

19335262 张航悦 实验 4

练习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

```
1 select STUDENTS.sid,STUDENTS.sname
2 from STUDENTS,CHOICES,COURSES
3 where CHOICES.cid=COURSES.cid and COURSES.cname='C++'
4 and CHOICES.sid=STUDENTS.sid
5 and CHOICES.score>
6 (
7 select CHOICES.score
8 from CHOICES,STUDENTS,COURSES
9 where CHOICES.sid=STUDENTS.sid and STUDENTS.sname='ZNKOO'
10 and CHOICES.cid=COURSES.cid and COURSES.cname='C++')
```

结果		消息	
	sid	sname	
1	805448160	zppvomyah	
2	806094323	vtvhjh	
3	806368568	jrwpw	
4	806508691	xeirvo	
5	806890345	ooqjps	
6	835124969	rleeibwu	
7	835824895	pjrbr	
8	836116925	eusitmsws	
9	868653453	whjzeaqhh	
10	868749608	depbudf	
11	869063316	olsvi	
12	870256988	dlmjlnuw	
13	803470104	xqokicu	
14	838799307	vdevl	
15	839052279	kloriodw	
16	839269508	npyciwsbl	
17	839440207	zmiqdj	

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练习2

找出和学生883794999或学生850955252的年级一样的学生的姓名

```

1 select sname
2 from STUDENTS
3 where grade in(
4 select grade
5 from STUDENTS
6 where sid='883794999' or sid='850955252')

```

结果		消息
	sname	
1	uxqqbkjn	
2	hvylafcj	
3	vocojjnml	
4	ztozk	
5	efmgfprz	
6	pgrkdhh	
7	ttyyb	
8	mcefjr	
9	rlmbgu	
10	nkdnfq	
11	grnxesrhv	
12	fbbiyeh	
13	qtxblqzsv	
14	ctvxn	
15	airnnfv	
16	vaesalave	
17	uiuirl	

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练习3

查询没有选修Java的学生名称

```

1 select distinct sname
2 from STUDENTS
3 where sid not in
4 (select STUDENTS.sid
5 from COURSES,CHOICES,STUDENTS
6 where COURSES.cname='Java' and COURSES.cid=CHOICES.cid and
  STUDENTS.sid=CHOICES.sid)

```


结果		消息
	tid	cid
1	287866460	10012
2	214445507	10003
3	214445507	10021
4	214445507	10025
5	204711560	10029
6	204711560	10044
7	277877392	10041
8	204711560	10001
9	204711560	10026
10	287866460	10005
11	277877392	10047
12	287866460	10045
13	214445507	10011
14	204711560	10045
15	287866460	10018
16	204711560	10034
17	277877392	10040

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实验6

找出选修课程ERP成绩最高的学生编号

```

1 select CHOICES.sid
2 from CHOICES,COURSES
3 where COURSES.cid=CHOICES.cid and COURSES.cname='ERP' and score
  is not null and score>=
4 all(
5 select CHOICES.score
6 from CHOICES,COURSES
7 where COURSES.cid=CHOICES.cid and COURSES.cname='ERP'
8 and score is not null)
9

```

结果		消息
	sid	
1	823348672	
2	871790824	
3	846365274	
4	871923399	
5	850185316	
6	839342232	
7	865296034	
8	835033495	
9	843643589	
10	813239971	
11	892591975	
12	866949513	
13	876436141	
14	849513777	
15	891615881	
16	896273784	
17	891039970	

查询已成功执行。 | LAPTOP-914M6B5L (10.0 RTM) | LAPTOP-914M6B5L\18230 ... | School | 00:00:00 | 95 行

实验7

查询没有学生选修的课程名称

```
1 select cname
2 from COURSES
3 where cid not in
4 (select cid
5 from CHOICES)
```

结果	消息
cname	

实验8

查询讲授课程UML的教师所讲授的所有课程名称

```
1 select distinct COURSES.cname
2 from COURSES,CHOICES,TEACHERS
3 where TEACHERS.tid in
4 (select TEACHERS.tid
5 from TEACHERS,COURSES,CHOICES
6 where TEACHERS.tid=CHOICES.tid and CHOICES.cid=COURSES.cid
7 and COURSES.cname='UML')
8 and TEACHERS.tid=CHOICES.tid and CHOICES.cid=COURSES.cid
```

结果	消息
cname	
1	jsp
2	j2me
3	cryptology
4	distributed computing
5	virtual system
6	design pattern
7	fortran
8	data mining
9	computer interface
10	c++
11	erp
12	data warehouse
13	tcp/ip protocol
14	asp
15	project management
16	java
17	use case

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实验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

```
1 select sid
2 from CHOICES
3 where cid=
4 (select cid
5 from COURSES
6 where COURSES.cname='database')
7 intersect
8 select sid
9 from CHOICES
10 where cid=
11 (select cid
12 from COURSES
13 where COURSES.cname='UML')
```

结果		消息
	sid	
1	801619231	
2	821126308	
3	824825346	
4	828934699	
5	836670359	
6	838450830	
7	859544507	
8	870380695	
9	871225849	
10	871304130	
11	875976947	
12	878219914	
13	883358282	
14	888141496	
15	889788630	
16	802445853	
17	805916031	

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实验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

```

1 select sid
2 from CHOICES
3 where cid=
4 (select cid
5 from COURSES
6 where COURSES.cname='database')
7 except
8 select sid
9 from CHOICES
10 where cid=
11 (select cid
12 from COURSES
13 where COURSES.cname='UML')

```

结果		消息
	sid	
1	800168378	
2	800354595	
3	800588456	
4	801018049	
5	802425434	
6	802746063	
7	802751676	
8	802972398	
9	803350322	
10	803785050	
11	803838251	
12	804014842	
13	804254142	
14	804473891	
15	804640271	
16	805265127	
17	805588375	

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