## 实验报告3-20301174-万兴全

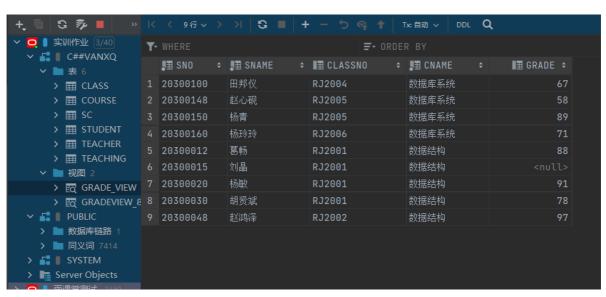
数据操作详细过程(包含SQL命令及执行结果展示)。

本次作业满分为40分, 每题5分。

使用SQL命令执行如下操作:

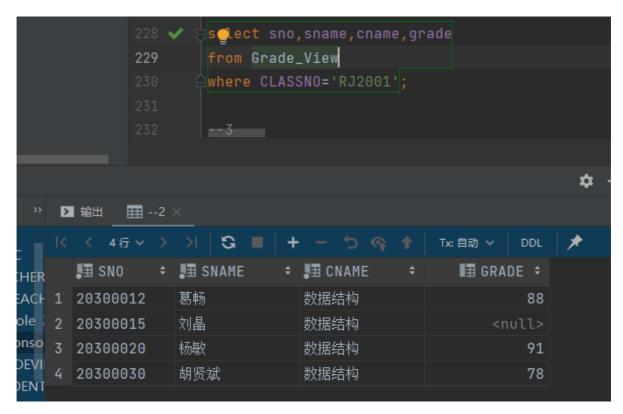
(1) 创建视图Grade\_View显示所有同学的选课及成绩情况,列出学生的学号、姓名、班号、课程名称和成绩。

```
create view Grade_View as
   select student.SNO,student.SNAME,student.CLASSNO,CNAME ,sc.grade
   from student,course ,sc
   where sc.cno=course.cno and sc.sno=student.sno;
```



(2) 在视图Grade\_View中查询"软件2001"班的同学的选课及成绩情况,显示学号、姓名、课程名称、成绩

```
select sno,sname,cname,grade
from Grade_View
where CLASSNO='RJ2001';
```

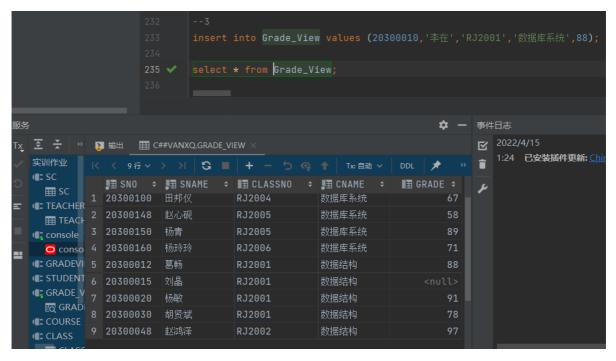


(3) 在视图Grade\_View中插入如下元组: 20300010, 李在,软件2001,数据库系统,88 (此为不成功的操作)。查询视图或基表记录验证视图操作。

insert into Grade\_View values (20300010,'李在','RJ2001','数据库系统',88);

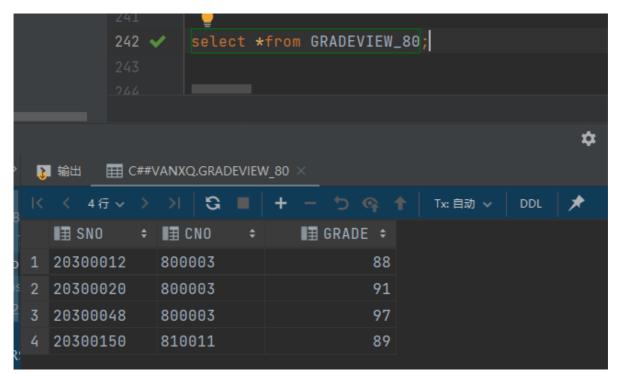
```
233 () insert into Grade_View values (20300010, '李在', 'RJ2001', '数据库系统', 88);
[42000][1779] ORA-01779: 无法修改与非键值保存表对应的列
Position: 0
```

select \* from Grade\_View;



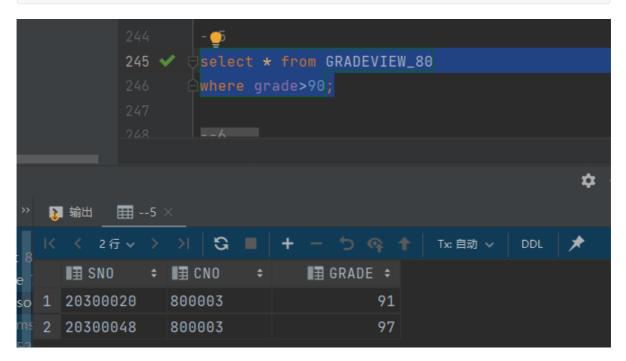
(4) 创建视图GradeView\_80,用于存放成绩高于80分(含80)的选课信息,显示学号、课程号和成绩,使用with check option选项。查询视图或基表记录验证视图操作。

```
create view GradeView_80 as
    select sno,cno,grade
    from sc
    where grade>=80
    with check option ;
select *from GRADEVIEW_80;
```



(5) 在视图GradeView\_80中查询成绩高于90的选课信息。

```
select * from GRADEVIEW_80
where grade>90;
```



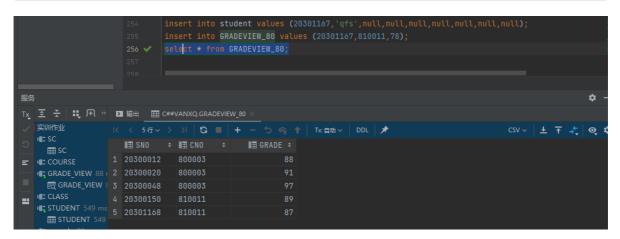
(6) 在视图GradeView\_80中依次插入如下元组:

20301168, 810011, 87 (可插入成功)

```
insert into student values (20301168,'rr',null,null,null,null,null,null,null);
insert into GRADEVIEW_80 (sno, cno, grade) values ('20301168','810011',87);
select * from GRADEVIEW_80;
```

20301167, 810011, 78 (插入不成功)

```
insert into student values (20301167, 'qfs', null, null
```



查询视图或基表记录验证视图操作。

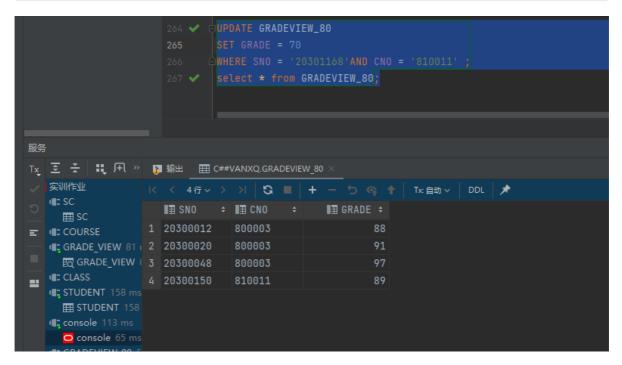
(7) 在视图GradeView\_80中依次修改如下元组

将 (20301168, 810011) 所对应的成绩改为90; (可修改成功)

```
UPDATE GRADEVIEW_80
SET GRADE = 90
WHERE SNO = '20301168'AND CNO = '810011';
select * from GRADEVIEW_80;
```

将 (20301168, 810011) 所对应的成绩改为70; (修改不成功)

```
UPDATE GRADEVIEW_80
SET GRADE = 70
WHERE SNO = '20301168'AND CNO = '810011';
select * from GRADEVIEW_80;
```



查询视图或基表记录验证视图操作。

(8) 在视图GradeView\_80中删除如下元组: sno=20301168, cno=810011。

查询视图或基表记录验证视图操作。

```
insert into GRADEVIEW_80 (sno, cno, grade) values ('20301168','810011',87);
select * from GRADEVIEW_80;
```

至于删除,不知是哪种情况,我把两种我的想法列出来

```
--第二种
delete
from GRADEVIEW_80
where sno='20301168' and cno = 810011;
select * from GRADEVIEW_80;
```

## 附 本实验报告源代码

```
--第三次实验报告
--1
create view Grade_View as
   select student.SNO,student.SNAME,student.CLASSNO,CNAME ,sc.grade
    from student, course ,sc
   where sc.cno=course.cno and sc.sno=student.sno;
--2
select sno, sname, cname, grade
from Grade_View
where CLASSNO='RJ2001';
--3
insert into Grade_View values (20300010,'李在','RJ2001','数据库系统',88);
select * from Grade_View;
--4
create view GradeView_80 as
   select sno,cno,grade
   from sc
   where grade>=80;
select *from GRADEVIEW_80;
select * from GRADEVIEW_80
where grade>90;
--6
insert into student values (20301168, 'rr', null, null, null, null, null, null);
```

```
insert into GRADEVIEW_80 (sno, cno, grade) values ('20301168','810011',87);
select * from GRADEVIEW_80;
insert into student values (20301167, 'qfs', null, null, null, null, null, null);
insert into GRADEVIEW_80 values (20301167,810011,78);
select * from GRADEVIEW_80;
--7
UPDATE GRADEVIEW_80
SET GRADE = 90
WHERE SNO = '20301168'AND CNO = '810011';
select * from GRADEVIEW_80;
UPDATE GRADEVIEW_80
SET GRADE = 70
WHERE SNO = '20301168'AND CNO = '810011';
select * from GRADEVIEW_80;
--8
insert into GRADEVIEW_80 (sno, cno, grade) values ('20301168','810011',87);
select * from GRADEVIEW_80;
UPDATE GRADEVIEW_80
SET SNO = '',
   CNO = ''
WHERE SNO = '20301168' AND CNO = '810011';
select * from GRADEVIEW_80;
```