代码实现：

前端代码：

/\*

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\* and open the template in the editor.

\*/

package javatest;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.Scanner;

/\*\*

\*

\* @author lenovo

\*/

public class Contest {

public static void main(String [] args){

Connect mysql=new Connect();

int flag=1;

do{

System.out.println("欢迎使用西军电学生在线管理系统....");

System.out.println("请输入您的选择:");

System.out.println("1、查询功能\t\t2、插入功能\t\t\n3、删除功能\t\t4、修改功能\t\t5、退出系统\n");

Scanner in=new Scanner(System.in);

int choose=in.nextInt();

String pause;

switch(choose){

case 5:

System.out.println("期待您再次使用本系统...\n再见...");

flag=0;

break;

case 1://查询

System.out.println("欢迎使用查询系统...");

System.out.println("请输入您的选择:");

System.out.println("1、学生查询\t\t2、班级查询\t\t\n3、系别查询\t\t4、学会查询\n");

choose=in.nextInt();

switch(choose){

case 1://学生查询

System.out.println("请输入您的选择:");

System.out.println("1、姓名查询\t\t2、学号查询\t\t\n3、班号查询\t\t4、年龄查询\n");

choose=in.nextInt();

String sql=null;

switch(choose){

case 1:

System.out.println("请输入要查询学生的姓名:");

pause=in.nextLine();

String sqlName=in.nextLine();

sql="select sno,sname,age,student.classno,systemname,apartment from student,class,s\_q where student.sname like '"+sqlName+"' and student.classno = class.classno and class.sys = s\_q.systemname ;";

mysql.Query(sql, 1);

break;

case 2:

System.out.println("请输入要查询学生的学号:");

pause=in.nextLine();

String sqlSno=in.nextLine();

sql="select sno,sname,age,student.classno,systemname,apartment from student,class,s\_q where student.sno like '"+sqlSno+"' and student.classno = class.classno and class.sys = s\_q.systemname ;";

mysql.Query(sql, 1);

break;

case 3:

System.out.println("请输入要查询学生的班号:");

pause=in.nextLine();

String sqlCno=in.nextLine();

sql="select sno,sname,age,student.classno,systemname,apartment from student,class,s\_q where student.classno like '"+sqlCno+"' and student.classno = class.classno and class.sys = s\_q.systemname ;";

mysql.Query(sql, 1);

break;

case 4:

System.out.println("请输入要查询学生的出生日期:");

pause=in.nextLine();

String sqlAge=in.nextLine();

sql="select sno,sname,age,student.classno,systemname,apartment from student,class,s\_q where student.age like '"+sqlAge+"' and student.classno = class.classno and class.sys = s\_q.systemname ;";

mysql.Query(sql, 1);

break;

default:

System.out.println("请输入正确选项...");

break;

}

break;//学生查询

case 2://班级查询

System.out.println("请输入您的选择:");

System.out.println("1、班号查询\t\t2、专业名查询\t\t\n3、系名查询\t\t4、入学日期查询\n");

choose=in.nextInt();

switch(choose){

case 1:

System.out.println("请输入要查询班级的班号:");

pause=in.nextLine();

String sqlCno=in.nextLine();

sql="select \* from class where classno like '"+sqlCno+"';";

mysql.Query(sql, 2);

break;

case 2:

System.out.println("请输入要查询班级的专业名:");

pause=in.nextLine();

String sqlMnm=in.nextLine();

sql="select \* from class where majorname like '"+sqlMnm+"';";

mysql.Query(sql, 2);

break;

case 3:

System.out.println("请输入要查询班级的系名:");

pause=in.nextLine();

String sqlDnm=in.nextLine();

sql="select \* from class where sys like '"+sqlDnm+"';";

mysql.Query(sql, 2);

break;

case 4:

System.out.println("请输入要查询班级的入学日期:");

pause=in.nextLine();

String sqlEdt=in.nextLine();

sql="select \* from class where dataSchool like '"+sqlEdt+"';";

mysql.Query(sql, 2);

break;

}

break;//班级查询

case 3://系别查询

System.out.println("请输入您的选择:");

System.out.println("1、系号查询\t\t2、系名查询\t\t3、系办公地点\t\t4.住宿区查询\n");

choose=in.nextInt();

switch(choose){

case 1:

System.out.println("请输入要查询系别的系号:");

pause=in.nextLine();

String sqlDno=in.nextLine();

sql="select \* from department where systemno like '"+sqlDno+"';";

mysql.Query(sql, 3);

break;

case 2:

System.out.println("请输入要查询系别的系名:");

pause=in.nextLine();

String sqlDnm=in.nextLine();

sql="select \* from department where systemname like '"+sqlDnm+"';";

mysql.Query(sql, 3);

break;

case 3:

System.out.println("请输入要查询系别的办公地点:");

pause=in.nextLine();

String sqlDof=in.nextLine();

sql="select \* from department where systemoffice like '"+sqlDof+"';";

mysql.Query(sql, 3);

break;

}

break;//系别查询

case 4://学会查询

System.out.println("请输入您的选择:");

System.out.println("1、学会号查询\t\t2、学会名称查询\t\t\n3、学会成立时间查询\t4、学会活动区域查询\n");

choose=in.nextInt();

switch(choose){

case 1:

System.out.println("请输入要查询学会的学会号:");

pause=in.nextLine();

String sqlUno=in.nextLine();

sql="select \* from society where unionno like '"+sqlUno+"';";

mysql.Query(sql, 4);

break;

case 2:

System.out.println("请输入要查询学会的名称:");

pause=in.nextLine();

String sqlUnm=in.nextLine();

sql="select \* from society where unionname like '"+sqlUnm+"';";

mysql.Query(sql, 4);

break;

case 3:

System.out.println("请输入要查询学会的成立时间:");

pause=in.nextLine();

String sqlUdt=in.nextLine();

sql="select \* from society where dataunion like '"+sqlUdt+"';";

mysql.Query(sql, 4);

break;

case 4:

System.out.println("请输入要查询学会的活动区域:");

pause=in.nextLine();

String sqlUpl=in.nextLine();

sql="select \* from society where unionplace like '"+sqlUpl+"';";

mysql.Query(sql, 4);

break;

}

break;//学会查询

}

break;//查询

case 2://插入功能

System.out.println("欢迎使用插入系统...");

System.out.println("请输入您的选择:");

System.out.println("1、插入新的学生\t\t2、插入新的学会\t\t\n3、插入新的班级\t\t4、插入新的专业\t5.插入新的系别\n");

choose=in.nextInt();

switch(choose){

case 1://插入学生

System.out.println("请输入要插入学生的信息...\n");

System.out.println("请输入新增学生的学号:");

pause=in.nextLine();

String sqlSno=in.nextLine();

System.out.println("请输入新增学生的姓名:");

String sqlSnm=in.nextLine();

System.out.println("请输入新增学生的年龄:");

String sqlSage=in.nextLine();

System.out.println("请输入新增学生的班号:");

String sqlScno=in.nextLine();

mysql.insertStudent(sqlSno, sqlSnm, sqlSage, sqlScno);

break;//插入学生

case 2:

System.out.println("请输入要插入学会的信息...\n");

System.out.println("请输入新增学会的学会号:");

pause=in.nextLine();

String sqlUnionNo=in.nextLine();

System.out.println("请输入新增学会的学会名:");

String sqlUnionName=in.nextLine();

System.out.println("请输入新增学会的创建日期:");

String sqlDataUnion=in.nextLine();

System.out.println("请输入新增学会的活动地点:");

String sqlUnionPlace=in.nextLine();

mysql.insertSociety(sqlUnionNo, sqlUnionName, sqlDataUnion, sqlUnionPlace);

break;

case 3:

System.out.println("请输入要插入班级的信息...\n");

System.out.println("请输入新增班级的班号:");

pause=in.nextLine();

String classNo=in.nextLine();

System.out.println("请输入新增班级的专业名称:");

String majorName=in.nextLine();

System.out.println("请输入新增班级的系名:");

String Sys=in.nextLine();

System.out.println("请输入新增班级的入校年份:");

String dataSchool=in.nextLine();

mysql.insertClass(classNo, majorName, Sys, dataSchool);

break;

case 4:

System.out.println("十分抱歉，本功能尚未开通\n");

break;

case 5:

System.out.println("十分抱歉，本功能尚未开通\n");

break;

default:

System.out.println("请选择正确选项...");

}

break;//插入功能

case 3://删除功能

System.out.println("欢迎使用删除系统...");

System.out.println("请输入您的选择:");

System.out.println("1、学生删除\t\t2、班级删除\t\t\n3、学会删除\t\t4、专业删除\t\t5、系别删除\n");

choose=in.nextInt();

switch(choose){

case 1://学生删除

System.out.println("请选择删除学生的依据...");

System.out.println("1.学生学号\t\t2.学生班级号\n");

choose=in.nextInt();

if(choose==1){

pause=in.nextLine();

System.out.println("请输入学号:");

String sqlSno=in.nextLine();

mysql.DeleteStudent(sqlSno, sqlSno,1);

}

else if(choose==2){

pause=in.nextLine();

System.out.println("请输入班级号:");

String sqlCno=in.nextLine();

mysql.DeleteStudent(sqlCno, sqlCno, 2);

}

else

System.out.println("请输入正确选项...\n");

break;//学生删除

case 2://班级删除

System.out.println("请选择删除班级的依据...");

System.out.println("1.班级班号\t\t2.专业名称\t\t3.系别名称\n");

choose=in.nextInt();

if(choose==1){

pause=in.nextLine();

System.out.println("请输入班号:");

String sqlCno=in.nextLine();

mysql.DeleteClass(sqlCno, sqlCno, sqlCno, 1);

}

else if(choose==2){

pause=in.nextLine();

System.out.println("请输入专业名称:");

String majorName=in.nextLine();

mysql.DeleteClass(majorName, majorName, majorName, 2);

}

else if(choose==3){

pause=in.nextLine();

System.out.println("请输入系别名称:");

String Sys=in.nextLine();

mysql.DeleteClass( Sys, Sys, Sys, 3);

}

else

System.out.println("请输入正确选项...\n");

break;//班级删除

case 3://学会删除

System.out.println("请选择待删除学会的依据...");

System.out.println("1.学会号\t\t2.学会名称\t\t3.学会活动地点\n");

choose=in.nextInt();

if(choose==1){

pause=in.nextLine();

System.out.println("请输入学会号:");

String sqlUno=in.nextLine();

mysql.DeleteSociety(sqlUno, sqlUno, sqlUno, 1);

}

else if(choose==2){

pause=in.nextLine();

System.out.println("请输入学会名称:");

String sqlUnm=in.nextLine();

mysql.DeleteSociety(sqlUnm, sqlUnm, sqlUnm, 2);

}

else if(choose==3){

pause=in.nextLine();

System.out.println("请输入学会活动地点:");

String sqlPlace=in.nextLine();

mysql.DeleteSociety(sqlPlace, sqlPlace, sqlPlace,3);

}

else

System.out.println("请输入正确选项...\n");

break;//学会删除

case 4://专业删除

System.out.println("十分抱歉，本功能尚未开通\n");

/\*System.out.println("请输入要删除的系别名称...");

pause=in.nextLine();

String Dnm=in.nextLine();

System.out.println("");\*/

break;//专业删除

case 5://系别删除

System.out.println("十分抱歉，本功能尚未开通\n");

break;//系别删除

default:

System.out.println("请选择正确选项...");

}

break;//删除功能

case 4://修改功能

System.out.println("欢迎使用修改系统...");

System.out.println("请输入您的选择:");

System.out.println("1、学生信息修改\t\t2、班级信息修改\t\t\n3、系别信息修改\t\t4、学会信息修改");

choose=in.nextInt();

switch(choose){

case 1://学生修改

System.out.println("请输入要修改学生的学号...");

pause=in.nextLine();

String sqlSno=in.nextLine();

System.out.println("请选择要修改的信息...");

System.out.println("1.学生姓名\t\t2.年龄\t\t3.学生班号");

choose=in.nextInt();

switch(choose){

case 1:

pause=in.nextLine();

System.out.println("请输入学生姓名:");

String sqlSnm=in.nextLine();

mysql.updateStudent(sqlSno, sqlSnm, sqlSnm, sqlSnm, 1);

break;

case 2:

pause=in.nextLine();

System.out.println("请输入学生出生年月:");

String sqlSage=in.nextLine();

mysql.updateStudent(sqlSno, sqlSage, sqlSage, sqlSage, 2);

break;

case 3:

pause=in.nextLine();

System.out.println("请输入学生班号:");

String sqlScno=in.nextLine();

mysql.updateStudent(sqlSno, sqlScno, sqlScno, sqlScno, 3);

break;

default:

System.out.println("请选择正确选项...");

}

break;//学生修改

case 2://班级修改

System.out.println("请输入要修改班级的班号...");

pause=in.nextLine();

String sqlCno=in.nextLine();

System.out.println("请选择要修改的信息...");

System.out.println("1.专业名称\t\t2.系别名称\t\t3.入校年份");

choose=in.nextInt();

switch(choose){

case 1:

pause=in.nextLine();

System.out.println("请输入专业名称:");

String sqlMnm=in.nextLine();

mysql.updateClass(sqlMnm, sqlMnm, sqlMnm, sqlCno, 1);

break;

case 2:

pause=in.nextLine();

System.out.println("请输入系别名称:");

String sqlDnm=in.nextLine();

mysql.updateClass(sqlDnm, sqlDnm, sqlDnm, sqlCno, 2);

break;

case 3:

pause=in.nextLine();

System.out.println("请输入入校年份:");

String sqlCdt=in.nextLine();

mysql.updateClass(sqlCdt, sqlCdt, sqlCdt, sqlCno, 3);

break;

default:

System.out.println("请选择正确选项...");

}

break;//班级修改

case 3://系别修改

System.out.println("请输入要修改系别的系号...");

pause=in.nextLine();

String sqlDno=in.nextLine();

System.out.println("请选择要修改的信息...");

System.out.println("1.系别名称\t\t2.系别办公地点\t\t3.系别住宿区");

choose=in.nextInt();

String sqlDnm=null;

switch(choose){

case 1:

pause=in.nextLine();

System.out.println("请输入系别名称:");

sqlDnm=in.nextLine();

mysql.updateDepartment(sqlDnm, sqlDnm,sqlDnm, sqlDno, 1);

break;

case 2:

pause=in.nextLine();

System.out.println("请输入系别办公地点:");

String sqlDpl=in.nextLine();

mysql.updateDepartment(sqlDpl, sqlDpl, sqlDpl, sqlDno, 2);

break;

case 3:

pause=in.nextLine();

System.out.println("请输入系别名称:");

sqlDnm=in.nextLine();

System.out.println("请输入系别住宿区:");

String sqlDdp=in.nextLine();

mysql.updateDepartment(sqlDnm, sqlDnm, sqlDdp, sqlDno, 3);

break;

default:

System.out.println("请选择正确选项...");

}

break;//系别修改

case 4://学会修改

System.out.println("请输入要修改学会的学会号...");

pause=in.nextLine();

String sqlUno=in.nextLine();

System.out.println("请选择要修改的信息...");

System.out.println("1.学会名称\t\t2.学会活动地点\t\t3.学会建立日期");

choose=in.nextInt();

switch(choose){

case 1:

pause=in.nextLine();

System.out.println("请输入学会名称:");

String sqlUnm=in.nextLine();

mysql.updateSociety(sqlUnm, sqlUnm, sqlUnm, sqlUno, 1);

break;

case 2:

pause=in.nextLine();

System.out.println("请输入学会活动地点:");

String sqlUpl=in.nextLine();

mysql.updateSociety(sqlUpl, sqlUpl, sqlUpl, sqlUno, 2);

break;

case 3:

pause=in.nextLine();

System.out.println("请输入学会建立日期:");

String sqlUdt=in.nextLine();

mysql.updateSociety(sqlUdt, sqlUdt, sqlUdt, sqlUno, 3);

break;

default:

System.out.println("请选择正确选项...");

}

break;//学会修改

}

break;//修改功能

}

}

while(flag!=0);

mysql.close();

}

}

class Connect{

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost:3306/yjk";

// 数据库的用户名与密码，需要根据自己的设置

static final String USER = "root";

static final String PASS = "yjk100544";

Connection conn = null;

Statement stmt = null;

PreparedStatement preparedStatement = null;

Connect(){

try{

// 注册 JDBC 驱动

Class.forName(JDBC\_DRIVER);

// 打开链接

System.out.println("正在连接主机请等候...");

this.conn = DriverManager.getConnection(DB\_URL,USER,PASS);

// 执行查询

System.out.println("连接成功...");

}

catch(SQLException se){

// 处理 JDBC 错误

se.printStackTrace();

}catch(Exception e){

// 处理 Class.forName 错误

e.printStackTrace();

}

// 关闭资源

}//connect

void Query(String sql,int choose) {

try{

System.out.println(sql);

stmt=this.conn.createStatement();

ResultSet rs=stmt.executeQuery(sql);

switch(choose){

case 1://学生查询

if(rs.next()){

String Sno=rs.getString("sno");

String Sname=rs.getString("sname");

String Sage=rs.getString("age");

String classNo=rs.getString("classno");

String systemName=rs.getString("systemname");

String apartMent=rs.getString("apartment");

System.out.println("学生姓名:"+Sname+"\n"+"学生学号:"+Sno+"\n"+"学生年龄:"+Sage+"\n"+"学生班号:"+classNo+"\n"+"学生系别:"+systemName+"\n"+"学生住宿区:"+apartMent);

while(rs.next()){

Sno=rs.getString("sno");

Sname=rs.getString("Sname");

Sage=rs.getString("birth");

classNo=rs.getString("classno");

systemName=rs.getString("systemname");

apartMent=rs.getString("apartment");

System.out.println("学生姓名:"+Sname+"\n"+"学生学号:"+Sno+"\n"+"学生年龄:"+Sage+"\n"+"学生班号:"+classNo+"\n"+"学生系别:"+systemName+"\n"+"学生住宿区:"+apartMent);

}

}

else{

System.out.println("不存在该同学信息...");

}

break;//学生查询

case 2:

if(rs.next()){

String classNo=rs.getString("classno");

String majorName=rs.getString("majorname");

String Sys=rs.getString("sys");

String personNum=rs.getString("personnum");

String dataSchool=rs.getString("dataSchool");

System.out.println("班级班号:"+classNo+"\n"+"专业名称:"+majorName+"\n"+"系别名称:"+Sys+"\n"+"班级人数:"+personNum+"\n"+"入校年份:"+dataSchool);

while(rs.next()){

classNo=rs.getString("classno");

majorName=rs.getString("majorname");

Sys=rs.getString("sys");

personNum=rs.getString("personnum");

dataSchool=rs.getString("dataSchool");

System.out.println("班级班号:"+classNo+"\n"+"专业名称:"+majorName+"\n"+"系别名称:"+Sys+"\n"+"班级人数:"+personNum+"\n"+"入校年份:"+dataSchool);

}

}

else{

System.out.println("不存在该班级信息");

}

break;//班级查询

case 3:

if(rs.next()){

String systemNo=rs.getString("systemno");

String systemName=rs.getString("systemname");

String systemOffice=rs.getString("systemoffice");

String systemNum=rs.getString("systemnum");

System.out.println("系别号:"+systemNo+"\n"+"系别名称:"+systemName+"\n"+"系办公地点:"+systemOffice+"\n"+"系别人数:"+systemNum+"\n");

while(rs.next()){

systemNo=rs.getString("systemno");

systemName=rs.getString("systemname");

systemOffice=rs.getString("systemoffice");

systemNum=rs.getString("systemnum");

System.out.println("系别号:"+systemNo+"\n"+"系别名称:"+systemName+"\n"+"系办公地点:"+systemOffice+"\n"+"系别人数:"+systemNum+"\n");

}

}

else{

System.out.println("不存在该系别信息");

}

break;//系查询

case 4:

if(rs.next()){

String unionNo=rs.getString("unionno");

String unionName=rs.getString("unionname");

String dataUnion=rs.getString("dataunion");

String unionPlace=rs.getString("unionplace");

System.out.println("学会号:"+unionNo+"\n"+"学会名称:"+unionName+"\n"+"学会建立日期:"+ dataUnion+"\n"+"学会活动地点:"+ unionPlace+"\n");

while(rs.next()){

unionNo=rs.getString("unionno");

unionName=rs.getString("unionname");

dataUnion=rs.getString("dataunion");

unionPlace=rs.getString("unionplace");

System.out.println("学会号:"+unionNo+"\n"+"学会名称:"+unionName+"\n"+"学会建立日期:"+ dataUnion+"\n"+"学会活动地点:"+ unionPlace+"\n");

}

}

else{

System.out.println("不存在该学会信息");

}

break;//学会查询

}

rs.close();

stmt.close();

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void insertStudent(String sqlSno,String sqlSnm,String sqlSage,String sqlScno){

try{

String sql="insert into student values(?,?,?,?);";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, sqlSno);

preparedStatement.setString(2, sqlSnm);

preparedStatement.setString(3, sqlSage);

preparedStatement.setString(4, sqlScno);

if(preparedStatement.executeUpdate()==0)

System.out.println("插入学生失败");

else

System.out.println("插入学生成功...");

preparedStatement.close();

}

catch(SQLException e){

System.out.println("插入失败");

System.out.println(e.toString());

}

}

void insertClass(String classNo,String majorName,String Sys,String dataSchool){

try{

String sql="insert into class values(?,?,?,?,?);";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, classNo);

preparedStatement.setString(2, majorName);

preparedStatement.setString(3, Sys);

preparedStatement.setInt(4, 0);

preparedStatement.setString(5, dataSchool);

if(preparedStatement.executeUpdate()==0)

System.out.println("插入班级失败");

else

System.out.println("插入班级成功...");

preparedStatement.close();

}

catch(SQLException e){

System.out.println("插入失败");

System.out.println(e.toString());

}

}

void insertSociety(String unionNo,String unionName,String dataUnion,String unionPlace){

try{

String sql="insert into society values(?,?,?,?);";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, unionNo);

preparedStatement.setString(2, unionName);

preparedStatement.setString(3, dataUnion);

preparedStatement.setString(4, unionPlace);

if(preparedStatement.executeUpdate()==0)

System.out.println("插入学会失败");

else

System.out.println("插入学会成功...");

preparedStatement.close();

}

catch(SQLException e){

System.out.println("插入失败");

System.out.println(e.toString());

}

}

void DeleteStudent(String sqlSno,String sqlCno,int choose){

String sql;

try{

switch(choose){

case 1: //学生删除

sql="delete from student where sno like ?;";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sqlSno);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除学生失败");

else

System.out.println("删除学生成功...");

preparedStatement.close();

break;//学生删除

case 2:

sql="delete from student where classno like ?;";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sqlCno);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除学生失败");

else

System.out.println("删除学生成功...");

preparedStatement.close();

break;

/\* case 21:

sql="delete from society where unionno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sqlUno);

preparedStatement.executeUpdate();

preparedStatement.close();

System.out.println("删除学会成功...");

preparedStatement.close();

break;

case 22:

sql="delete from society where unionname like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sqlUnm);

preparedStatement.executeUpdate();

preparedStatement.close();

System.out.println("删除学会成功...");

preparedStatement.close();

break;\*/

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void DeleteClass(String classNo,String majorName,String Sys,int choose){

try{

String sql;

switch(choose){

case 1:

sql="delete from class where classno like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, classNo);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除班级失败");

else

System.out.println("删除班级成功...");

preparedStatement.close();

break;

case 2:

sql="delete from class where majorname like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, majorName);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除班级失败");

else

System.out.println("删除班级成功...");

preparedStatement.close();

break;

case 3:

sql="delete from class where sys like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, Sys);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除班级失败");

else

System.out.println("删除班级成功...");

preparedStatement.close();

break;

}

}catch(SQLException e){

System.out.println(e.toString());

}

}

void DeleteSociety(String unionNo,String unionName,String unionPlace,int choose){

try{

String sql;

switch(choose){

case 1:

sql="delete from society where unionno like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, unionNo);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除学会失败");

else

System.out.println("删除学会成功...");

preparedStatement.close();

break;

case 2:

sql="delete from society where unionname like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, unionName);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除学会失败");

else

System.out.println("删除学会成功...");

preparedStatement.close();

break;

case 3:

sql="delete from society where unionplace like ?;";

preparedStatement=this.conn.prepareStatement(sql);

preparedStatement.setString(1, unionPlace);

if(preparedStatement.executeUpdate()==0)

System.out.println("删除学会失败");

else

System.out.println("删除学会成功...");

preparedStatement.close();

break;

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void updateStudent(String sno,String sname,String age,String classno,int choose){

try{

String sql=null;

switch(choose){

case 1://学生姓名

sql="update student set sname = ? where sno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sname);

preparedStatement.setString(2, sno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学生姓名

case 2://学生出生年月

sql="update student set age = ? where sno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, age);

preparedStatement.setString(2, sno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学生出生年月

case 3://学生班号

sql="update student set classno = ? where sno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1,classno);

preparedStatement.setString(2, sno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学生班号

default:

System.out.println("请选择正确选项...");

/\* case 21://专业名称

break;//专业名称

case 22://系别名称

break;//系别名称

case 23://入校年份

break;//入校年份

case 31://系别名称

break;//系别名称

case 32://系别办公地点

break;//系别办公地点

case 33://系别住宿区

break;//系别住宿区

case 41://学会名称

break;//学会名称

case 42://学会活动地点

break;//学会活动地点

case 43://学会建立日期

break;//学会建立日期\*/

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void updateClass(String majorname,String sys,String dataSchool,String classno,int choose){

try{

String sql=null;

switch(choose){

case 1://专业名

sql="update class set majorname = ? where classno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, majorname);

preparedStatement.setString(2, classno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//专业名

case 2://系名

sql="update class set sys = ? where classno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, sys);

preparedStatement.setString(2, classno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//系名

case 3://入校年份

sql="update class set dataSchool = ? where classno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, dataSchool);

preparedStatement.setString(2, classno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//入校年份

default:

System.out.println("请选择正确选项...");

/\* case 21://专业名称

break;//专业名称

case 22://系别名称

break;//系别名称

case 23://入校年份

break;//入校年份

case 31://系别名称

break;//系别名称

case 32://系别办公地点

break;//系别办公地点

case 33://系别住宿区

break;//系别住宿区

case 41://学会名称

break;//学会名称

case 42://学会活动地点

break;//学会活动地点

case 43://学会建立日期

break;//学会建立日期\*/

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void updateDepartment(String systemname,String systemoffice,String apartment,String systemno,int choose){

try{

String sql=null;

switch(choose){

case 1://系名

sql="update department set systemname = ? where systemno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, systemname);

preparedStatement.setString(2, systemno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//系名

case 2://系办公地点

sql="update department set systemoffice = ? where systemno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, systemoffice);

preparedStatement.setString(2, systemno);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//系办公地点

case 3://系住宿区

sql="update s\_q set apartment = ? where systemname like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, apartment);

preparedStatement.setString(2, systemname);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//系住宿区

default:

System.out.println("请选择正确选项...");

/\* case 21://专业名称

break;//专业名称

case 22://系别名称

break;//系别名称

case 23://入校年份

break;//入校年份

case 31://系别名称

break;//系别名称

case 32://系别办公地点

break;//系别办公地点

case 33://系别住宿区

break;//系别住宿区

case 41://学会名称

break;//学会名称

case 42://学会活动地点

break;//学会活动地点

case 43://学会建立日期

break;//学会建立日期\*/

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void updateSociety(String unionName,String dataUnion,String unionPlace,String unionNo,int choose){

try{

String sql=null;

switch(choose){

case 1://学会名

sql="update society set unionname = ? where unionno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, unionName);

preparedStatement.setString(2, unionNo);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学会名

case 2://学会建立日期

sql="update society set dataunion = ? where unionno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, dataUnion);

preparedStatement.setString(2, unionNo);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学会建立日期

case 3://学会活动区

sql="update society set unionplace = ? where unionno like ?";

preparedStatement=conn.prepareStatement(sql);

preparedStatement.setString(1, unionPlace);

preparedStatement.setString(2, unionNo);

if(preparedStatement.executeUpdate()==0)

System.out.println("更改错误...");

else

System.out.println("更改成功...");

preparedStatement.close();

break;//学会活动区

default:

System.out.println("请选择正确选项...");

/\* case 21://专业名称

break;//专业名称

case 22://系别名称

break;//系别名称

case 23://入校年份

break;//入校年份

case 31://系别名称

break;//系别名称

case 32://系别办公地点

break;//系别办公地点

case 33://系别住宿区

break;//系别住宿区

case 41://学会名称

break;//学会名称

case 42://学会活动地点

break;//学会活动地点

case 43://学会建立日期

break;//学会建立日期\*/

}

}

catch(SQLException e){

System.out.println(e.toString());

}

}

void close(){

try{

if(conn!=null) conn.close();

}catch(SQLException se){

se.printStackTrace();

}

}

}

1.表的建立

1）系表

2）班级表

3）学生表

4)学会表

5）参加学会表

2.创建学会的视图

select `s\_u`.`unionname` AS `unionname`,count(`s\_u`.`sno`) AS `unionpersonnum` from `s\_u` group by `s\_u`.`unionname`

3.建立在学生表上的触发器（能根据每个班的学生变动情况自动增减班级表和系表的人数字段的值）

auto\_insert和auto\_delete分别是自动增加和自动减少

DELIMITER ;;

CREATE TRIGGER `auto\_insert` AFTER INSERT ON `student` FOR EACH ROW begin

declare c int;

set c=(select personnum from class where classno=new.classno);

update class

set personnum=c+1

where classno=new.classno;

end

;;

DELIMITER ;

DELIMITER ;;

CREATE TRIGGER `auto\_delete` AFTER DELETE ON `student` FOR EACH ROW begin

declare c int;

set c=(select personnum from class where classno=old.classno);

update class

set personnum=c-1

where classno=old.classno;

end

;;

DELIMITER ;

4.建立存储过程（给定一个班的旧班号和新班号，把所有相关表中此班的旧班号改为新班号，并返回此班的人数（使用输出参数））

CREATE DEFINER=`root`@`localhost` FUNCTION `modifyclass`(oldclassno varchar(40),newclassno varchar(40)) RETURNS int(11)

begin

declare sum int default 0;

update class

set classno = newclassno

where classno like oldclassno;

select personnum

into sum

from class

where classno like newclassno;

return sum;

end

5.建立游标（确定系表中人数字段的值与实际学生数是否相符。如果不相符，把人数字段的值改为实际数，并在窗口打印此系的系号、系名、原人数、实际人数）

CREATE DEFINER=`root`@`localhost` PROCEDURE `checknumber`()

begin

declare done int default 0;

declare ActuallyTotal int default 0;

declare OldTotal int default 0;

declare local\_name varchar(40) default '';

declare mycursor cursor for

select systemname,systemnum

from

department;

declare continue handler for sqlstate '02000' set done = 1;

open mycursor;

while done <> 1 do

fetch next from mycursor into local\_name,OldTotal;

select sum(personnum)

into ActuallyTotal

from class

where sys like local\_name;

if ActuallyTotal <> OldTotal then

select systemno,systemname

from department

where systemname like local\_name;

select ActuallyTotal;

select OldTotal;

update department

set systemnum = ActuallyTotal

where systemname like local\_name;

end if;

end while;

close mycursor;

end