# sql 语句练习

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## 数据库题目练习记录

csdn: https://blog.csdn.net/qq\_41196190/article/details/101428660

1. 数据库中union和union all的区别

● union:对两个结果集进行并集操作,不包括重复行,同时默认规则排序

● union all:对两个结果集进行并集操作,包括重复行,不进行排序,

总的来说,两者都是取并集,但是union all 重复的行会全部显示出来而不是只显示一个

2. S(sno,sname) 学生表, sno为学号, sname为姓名

C(cno,cname,cteacher) 课程表。cno为课程号,cname为课程名,cteacher为任课教师SC(snc,cno,sgrade) 选课关系表,sgrade为成绩

2.1 找出没有选修过"李明"老师讲授课程的所有学生姓名

```
select sname
from s
where sno not in(select distinct(sno) from sc
where cno in(
```

select cno from c

where cteacher="李明"

或者

select sname

))

from s

where not exists(select \* from S,C,SC

where S.sno = SC.sno and C.cno = Sc.cno and c.cteacher = "李明"

)

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#### 2.2 列出有两门以上不及格课程的学生姓名及其平均成绩

```
select s.sname,ave(scgrade)

from s,sc, (select cno from sc where scgrade<60 group by sno having count(distinct cno)>=2)

A

where s.sno=a.sno and sc.sno=a.sno
group by s.sno,s.sname
```

### 2.3 列出既学过课程名为"1 "的课程,又学过课程名为"2 "的课程的所有学生姓名

```
select A.sno,A.sname
from (select sno,sname from sc where cno =1) a,
        (select sno,sname from sc where cno =2) b
where a.sno=b.sno
或者
select s.sno,s.sname
from s,(select sc.sno from sc,c
        where sc.cno=c.cno and c.cname in(1,2)
        group by sno
        having count(distinct CNO)=2
)sc
```

where s.sno=sc.sno

#### 2.4 列出1号课程成绩比2号课程成绩高的学号及其1号课程和2号程的成绩

```
select sc1.sno,sc1.scgrade as "1号课程成绩",sc2.scgrade as "2号课程成绩" from sc sc1,sc sc2
where sc1.cno=1 and sc2.cno=2 and sc1.sno=sc2.sno
```

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如果有错误,请大佬提出

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