一个数据库stdb,用户名为admin 密码为123456 已存在一个表student中有五个学生的信息,姓名,性别,年龄,分数.

id(varchar(20)) name(varchar(20)) sex(varchar(20)) score(int(10))

1 李少荣 女 80

2 邵凯 男 75

3 周强 男 95

4 王晓婷 女 55

5 张秀花 女 68

6 顾会 女 50

7 赵天一 男 32

(1)查询女性,成绩80以上的学生数量

(2)将姓张的男同学的的成绩改为100

(3)查询成绩大于60的女性,显示姓名,性别,成绩

(4)分别统计所有男同学的平均分，所有女同学的平均分及总平均分

(5)按照分数从小到大的顺序打印分数大于总平均分的学员信息(id-name-sex-score),并将分数大于总平均分的学员信息(按照分数从小到大的顺序)(id-name-sex-score)写入到studentInfo.txt文件中(写入格式：id-name-sex-score)

(6)定义查询所有学生的方法public List<Student> getAllStudent(){}

(7)定义根据id查询学生的方法public Student getStudentById(String id){}

(8)定义根据id删除学生的方法public int deleteStudentById(String id){}//注意只有数据库中有才能删除，没有无法删除

(9)定义添加学员的方法public int addStudent(){}//注意只有数据库中没有有才能添加，有无法添加

(10)定义根据id修改学员的信息public int updateStudentById(String id){}//注意只有数据库中有才能修改，没有无法修改

**package** com.homework;

**public** **class** Student {

**private** String id;

**private** String name;

**private** String sex;

**private** **int** score;

**public** Student() {

**super**();

// **TODO** Auto-generated constructor stub

}

**public** Student(String id, String name, String sex, **int** score) {

**super**();

**this**.id = id;

**this**.name = name;

**this**.sex = sex;

**this**.score = score;

}

**public** String getId() {

**return** id;

}

**public** **void** setId(String id) {

**this**.id = id;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getSex() {

**return** sex;

}

**public** **void** setSex(String sex) {

**this**.sex = sex;

}

**public** **int** getScore() {

**return** score;

}

**public** **void** setScore(**int** score) {

**this**.score = score;

}

}

**package** com.homework;

**import** java.sql.Connection;

**import** javax.sql.DataSource;

**import** com.mchange.v2.c3p0.ComboPooledDataSource;

**public** **class** C3P0Utils {

**private** **static** ComboPooledDataSource *dataSource* = **new** ComboPooledDataSource("igeek");

**public** **static** DataSource getDataSource() {

**return** *dataSource*;

}

**public** **static** Connection getConnection() **throws** Exception {

// 将从连接池中获得连接

**return** *dataSource*.getConnection();

}

}

**public** **class** StudentDemo {

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

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

**int** temp = *selectTemp*();

**switch** (temp) {

**case** 1:

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

Connection conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/stdb", "root", "123456");

Statement st = conn.createStatement();

ResultSet rs = st.executeQuery("select count(\*) from student where sex = '女' and score >= 80");

**while** (rs.next()) {

Integer number = rs.getInt("count(\*)");

System.***out***.println(number);

}

rs.close();

st.close();

conn.close();

*updateTemp*(1);

**break**;

**case** 2:

String sql2 = "update student set score = ? where name like '张%'";

Object[] params2 = { 100 };

queryRunner.update(sql2, params2);

*updateTemp*(2);

**break**;

**case** 3:

String sql3 = "select \* from student where sex= ? and score>?";

Object[] params3 = { "女", 60 };

List<Student> list = queryRunner.query(sql3, **new** BeanListHandler<Student>(Student.**class**), params3);

**for** (Student student : list) {

System.***out***.println(student.getName() + " " + student.getSex() + " " + student.getScore());

}

*updateTemp*(3);

**break**;

**case** 4:

String sql4 = "select avg(score) from student where sex='男'";

String sql4\_2 = "select avg(score) from student where sex='女'";

String sql4\_3 = "select avg(score) from student";

Object boyAvg = queryRunner.query(sql4, **new** ScalarHandler<Integer>());

Object grilAvg = queryRunner.query(sql4\_2, **new** ScalarHandler<Integer>());

Object avg = queryRunner.query(sql4\_3, **new** ScalarHandler<Integer>());

System.***out***.println("男生平均分：" + boyAvg + " 女生平均分：" + grilAvg + " 总平均分：" + avg);

*updateTemp*(4);

**break**;

**case** 5:

BufferedWriter bw = **new** BufferedWriter(**new** FileWriter("studentInfo.txt"));

String sql5 = "select \* from student where score>(select avg(score) from student)";

List<Student> newList = queryRunner.query(sql5, **new** BeanListHandler<Student>(Student.**class**));

**for** (Student student : newList) {

String string = student.getId() + "-" + student.getName() + "-" + student.getSex() + "-"

+ student.getScore();

System.***out***.println(string);

bw.write(string);

bw.newLine();

bw.flush();

}

bw.close();

*updateTemp*(0);

**break**;

**default**:

**break**;

}

}

**public** **static** **int** selectTemp() **throws** Exception {

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

Connection conn = DriverManager.*getConnection*("jdbc:mysql://localhost:3306/stdb", "root", "123456");

Statement st = conn.createStatement();

ResultSet rs = st.executeQuery("select nid from t\_temp");

Integer id = 0;

**while** (rs.next()) {

id = rs.getInt("nid");

}

rs.close();

st.close();

conn.close();

**return** id;

}

**public** **static** **void** updateTemp(**int** n) **throws** Exception {

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

String url = "jdbc:mysql://localhost:3306/stdb";

String user = "root";

String password = "123456";

Connection conn = DriverManager.*getConnection*(url, user, password);

String sql = "update t\_temp set nid=" + (n + 1);

Statement statement = conn.createStatement();

**int** r = statement.executeUpdate(sql);

statement.close();

conn.close();

}

**public** List<Student> getAllStudent() **throws** Exception {

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

String sql = "select \* from student";

Object[] params = {};

List<Student> list = queryRunner.query(sql, **new** BeanListHandler<Student>(Student.**class**), params);

**return** list;

}

**public** Student getStudentById(String id) **throws** Exception {

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

String sql = "select \* from student where id=?";

Object[] params = { id };

Student student = queryRunner.query(sql, **new** BeanHandler<Student>(Student.**class**), params);

**return** student;

}

**public** **int** deleteStudentById(String id) **throws** Exception {

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

String sql = "delete from product where pid = ?";

Object[] params = { id };

**int** r = queryRunner.update(sql, params);

**return** r;

}

**public** **int** addStudent() **throws** Exception {

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

String sql = "insert into student(id,name,sex,score) values(?,?,?,?)";

Object[] params = { "10", "陈二狗", "男", "100" };

**int** r = queryRunner.update(sql, params);

**return** r;

}

**public** **int** updateStudentById(String id) **throws** Exception {

QueryRunner queryRunner = **new** QueryRunner(C3P0Utils.*getDataSource*());

String sql = "update student set name=?,sex=?,score=? where id=?";

Object[] params = { "陈二狗", "男", "100", "10" };

**int** r = queryRunner.update(sql, params);

**return** r;

}

}