

## 作业

- 查询2013级c语言程序设计的最高分是谁？

代码如下：

```
select t1.*,t2.grade,t3.ach,t4.name from t_stu t1 join t_classroom t2 on(t2.id=t1.cid)
join t_stu_cur t3 on(t3.sid=t1.id) join t_course t4 on(t4.id=t3.cid) where
t2.grade=2013 and t4.name='c语言程序设计' and t3.ach=(select max(t3.ach) from t_stu t1
join t_classroom t2 on(t2.id=t1.cid) join t_stu_cur t3 on(t3.sid=t1.id) join t_course
t4 on(t4.id=t3.cid) where t2.grade=2013 and t4.name='c语言程序设计');
```

运行结果如下：

```
mysql> select t1.*,t2.grade,t3.ach,t4.name from t_stu t1 join t_classroom t2
on(t2.id=t1.cid) join t_stu_cur t3 on(t3.sid=t1.id) join t_course t4 on(t4.id=t3.cid)
where t2.grade=2013 and t4.name='c语言程序设计' and t3.ach=(select max(t3.ach) from
t_stu t1 join t_classroom t2 on(t2.id=t1.cid) join t_stu_cur t3 on(t3.sid=t1.id) join
t_course t4 on(t4.id=t3.cid) where t2.grade=2013 and t4.name='c语言程序设计');
```

id	no	name	age	cid	gender	grade	ach	name
85	1084	李羽凡	18	4	男	2013	89	c语言程序设计

```
1 row in set (0.01 sec)
```

- 按照专业统计所有人数；

代码如下：

```
select t1.major, count(*) from t_classroom t1 left join t_stu t2 on(t2.cid=t1.id)
group by t1.major;
```

运行结果如下：

```
mysql> select t1.major, count(*) from t_classroom t1 left join t_stu t2
on(t2.cid=t1.id) group by t1.major;
+-----+-----+
| major          | count(*) |
+-----+-----+
| 物联网专业     |        62 |
| 计算机专业     |       141 |
+-----+-----+
2 rows in set (0.00 sec)
```

- 统计每个专业的平均年龄，最小年龄和最大年龄。

代码如下：

```
select t1.major as '专业', avg(t2.age) as '平均年龄', max(t2.age) as '最大年
龄', min(t2.age) as '最小年龄', count(t1.major) as '总人数' from t_classroom t1 left join
t_stu t2 on(t2.cid=t1.id) group by t1.major;
```

运行结果如下：

```
mysql> select t1.major as '专业', avg(t2.age) as '平均年龄', max(t2.age) as '最大年
龄', min(t2.age) as '最小年龄', count(t1.major) as '总人数' from t_classroom t1 left join
t_stu t2 on(t2.cid=t1.id) group by t1.major;
+-----+-----+-----+-----+-----+
| 专业          | 平均年龄 | 最大年龄 | 最小年龄 | 总人数 |
+-----+-----+-----+-----+-----+
| 物联网专业     |    21.5323 |      25 |      18 |      62 |
| 计算机专业     |    21.6115 |      25 |      18 |     141 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```