#### (1) 检索"陈迪茂"老师所教授的课程号和课程名

```
select oc.class_id, c.class_name
from teacher
join open_class oc on teacher.teacher_id = oc.teacher_id
join class c on oc.class_id = c.class_id
where teacher.teacher_name = '陈迪茂';
```

```
      Image: Control of the control of
```

## (2) 检索"计算机软件"专业的全体女生的学号、姓名

```
select student_id, student_name
from student
join department d on student.yxh = d.yxh
where d.yxh='01' and student.gender='女';
```

# (3) 检索至少选修"王晓明"老师所教授课程中一门课程在的 女学生姓名

```
select distinct student_name from student
inner join select_class sc on student.student_id = sc.student_id
where gender = '女' and sc.class_id in (select class_id from open_class
inner join teacher t on open_class.teacher_id = t.teacher_id
where t.teacher_name= '陈迪茂');
```

```
類 student_name ÷
1 张颖
2 李二丽
```

#### (4) 检索至少选修两门课程的学生学号

```
select student_id from select_class
group by student_id
having count(student_id) >= 2;
```

```
| Student_id : 1102 | 1104 | 4 | 1106 | 5 | 1107
```

# (5) 求选修通信课程的学生的平均年龄

```
1 select avg(TIMESTAMPDIFF(YEAR, birthday, CURDATE()))as age from select_class
    sc
2 left join student s on sc.student_id = s.student_id
3 left join class c on sc.class_id = c.class_id
4 where class_name = '通信学';
```

## (6) 求"马小红"老师所教授课程的每门课程的平均成绩

```
1 select avg(score) from select_class
2 group by class_id
3 having class_id in (select distinct class_id from open_class
4 inner join teacher t on open_class.teacher_id = t.teacher_id
5 where teacher_name = '马小红');
```

## (7) 检索姓"刘"的所有的"计算机学院"的学生的姓名和年龄

```
1 select student_name , TIMESTAMPDIFF(YEAR, birthday, CURDATE()) as age from student
2 where left(student_name,1) = '刘' and yxh = (select yxh from department
3 where depart_name = '计算机学院');
```

## (8) 在SC表中检索成绩为空值的学生学号与课程号

```
select student_id, class_id from select_class
where select_class.score is null;
```