(tableName)) {//数据库下所有表都生成实体类

tableList=JdbcUtil.getTables();

}

else {//逗号隔开的表生成实体类

tableList=new ArrayList<String>();

String[] tableNames=tableName.split(",");

for(String tn:tableNames) {

tableList.add(tn);

}

}

for(String tn:tableList) {//对要求的每个表生成实体类，tn为表名

Map<String, Object> root = new HashMap<String, Object>();

//准备数据

List<Column> properties = JdbcUtil.getColumns(tn);

for(Column c:properties) {

System.out.println(c);

}

String fn = "d:/";//输出路径 generator.properties已配置 outputDir

root.put("package", pk); // 包名

root.put("className", tn); // 类名 表名

root.put("properties", properties); // 属性

tn = tn.substring(0, 1).toUpperCase()+tn.substring(1);// 文件名首字母大写

util.fprint(root, "vo.ftl", outputDir+"/"+tn+".java");//输出到文件，tn为类名

}

}

}

# Ftl文件

package ${package};

public class ${className?capitalize}{

public ${className?capitalize}(){}

<#list properties as property>

private ${property.columnType?lower\_case?replace("varchar","String")} ${property.columnName};

</#list>

<#list properties as property>

public ${property.columnType?lower\_case?replace("varchar","String")} get${property.columnName?cap\_first}() {

return ${property.columnName};

}

public void set${property.columnName?cap\_first}(${property.columnType?lower\_case?replace("varchar","String")} ${property.columnName}) {

this.${property.columnName} = ${property.columnName};

}

</#list>

}

# 生成类文件

## Bj.java

package vo;

public class Bj{

public Bj(){}

private int id;

private String bjname;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getBjname() {

return bjname;

}

public void setBjname(String bjname) {

this.bjname = bjname;

}

}

## Student.java

package vo;

public class Student{

public Student(){}

private int id;

private String sno;

private String sname;

private String sex;

private int bjid;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getSno() {

return sno;

}

public void setSno(String sno) {

this.sno = sno;

}

public String getSname() {

return sname;

}

public void setSname(String sname) {

this.sname = sname;

}

public String getSex() {

return sex;

}

public void setSex(String sex) {

this.sex = sex;

}

public int getBjid() {

return bjid;

}

public void setBjid(int bjid) {

this.bjid = bjid;

}

}