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package com.jiang.ThreeTierSample.dao.impl;

import com.jiang.ThreeTierSample.Utills.DBUtil;
import com.jiang.ThreeTierSample.dao.IStudentDao;
import com.jiang.ThreeTierSample.entity.Student;
import com.jiang.ThreeTierSample.service.IStudentService;
import com.jiang.ThreeTierSample.servlet.QueryAllStudentsServlet;
import com.sun.scenario.effect.impl.sw.sse.SSEBlend_SRC_OUTPeer;

import java.sql.*;
import java.util.ArrayList;
import java.util.List;

//数据访问层:原子性的增删改查
public class StudentDaoImpl implements IStudentDao {

    //判断此学士是否存在
    public boolean isExist(int sno){ //true: 此人存在 false:此人不存在
        return queryStudentBySno(sno)==null? false:true;
    }

    //查找指定学生
    public Student queryStudentBySno(int sno){
        String sql="select * from STUDENTINFO where UNO=?";
        Object[] param=new Object[]{sno};
        ResultSet rs=DBUtil.executeQuery(sql,param);
        Student student=null;
        try {
            while(rs.next()) {
                int uno=rs.getInt("UNO");
                String unname=rs.getString("UNAME");
                int uage=rs.getInt("UAGE");
                String uaddress=rs.getString("UADDRESS");
                student=new Student(uno,unname,uage,uaddress);
            }
            return student;
        } catch (SQLException e) {
            e.printStackTrace();
            return null;
        }finally {
            DBUtil.close(rs,null,null);
        }
    }
}

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//增加学生
public boolean addStudent(Student student){
    String sql="insert into STUDENTINFO values(?,?,?,?)";
    Object[] params=new Object[]
{student.getUno(),student.getUname(),student.getUage(),student.getUaddress()};
    return DBUtil.executeUpdate(sql,params);

}

//删除指定学生
public boolean deleteStudet(int uno){
    String sql="delete from STUDENTINFO where UNO=?";
    Object[] param=new Object[]{uno};
    return DBUtil.executeUpdate(sql,param);

}

//根据学号修改信息
public Boolean updateStudentByUno(int uno,Student student){
    String sql="update STUDENTINFO set UNAME=?,UAGE=?,UADDRESS=? where
UNO=? ";
    Object[] params=new Object[]
{student.getUname(),student.getUage(),student.getUaddress(),uno};
    return DBUtil.executeUpdate(sql,params);

}

//查询全部学生
public List<Student> queryAllStudents(){
    String sql="select * from STUDENTINFO order by UNO";
    ResultSet rs=DBUtil.executeQuery(sql,null);
    Student student=null;
    List<Student> students=new ArrayList<>();
    try {
        while(rs.next()) {
            int uno=rs.getInt("UNO");
            String uname=rs.getString("UNAME");
            int uage=rs.getInt("UAGE");
            String uaddress=rs.getString("UADDRESS");
            student=new Student(uno,uname,uage,uaddress);
            students.add(student);
        }
        System.out.println(students.size());
        return students;

    } catch (SQLException e) {

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        e.printStackTrace();
        return null;
    }finally {
        DBUtil.close(rs,DBUtil.pstmt,DBUtil.conn);
    }
}

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//查询总人数

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public int queryCount() {
    String sql="select * from STUDENTINFO";
    return DBUtil.getTotalCount(sql);
}

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//分页操作

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public List<Student> queryStudentsByPage(int currentPage, int pageSize) {
    Student student=null;
    List<Student> students=new ArrayList<>();
    String sql=" select * from "+"("+"select rownum r,e.* from STUDENTINFO e
where rownum<=?"+" )"+" t where r<=? and r>?";
    Object[] params=new Object[]{currentPage*pageSize,currentPage*pageSize,
(currentPage-1)*pageSize};
    ResultSet rs=DBUtil.executeQuery(sql,params);
    try {
        while (rs.next()) {
            int uno=rs.getInt("UNO");
            String uname=rs.getString("UNAME");
            int uage=rs.getInt("UAGE");
            String uaddress=rs.getString("UADDRESS");
            student=new Student(uno,uname,uage,uaddress);
            students.add(student);
        }
        return students;
    }catch(Exception ex){
        System.out.println("查询错误");
        return null;
    }
}
}

```