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。

7-3

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)

7-4

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