

7-1

```
create table a as (select substr(name,2) as first_name
from pub.student)
create table test7_01 as (select first_name ,count(first_name) as frequency
from a group by first_name)
drop table a
```

7-2

```
create table a as (select substr(name,2,1) as letter
from pub.student union all select substr(name,3,1) as letter
from pub.student)
create table test7_02 as (select letter ,count(*) as frequency
from a
```

where letter is not null //如果不写这一句话，会多一行空数据，即名字为空的也算

进去了

```
group by letter)
drop table a
```

另一种做法

```
create table test7_02 (letter varchar(2),frequency numeric(4))
```

```
insert into test7_02
select letter,count(letter)
from
((select substr(name,2,1) letter
from pub.student)
union all
(select substr(name,3,1) letter
from pub.student))
where letter is not null
group by letter
```

//通过这个，我明白了在 from 中也可以写 select 表达式。

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```
create table a as select pub.STUDENT.SID,sum(credit) as sum_credit
from pub.STUDENT,pub.COURSE,pub.STUDENT_COURSE
where pub.STUDENT.sid=pub.student_course.sid and
pub.STUDENT_COURSE.cid=pub.course.cid and pub.student_course.score>=60
group by pub.STUDENT.SID;
```

```
create table test7_03(dname varchar(30),class varchar(10),p_count1 int,p_count2
int,p_count int)
```

```
insert into test7_03(dname,class)
select distinct dname,class
from pub.STUDENT
where dname is not null
order by dname,class
```

```
update test7_03 t
set p_count1=(select count(s.sid)
from (select * from a) sc,pub.STUDENT s
where s.sid=sc.sid and sum_credit>=10 and t.dname=s.dname
and t.class=s.class )
```

```
update test7_03 t
set p_count=
(select count(s.sid)
from pub.student s
where t.dname=s.dname and t.class=s.class)
```

```
update test7_03 t
set p_count2=
(select tt.p_count-t.p_count1
from test7_03 tt
where t.dname=tt.dname and t.class=tt.class)
```

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```
create table test7_04(dname varchar(30),class varchar(10),p_count1 int,p_count2
int,p_count int)
```

```
insert into test7_04(dname,class)
select distinct dname,class
from pub.STUDENT
where dname is not null
order by dname,class
```

//加入了 case 判断

```
update test7_04 t
set p_count1=case
when t.class<=2008 then(select count(s.sid)
from (select * from a) sc,pub.STUDENT s
```

```
where s.sid=sc.sid and sum_credit>=8 and t.dname=s.dname
and t.class=s.class and s.class<=2008)
else (select count(s.sid)
from (select * from a) sc, pub.STUDENT s
where s.sid=sc.sid and sum_credit>=10 and t.dname=s.dname
and t.class=s.class and s.class>2008)
end
```

```
update test7_04 t
set p_count=
(select count(s.sid)
from pub.student s
where t.dname=s.dname and t.class=s.class)
```

```
update test7_04 t
set p_count2=
(select tt.p_count-t.p_count1
from test7_03 tt
where t.dname=tt.dname and t.class=tt.class)
```

```
update dbtest set test =8
select * from dbscore
```