drop table iamarks cascade constraints;

create table student

(usn varchar(10),

sname varchar(20),

address varchar(20),

phone number(10),

gender varchar(1),

primary key(usn));

desc student;

create table semsec

(ssid varchar(10),

sem number(1),

sec varchar(1),

primary key(ssid));

desc semsec;

create table class

(usn varchar(10),

ssid varchar(10),

primary key(usn,ssid),

foreign key(usn)references student(usn),

foreign key(ssid)references semsec(ssid));

desc class;

create table subject

(subcode varchar(10),

title varchar(20),

sem number(1),

credits number(2),

primary key(subcode));

desc subject;

create table iamarks

(usn varchar(10),

subcode varchar(10),

ssid varchar(10),

test1 number(3),

test2 number(3),

test3 number(3),

finalia number(3),

primary key(usn,subcode,ssid),

foreign key(usn)references student(usn),

foreign key(subcode)references subject(subcode),

foreign key(ssid)references semsec(ssid));

desc iamarks;

insert into student values('4DM16CS122','Vinayaka','Chikmanglur',8800880011,'M');

select \* from student;

insert into semsec values('CSE1A',1,'A');

insert into semsec values('CSE1B',1,'B');

insert into semsec values('CSE1C',1,'C');

select \* from semsec;

insert into class values('4DM16CS122','CSE3C');

delete from class where USN='4DM13CS062';

select \* from class;

insert into subject values('15CS36','DMS',3,3);

delete from subject where subcode='10CS83';

select \* from subject;

insert into iamarks (usn,subcode,ssid,test1,test2,test3) values ('4DM13CS066','10CS85','CSE8B',19,13,1);

select \* from iamarks;

select \* from student st

inner join class c on st.usn=c.usn

inner join semsec ss on c.ssid=ss.ssid

where ss.sem=4 and ss.sec='C';

select ss.sem,ss.sec,st.gender,count(st.gender) as count from student st

inner join class c on st.usn=c.usn

inner join semsec ss on c.ssid=ss.ssid

group by(ss.sem,ss.sec,st.gender) order by ss.sem;

create view test1 as

select im.\* from student st

inner join iamarks im on im.usn=st.usn

where st.usn='4DM13CS091';

create view highestvalue as

select usn,subcode,oldmark,row\_number()

over(partition by subcode, usn order by oldmark) as dencevalue

from(select usn,subcode,test1 as oldmark

from iamarks

union all

select usn,subcode,test2 as oldmark from iamarks

union all

select usn,subcode,test3 as oldmark from iamarks);

select \* from highestvalue;

update iamarks

set iamarks.finalia=(

select sum(oldmark)/count(oldmark)

from highestvalue hv

where dencevalue!=1 and hv.subcode=iamarks.subcode and hv.usn=iamarks.usn

group by hv.subcode, hv.usn);

select

s.usn,sub.subcode,s.sname,s.address,s.phone,s.gender,

(case

when ia.finalia between 17 and 20 then 'OUTSTANDING'

when ia.finalia between 12 and 16 then 'AVERAGE'

else 'WEAK'

end) as cat

from student s

inner join iamarks ia on s.usn=ia.usn

inner join semsec ss on ss.ssid=ia.ssid

inner join subject sub on sub.subcode=ia.subcode

where sub.sem=8;