1、 查询Student表中的所有记录的Sname、Ssex和Class列。

|  |  |
| --- | --- |
| 1 | select Sname,Ssex,Class from student |

2、 查询教师所有的单位即不重复的Depart列。

|  |  |
| --- | --- |
| 1 | select distinct Depart from teacher |

3、 查询Student表的所有记录。

|  |  |
| --- | --- |
| 1 | select \*  from student |

4、 查询Score表中成绩在60到80之间的所有记录。

|  |  |
| --- | --- |
| 1 | select \*  from Score where Degree between 60 and 80 |

5、 查询Score表中成绩为85，86或88的记录。

|  |  |
| --- | --- |
| 1 | select \*  from Score where Degree in(85,86,88) |

6、 查询Student表中“95031”班或性别为“女”的同学记录。

|  |  |
| --- | --- |
| 1 | select \*  from Student where class='95031' or Ssex='女' |

7、 以Class降序查询Student表的所有记录。

|  |  |
| --- | --- |
| 1 | select \*  from student order by class desc |

8、 以Cno升序、Degree降序查询Score表的所有记录。

|  |  |
| --- | --- |
| 1 | select \*  from Score order by cno asc,degree desc |

9、 查询“95031”班的学生人数。

|  |  |
| --- | --- |
| 1 | select count(\*)  from student where class='95031' |

10、     查询Score表中的最高分的学生学号和课程号。（子查询或者排序）

|  |  |
| --- | --- |
| 1 | select Sno,Cno  from Score where Degree=(select max(Degree) from Score) |
| 1 | select Sno,Cno  from Score order by  Degree desc limit 0,1 |

11、     查询每门课的平均成绩。

|  |  |
| --- | --- |
| 1 | select Cno,avg(degree) from Score group by Cno |

12、     查询Score表中至少有5名学生选修的并以3开头的课程的平均分数。

|  |  |
| --- | --- |
| 1 | select avg(Degree) from score where Cno like '3%' and Cno in (select Cno from score group by Cno having count(\*)>=5) 用in 不用= 是因为可能会有多个 |
| 1 | 简单写法：select avg(Degree) from score where Cno like '3%' and group by Cno having count(\*)>=5 |

13、     查询分数大于70，小于90的Sno列。

|  |  |
| --- | --- |
| 1 | select Sno from Score where degree>70 and degree<90 |

14、     查询所有学生的Sname、Cno和Degree列。

|  |  |
| --- | --- |
| 1 | select  Sname, Cno,Degree from Score , student where Score.Sno=student.Sno |

15、     查询所有学生的Sno、Cname和Degree列。

|  |  |
| --- | --- |
| 1 | select  Sno,Cname,Degree from Score , Course where Score.Cno=Course.Cno |

16、     查询所有学生的Sname、Cname和Degree列。

|  |  |
| --- | --- |
| 1 | select Sname,Cname,Degree from student,course,score where student.Sno=score.Sno and course.Cno=score.Cno |
| 1 | join .. on 写法：select Sname,Cname,Degree from student join score on student.Sno=score.Sno join course on course.Cno=score.Cno |

17、     查询“95033”班学生的平均分。

|  |  |
| --- | --- |
| 1 | select avg(degree) as 'class=95033' from Score where Sno in (select Sno from  Student where Class='95033' ) |

18、 假设使用如下命令建立了一个grade表：

create table grade(low  int(3),upp  int(3),rank  char(1))

insert into grade values(90,100,’A’)

insert into grade values(80,89,’B’)

insert into grade values(70,79,’C’)

insert into grade values(60,69,’D’)

insert into grade values(0,59,’E’)

现查询所有同学的Sno、Cno和rank列。

|  |  |
| --- | --- |
| 1 | select Sno,Cno,rank from Score,grade where degree between low and upp |

19、查询选修“3-105”课程的成绩高于“109”号同学成绩的所有同学的记录。

|  |  |
| --- | --- |
| 1 | <span style="color: #000000; font-size: 15px">109同学，选修是3-105课的</span> |
| 1 | select \* from score where Cno='3-105' and degree>(select max(degree ) from Score where Sno='109' and Cno='3-105' ) |

|  |  |
| --- | --- |
| 1 | <span style="font-size: 15px">109同学，没有选修3-105课</span> |
| 1 | select \* from score where Cno='3-105' and degree>(select max(degree ) from Score where Sno='109') |

and degree<( select max(degree ) from Score where sno in (select Sno from score group by Sno having count(\*)>1))

|  |  |
| --- | --- |
| 1 | 选了多门课程并且是这个课程下不是最高分的 |
| 1 | select \* from score a where Sno in (select Sno from score group by Sno having count(\*)>1) and degree<( select max(degree ) from Score b where b.cno = a.cno) |

21、查询成绩高于学号为“109”、课程号为“3-105”的成绩的所有记录。

|  |  |
| --- | --- |
| 1 | Select \* from score where degree>(select degree from Score where Sno='109' and Cno='3-105' ) |

22、查询和学号为108、101的同学同年出生的所有学生的Sno、Sname和Sbirthday列。

|  |  |
| --- | --- |
| 1 | select sno,sname,sbirthday  from student where year(sbirthday) = (select year(sbirthday) from student where  sno='108') |
| 1 | select sno,sname,sbirthday  from student where year(sbirthday) = (select year(sbirthday) from student where  sno='101') |

23、查询“张旭“教师任课的学生成绩。

|  |  |
| --- | --- |
| 1 | select Sno,degree from score,Course  where score.Cno=Course.Cno and Course.Tno= (select Tno from Teacher where Tname='张旭' ) |
| 1 | select degree from score where Cno in (select cno from course where Tno= (select Tno from Teacher where Tname='张旭'  ) ) |

24、查询选修某课程的同学人数多于5人的教师姓名。

|  |  |
| --- | --- |
| 1 | select Tname from Teacher,  Course where Teacher.Tno=Course.Tno and Course.Cno =(select Cno from Score group by Cno having count(\*)>5) |
| 1 | select Tname from Teacher where tno=( select Tno from Course where cno=( select Cno from Score group by Cno having count(\*)>5 )) |

25、查询95033班和95031班全体学生的记录。

|  |  |
| --- | --- |
| 1 | select \* from  student where  class in ('95033','95031') |

26、  查询存在有85分以上成绩的课程Cno.

|  |  |
| --- | --- |
| 1 | select Cno from score where degree>85 |

27、查询出“计算机系“教师所教课程的成绩表。

|  |  |
| --- | --- |
| 1 | select \* from course  where cno in (select cno from course  where tno in (select tno from teacher where Depart='计算机系')) |

28、查询“计算 机系”与“电子工程系“不同职称的教师的Tname和Prof。

|  |  |
| --- | --- |
| 1 | select Tname,Prof from Teacher where Depart ='计算机系' and Prof  not in( select Prof from Teacher where Depart ='电子工程系')<br>union <br>select Tname,Prof from Teacher where Depart ='电子工程系' and Prof  not in( select Prof from Teacher where Depart ='计算机系') |

29、查询选修编号为“3-105“课程且成绩至少高于选修编号为“3-245”的同学的Cno、Sno和Degree,并按Degree从高到低次序排序。

any:代表括号中任意一个成绩就可以

|  |  |
| --- | --- |
| 1 | select Cno,Sno,Degree from score where cno='3-105' and degree >any(select degree from score where cno='3-245' ) order by degree  desc |

30、查询选修编号为“3-105”且成绩高于选修编号为“3-245”课程的同学的Cno、Sno和Degree.

all:代表括号中的所有成绩

|  |  |
| --- | --- |
| 1 | select Cno,Sno,Degree from score where cno='3-105' and degree >all(select degree from score where cno='3-245' ) order by degree desc |

31、 查询所有教师和同学的name、sex和birthday.

|  |  |
| --- | --- |
| 1 | select tname,tsex,tbirthday from Teacher union select sname,ssex,sbirthday from Student |

32、查询所有“女”教师和“女”同学的name、sex和birthday.

|  |  |
| --- | --- |
| 1 | select Tname,Tsex,Tbirthday from Teacher where Tsex='女' union select Sname,Ssex,Sbirthday from Student where Ssex='女' |

33、 查询成绩比该课程平均成绩低的同学的成绩表。

|  |  |
| --- | --- |
| 1 | select \* from score a  where degree < (select avg(degree) from score b where b.cno=a.cno) |

34、 查询所有任课教师的Tname和Depart.

|  |  |
| --- | --- |
| 1 | select Tname,Depart from Teacher where tno in (select tno from course ) |

35 、 查询所有未讲课的教师的Tname和Depart.

|  |  |
| --- | --- |
| 1 | select Tname,Depart from Teacher where Tno not in (select Tno from Course where cno in (select cno from score  )) |

36、查询至少有2名男生的班号。

|  |  |
| --- | --- |
| 1 | select class from student where ssex='男' group by class having count(\*)>1 |

37、查询Student表中不姓“王”的同学记录。

|  |  |
| --- | --- |
| 1 | select \* from Student where Sname not  like '王%%' |

38、查询Student表中每个学生的姓名和年龄。

|  |  |
| --- | --- |
| 1 | select Sname, year(now())-year(sbirthday)  from Student |

39、查询Student表中最大和最小的Sbirthday日期值。

|  |  |
| --- | --- |
| 1 | select Max(Sbirthday ),Min(Sbirthday ) from Student |

40、以班号和年龄从大到小的顺序查询Student表中的全部记录。

|  |  |
| --- | --- |
| 1 | select \* from Student  order by  class desc, Sbirthday |

41、查询“男”教师及其所上的课程。

|  |  |
| --- | --- |
| 1 | select Tname,Cname from course,teacher where course.tno= teacher.tno and teacher.Tsex='男' |

42、查询最高分同学的Sno、Cno和Degree列。

|  |  |
| --- | --- |
| 1 | select Sno,Cno,Degree from score where degree=(select max(degree) from score) |

排序写法：

|  |  |
| --- | --- |
| 1 | select Sno,Cno,Degree from score order by degree desc limit 0,1 |

43、查询和“李军”同性别的所有同学的Sname.

|  |  |
| --- | --- |
| 1 | select Sname from Student where Ssex = (select Ssex from Student where Sname='李军') |

44、查询和“李军”同性别并同班的同学Sname.

|  |  |
| --- | --- |
| 1 | select Sname from Student where Ssex = (select Ssex from Student where Sname='李军' ) and class=( select class from student where Sname='李军') |

45、查询所有选修“计算机导论”课程的“男”同学的成绩表。

|  |  |
| --- | --- |
| 1 | select  Sno,Cno,degree from score where Cno=( select Cno from course where Cname='计算机导论') and Sno in (select Sno from student where Ssex='男') |