实验六

> 姓名：苏柏瑞
> 学号：201600301108
> 班级：泰山学堂
> 实验题目：数据修改的提交和回退、实体授权

实验内容

oracle管理平台，针对公共用户pub下的表，完成创建视图、查询验证视图、删除视图。视图名为 test6_(题号，题号长度两位，前面补零),例如test6_01。

实验题目

- 找出年龄小于20岁且是"物理学院"的学生的学号、姓名、院系名称,按学号排序。

```
CREATE VIEW test6_01 AS
SELECT sid, name, dname FROM pub.student WHERE age < 20 and dname = '物理
学院' ORDER BY sid;
```

- 查询统计2009级、软件学院每个学生的学号、姓名、总成绩（列名sum_score）。

```
CREATE VIEW test6_02(sid, name, sum_score) as
SELECT sid, name, sum(score) FROM pub.student NATURAL JOIN pub.student_co
urse
WHERE class = 2009 and dname = '软件学院' GROUP BY sid, name;
```

- 查询2010级、计算机科学与技术学院、操作系统的学生成绩表，内容有学号、姓名、成绩。

```
CREATE view test6_03 as SELECT stu.sid, stu.name, sc.score
FROM pub.student stu, pub.student_course sc, pub.course c
where stu.sid = sc.sid and sc.cid = c.cid and
class = 2010 and dname = '计算机科学与技术学院' AND c.name = '操作系统';
```

- 找出选修"数据库系统"课程，且成绩大于90的学生的学号、姓名.。

```
CREATE view test6_04 as SELECT s.sid, s.name
FROM pub.student s, pub.student_course sc, pub.course c
```

```
WHERE s.sid = sc.sid and sc.cid = c.cid and c.name = '数据库系统' and score
 > 90;
```

- 找出姓名叫"李龙"的学生的学号及其选修全部课程的课程号、课程名和成绩。

```
CREATE view test6_05 as SELECT s.sid, sc.cid, c.name, sc.score
FROM pub.student s, pub.student_course sc, pub.course c
WHERE s.sid = sc.sid and sc.cid = c.cid and s.name = '李龙';
```

- 找出选修了所有课程的学生的学号、姓名。

```
CREATE view test6_06 as
SELECT sid, name from pub.student WHERE sid in
(SELECT sid FROM pub.student_course sc1 WHERE not EXISTS
(SELECT cid FROM pub.course minus
SELECT cid FROM pub.student_course sc2 where sc1.sid = sc2.sid));
```

- 找出选修了所有课程并且所有课程全部通过的学生的学号、姓名。

```
CREATE view test6_07 AS
SELECT sid, name FROM pub.student where sid in
(select sid FROM pub.student_course sc1 WHERE not EXISTS
    (SELECT cid FROM pub.course MINUS
        (SELECT cid FROM pub.student_course sc2 WHERE sc1.sid = sc2.sid a
nd sc2.score >= 60)
    )
)
```

- 检索先行课的学分为2的课程号、课程名。

```
CREATE view test6_08 AS
SELECT c1.cid, c1.name FROM pub.course c1, pub.course c2
where c1.fcid = c2.cid and c2.credit = 2;
drop vIEW test6_03;
```

- 查询统计2010级、化学与化工学院的学生总学分表，内容有学号、姓名、总学分sum_credit。

```
CREATE view test6_09 as
SELECT s.sid, s.name, sum(credit) sum_credit
FROM pub.student s, pub.student_course sc, pub.course c
WHERE s.sid = sc.sid and sc.cid = c.cid and
s.class = '2010' and s.dname = '化学与化工学院' and sc.score >= 60
GROUP BY s.sid, s.name
```

- 找出有间接先行课的所有课程的课程号、课程名称。

```sql
CREATE view test6_10 AS
SELECT c1.cid, c1.name FROM pub.course c1, pub.course c2, pub.course c3
WHERE c1.fcid = c2.cid AND c2.fcid = c3.cid;
```

- 找出有间接先行课的所有课程的课程号、课程名称。

```sql
CREATE view test6_10 AS
SELECT c1.cid, c1.name FROM pub.course c1, pub.course c2, pub.course c3
WHERE c1.fcid = c2.cid AND c2.fcid = c3.cid;
```