实验六-创建视图, 删除视图

宋振华 201605301357

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1 实验要求

2 实验题目

1. 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.

```sql
create view test6_01 as
select sid, name, dname
from pub.student
where age < 20
    and dname = '物理学院'
order by sid;
```

2. 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).

```sql
create view test6_02 as
select sid, name, sum(score) sum_score
from pub.STUDENT natural join pub.STUDENT_COURSE
where class = '2009'
    and dname = '软件学院'
group by sid, name;
```

3. 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.

```
1  create view test6_03 as
2  select a.SID, a.NAME,
3      b.SCORE from pub.STUDENT a,
4      pub.STUDENT_COURSE b,
5      pub.COURSE c
6  where a.SID = b.SID
7      and b.CID = c.CID
8      and a.CLASS = '2010'
9      and a.DNAME = '计算机科学与技术学院'
10     and c.NAME = '操作系统';
```

4. 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.

```
1  create view test6_04 as
2  select a.SID,
3      a.NAME from pub.STUDENT a,
4      pub.STUDENT_COURSE b,
5      pub.COURSE c
6  where a.SID = b.SID
7      and b.CID = c.CID
8      and b.score > 90
9      and c.NAME = '数据库系统';
```

5. 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.

```
1  create view test6_05 as
2  select c.CID,
3      c.name,
4      b.score
5  from pub.STUDENT a,
6      pub.STUDENT_COURSE b,
7      pub.COURSE c
8  where a.SID = b.SID
9      and b.CID = c.CID
```

```
10        and a.name = '李龙';
```

6. 找出选修了所有课程的学生的学号, 姓名.

```
1  create view test6_06 as
2  select b.name,
3      b.sid
4  from pub.STUDENT b
5  where not exists (
6      (select cid
7      from pub.COURSE)
8      minus
9      (select a.cid
10     from pub.STUDENT_COURSE a
11     where a.sid = b.sid)
12 );
```

7. 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.

```
1  create view test6_07 as
2  select b.name,
3      b.sid
4  from pub.STUDENT b
5  where not exists (
6      (select cid
7      from pub.COURSE)
8      minus
9      (select a.cid
10     from pub.STUDENT_COURSE a
11     where a.sid = b.sid
12         and a.score > 59)
13 );
```

8. 检索先行课的学分为 2 的课程号, 课程名.

```
1  create view test6_08 as
```

```
2  select a.cid,
3      a.name
4  from pub.COURSE a,
5      pub.COURSE b
6  where a.FCID = b.CID
7      and b.CREDIT = 2;
```

9. 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.

```
1  create view test6_09 as
2  select a.sid,
3      a.name,
4      sum(c.credit) sum_credit
5  from pub.STUDENT a,
6      pub.STUDENT_COURSE b,
7      pub.COURSE c
8  where a.sid = b.sid
9      and b.cid = c.cid
10     and b.SCORE > 59
11     and a.class = '2010'
12     and a.dname = '化学与化工学院'
13 group by a.sid, a.name;
```

10. 找出有间接先行课的所有课程的课程号, 课程名称.

```
1  create view test6_10 as
2  select a.cid,
3      a.name
4  from pub.COURSE a,
5      pub.COURSE b,
6      pub.COURSE c
7  where a.FCID = b.CID
8      and b.FCID = c.CID;
```