练习题需要的数据如下:

Student 表格

SSN	SNAME	GPA	AGE	DEPTNO
2007001003	CHENGLICHONG	3.33	20	31
2007001005	ZHONGWEILONG	3.62	20	33
2007001006	WUYUANLANG	4.01	20	33
2006001001	LUOZI	3.12	20	34
2006001002	GUOHUAXIAN	3.21	21	34
2006001004	LELINGBING	3.75	21	
2007002001	ZHUJIANGUO	3.05	19	

Course 表:

CNO	CNAME	CREDIT	
001	Math	3	
002	Multimedia	3	
003	Computer network	4	
004	Software engineering	4	
005	Bioinformatics	3	

SC 表:

Figure 3.11 SC

SSN	CNO	GRADE
2007001003	001	78
2007001003	002	67
2007001003	003	89
2007001003	004	65
2007001005	001	75
2007001005	002	90
2007001006	002	80
2006001001	002	70
2006001001	004	90

学号: 姓名:

1. Select the number and the total grade of the students whose total grade is more than 200.

Select sno, sum(grade) from sc group by sno

having sum(grade)>200

2. Select the courses that were selected by none students. List the courses' NO. and names.

Select c.cno,cname

from course c left join sc on c.cno=sc.cno where sc.cno is null

2. Select the courses that were selected by none students. List the cours

SELECT CNO, CNAME

FROM COURSE

WHERE NOT EXISTS

(SELECT *

FROM SC

WHERE CNO = (DUTSE.CNO);

```
SELECT CNO.CNAME

FROM Course

WHERE END NOT IN

(SELECT DISTINCT CNO)

FROM SC)
```

3. Select the names, courses NO. and grade of the students whose grade is more than 80. Show the result by descendent order on grade.

Select sname,cno,grade
From student,sc
Where student.ssn=sc.ssn
And grade >80
Order by grade desc

4. Find the names of those students who are 18 or younger and whose GPA is higher than the GPA of some students who are 20 or older.

select sName from Student where Age <= 18 and GPA >some (select GPA from Student where Age >= 20)

 Find the names of those students who are 18 or younger and whose GPA is higher than the GPA of some students who are 20 or older.

SELECT SI. SNAME

FROM Student SI, Student S2

WHERE SI. AGE

8 18 AND S2. AGE > 20 AND S1. GPA > 52. GPA

5. Find the names and age of students in **other** departments that have smaller age than **any** a student in the department 33.

```
SELECT Sname, Sage
FROM Student
WHERE Sage < ANY (SELECT Sage
FROM Student
WHERE deptid= '33')
AND deptid <> '33';
```

6. Find the names of all students who study in the same department with a student with sname= 'liucheng'.

SELECT ssn, Sname, DEPTNO FROM Student S1

```
WHERE EXISTS

SELECT *

FROM Student S2

WHERE S2.DEPTNO = S1.DEPTNO AND

S2.Sname = ' liucheng ';
```

```
6. Find the names of all students who study in the same department with a student sname='liucheng'.

SELECT SI.SNAME

FROM . Student SI

WHERE SI.DEPTNO =

(SELECT DS2.DEPTNO

FROM Student S2

WHERE S2.SNAME = 'liucheng')
```

7. Find all the students who take all courses

```
select * from Student s
where not exists
(select * from Course c
where not exists
(select * from sc
where ssn= s.ssn
and Cno = c.Cno))
```

```
Find all the students who take all courses

SELECT & SC.SSN

FROM SC

GROUP BY S(.SSN)

HAVING COUNT(*) = (SELECT COUNT (**) (Course.CNO))

FROM Course);
```

8. For students in department 33, please set the grades of their courses to 0.

Update SC

Set Grade=0

Where SSN In

(Select SSN

From Student

Where DEPTNO=33)

8. For students in department 33, please set the grades of their courses to 0.

UPPATE SC, Smolene

SET GRAE GRADE = 0

Where Student. SSN = SC. SSN AND Student. DEPTN0 = 33;