

数据库实验三

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实验任务

在school数据库中：

- (1)查询选修C++课程的成绩比姓名为 ZNKOO的学生高的所有学生的编号和姓名
- (2)找出和学生883794999或学生850955252的年级一样的学生的姓名
- (3)查询没有选修Java的学生名称
- (4)找出课时最少的课程的详细信息
- (5)查询工资最高的教师的编号和开设的课程号
- (6)找出选修课程ERP成绩最高的学生编号
- (7)查询没有学生选修的课程名称
- (8)查询讲授课程UML的教师所讲授的所有课程名称
- (9)使用集合交运算，查询既选修了database又选修了UML课程的学生编号
- (10)使用集合减运算，查询选修了database却没有选修UML课程的学生编号

解决方案

(1)

```
use School
select sid,sname
from STUDENTS
where sid in(
select sid
from CHOICES C
where cid=(select cid
            from COURSES
            where cname='c++')
and score>(
select score
from CHOICES
where cid=C.cid and sid=(select sid -- cid=C.cid保证课程为C++
                        from STUDENTS
                        where sname='znkoo' )))
```


结果		消息
	tid	cid
1	204711560	10032
2	204711560	10017
3	277877392	10041
4	204711560	10001
5	204711560	10026
6	287866460	10005
7	277877392	10047
8	214445507	10022
9	287866460	10012
10	214445507	10003
11	287866460	10048
12	204711560	10042

✓ 查询已成功执行。 | (local) (10.0 RTM) | KON\zty (53) | School | 00:00:00 | 84 行

(6)

```

use School
select sid
from CHOICES
where cid=(select cid
            from COURSES
            where cname='ERP')
and score in(select max(CHOICES.score)
              from CHOICES)

```

结果		消息
	sid	
1	862976650	
2	840891316	
3	844440501	
4	883884237	
5	871790824	
6	871923399	
7	850185316	
8	804483690	
9	844447081	
10	826003101	
11	834280136	
12	887846486	

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(7)

```

use School
select cname
from COURSES
where cid not in(select cid
                  from CHOICES)

```



```


use School
(select sid
from CHOICES
where cid in(select cid
               from COURSES
               where cname='database'))

intersect

(select sid
from CHOICES
where cid in(select cid
               from COURSES
               where cname='uml'))

```

结果		消息
	sid	
1	800432697	
2	802445853	
3	805916031	
4	808872915	
5	813559934	
6	816025343	
7	816840832	
8	818314833	
9	819632378	
10	827126907	
11	835171985	
12	836928859	

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(10)

```

use School
(select sid
from CHOICES
where cid in(select cid
               from COURSES
               where cname='database'))

except

(select sid
from CHOICES
where cid in(select cid
               from COURSES
               where cname='uml'))

```

结果		消息
	sid	
1	800099878	
2	800126924	
3	800269666	
4	800354788	
5	800721627	
6	800799419	
7	800991189	
8	801150696	
9	801208471	
10	801266016	
11	801407246	
12	801512934	
查询已成功执...		(local) (10.0 RTM) KON\zty (53) School 00:00:00 5454 行