

实验四

本组实验综合考察表格的创建和修改，可以使用前两组实验的 create table as 实现，减少工作量

执行下面的语句：

```
create table test4_01 as
select sid,name,sex,age,birthday,dname,class,sum(score) sum_score
from pub.STUDENT_41 natural left outer join pub.STUDENT_COURSE
group by sid,name,sex,age,birthday,dname,class
```

```
create table test4_02 as
select sid,name,sex,age,birthday,dname,class,round(avg(score),1) avg_score
from pub.STUDENT_41 natural left outer join pub.STUDENT_COURSE
group by sid,name,sex,age,birthday,dname,class
```

```
create table test4_03 as
select sid, pub.STUDENT_41.name,sex,age,birthday,dname,class,sum(credit*w) sum_credit
from ( pub.STUDENT_41 natural left outer join (
    select sid,cid,1 w from pub.STUDENT_COURSE group by sid,cid having max(score) >= 60 union
    select sid,cid,0 w from pub.STUDENT_COURSE group by sid,cid having not max(score) >= 60
) ) left outer join pub.COURSE using (cid)
group by sid, pub.STUDENT_41.name,sex,age,birthday,dname,class
```

```
create table test4_04 as
select sid, pub.STUDENT_41.name,sex,age,birthday, pub.DEPARTMENT.DID dname,class
from pub.STUDENT_41 natural join pub.DEPARTMENT
union
select sid, pub.STUDENT_41.name,sex,age,birthday,dname,class
from pub.STUDENT_41 natural left outer join pub.DEPARTMENT
where did is null
```

```
create table test4_05 as
select sid,name,sex,age,birthday,dname,class,sum_score,avg_score,sum_credit,did from
(select sid,did
from pub.STUDENT_41 natural join (select * from pub.DEPARTMENT union select * from pub.DEPARTMENT_41)
union
select sid,'00' did
```

```

from pub.STUDENT_41 natural left outer join
    (select * from pub.DEPARTMENT union select * from pub.DEPARTMENT_41)
where did is null)
natural join
    (select sid,sum(credit*w) sum_credit
    from ( pub.STUDENT_41 natural left outer join (
        --这里注意,有些人选同一门课多次,要做适当处理
        select sid,cid,1 w from pub.STUDENT_COURSE group by sid,cid having max(score) >= 60 union
        select sid,cid,0 w from pub.STUDENT_COURSE group by sid,cid having not max(score) >= 60
    ) ) left outer join pub.COURSE using (cid)
    group by sid, pub.STUDENT_41.name, sex, age, birthday, dname, class)
natural join
    (select sid,round(avg(score),1) avg_score
    from pub.STUDENT_41 natural left outer join pub.STUDENT_COURSE
    group by sid, name, sex, age, birthday, dname, class)
natural join
    (select sid,name,sex,age,birthday,dname,class,sum(score) sum_score
    from pub.STUDENT_41 natural left outer join pub.STUDENT_COURSE
    group by sid,name,sex,age,birthday,dname,class)

create table test4_06 as
select sid,replace(name,' ','') name,sex,age,birthday,dname,class
from pub.STUDENT_42

create table test4_07 as
select sid,name,case
    when sex='男性' then '男'
    when sex='女性' then '女'
    else replace(sex,' ','') end sex,age,birthday,dname,class
from pub.STUDENT_42

create table test4_08 as
select sid,name,sex,age,birthday,dname,replace(class,'级','') class
from pub.STUDENT_42

create table test4_09 as
select sid,name,sex,case
    when age is null then 2012-extract(year from birthday)
    else age end age,birthday,dname,class
from pub.STUDENT_42

```

```
create table test4_10 as
select sid,
       replace(name, ' ', '') name,
       case
         when sex='男性' then '男'
         when sex='女性' then '女'
         else replace(sex, ' ', '') end sex,
       case
         when age is null then 2012-extract(year from birthday)
         else age end age,
       birthday,
       replace(dname, ' ', '') dname,
       replace(class, '级', '') class
from pub.STUDENT_42
```

截图：

文件(F) 编辑(E) SQL执行(O) 显示(V) 管理(A) 工具(T) 窗体(W) 帮助(H)

USER201605301353 @ 211

SQL 数据库 USER201605301353 @ 211

执行(E) 上一个(P) 下一个(N) 历史纪录(L) 退出(X)

1 select * from dbsql

结果

	TIME	SQL	RETURNCODE
	2019-04-26 19:58:47	create table test4_10 as select sid, replace(name,' ','') name, case	0
	2019-04-26 19:58:44	drop table test4_10	0
	2019-04-26 19:58:28	create table test4_10 as select sid, replace(name,' ','') name, case	955
	2019-04-26 19:34:33	create table test4_10 as select sid, replace(name,' ','') name, case	0
	2019-04-26 19:24:20	create table test4_09 as select sid,name,sex,case when age is null then 2012	0
	2019-04-26 19:22:38	create table test4_08 as select sid,name,sex,age,birthday,dname,replace(clas	0
	2019-04-26 19:19:16	create table test4_07 as select sid,name,case when sex='男性' then '男'	0
	2019-04-26 19:13:38	create table test4_06 as select sid,replace(name,' ','') name,sex,age,birthd	0
	2019-04-26 19:03:25	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	0
	2019-04-26 19:02:49	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	904
	2019-04-26 19:02:15	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	907
	2019-04-26 19:02:04	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	907
	2019-04-26 18:58:37	drop table test4_05	0
	2019-04-26 18:58:28	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	0
	2019-04-26 18:58:23	drop table test4_05	0
	2019-04-26 18:58:13	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	955
	2019-04-26 18:55:50	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	955
	2019-04-24 17:17:34	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	0
	2019-04-24 17:17:27	drop table test4_05	0
	2019-04-24 17:17:10	create table test4_05 as select sid,name,sex,age,birthday,dname,class,sum_sc	955

USER201605301353 @ 211.87.227.230/ORCL SQL USER201605301353 @ 211.87.227.230/ORCL

处理时间00:00:00