

Aishwarya.M

4A

Program

```
create database college;
```

```
use college;
```

```
create table student (
```

```
usn varchar(10) primary key,
```

```
sname varchar(20),
```

```
address varchar(20),
```

```
phone long,
```

```
gender char(1)
```

```
);
```

```
create table semsec(
```

```
ssid varchar(5) primary key,
```

```
sem int,
```

```
sec char(1));
```

```
create table class(
```

```
usn varchar(10),
```

```
ssid varchar(5),
```

```
primary key(usn,ssid),
```

```
foreign key (usn)references student(usn),  
foreign key(ssid) references semsec(ssid));
```

```
create table subject(  
subcode varchar(8) primary key,  
title varchar(10),  
sem int,  
creadits int);
```

```
create table iamarks(  
usn varchar(10),  
subcode varchar(8),  
ssid varchar(5),  
test1 int,  
test2 int,  
test3 int,  
finalia int,  
primary key(usn,subcode,ssid),  
foreign key(usn)references student(usn),  
foreign key(subcode)references subject(subcode),  
foreign key(ssid)references semsec(ssid));
```

```
insert into student  
values('1RN13CS020','AKSHAY','BELAGAVI',8877881122,'M'),
```

('1RN13CS062','SANDHYA','BENGALURU',7722829912,'F'),
('1RN13CS091','TEESHA','BENGALURU',7712312312,'F') ,
('1RN13CS066','SUPRIYA','MANGALURU',8877881122,'F'),
('1RN14CS010','ABHAY','BENGALURU',9900211201,'M'),
('1RN14CS032','BHASKAR','BENGALURU',9923211099,'M'),
('1RN14CS025','ASMI','BENGALURU',7894737377,'F'),
('1RN15CS011','AJAY','TUMKUR',9845091341,'M'),
('1RN15CS029','CHITRA','DAVANGERE',7696772121,'F'),
('1RN15CS045','JEEVA','BELLARY',9944850121,'M'),
('1RN15CS091','SANTOSH','MANGALURU',8812332201,'M'),
('1RN16CS045','ISMAIL','KALBURGI',9900232201,'M'),
('1RN16CS088','SAMEERA','SHIMOGA',9905542212,'F'),
('1RN16CS122','VINAYAKA','CHIKAMAGALUR',8800880011,'M');

insert into semsec values('CSE8A', 8,'A'),
('CSE8B', 8,'B'),
('CSE8C', 8,'C'),
('CSE7A', 7,'A'),
('CSE7B', 7,'B'),
('CSE7C', 7,'C'),
('CSE6A', 6,'A'),
('CSE6B', 6,'B'),
('CSE6C', 6,'C'),

('CSE5A', 5, 'A'),
('CSE5B', 5, 'B'),
('CSE5C', 5, 'C'),
('CSE4A', 4, 'A'),
('CSE4B', 4, 'B'),
('CSE4C', 4, 'C'),
('CSE3A', 3, 'A'),
('CSE3B', 3, 'B'),
('CSE3C', 3, 'C'),
('CSE2A', 2, 'A'),
('CSE2B', 2, 'B'),
('CSE2C', 2, 'C'),
('CSE1A', 1, 'A'),
('CSE1B', 1, 'B'),
('CSE1C', 1, 'C');

insert into class values('1RN13CS020', 'CSE8A'),
('1RN13CS062', 'CSE8A'),
('1RN13CS066', 'CSE8B'),
('1RN13CS091', 'CSE8C'),
('1RN14CS010', 'CSE7A'),
('1RN14CS025', 'CSE7A'),
('1RN14CS032', 'CSE7A'),

('1RN15CS011','CSE4A'),
('1RN15CS029','CSE4A'),
('1RN15CS045','CSE4B'),
('1RN15CS091','CSE4C'),
('1RN16CS045','CSE3A'),
('1RN16CS088','CSE3B'),
('1RN16CS122','CSE3C');

INSERT INTO SUBJECT VALUES ('10CS81','ACA', 8, 4),
('10CS82','SSM', 8, 4),
('10CS83','NM', 8, 4),
('10CS84','CC', 8, 4),
('10CS85','PW', 8, 4),
('10CS71','OOAD', 7, 4),
('10CS72','ECS', 7, 4),
('10CS73','PTW', 7, 4),
('10CS74','DWDM', 7, 4),
('10CS75','JAVA', 7, 4),
('10CS76','SAN', 7, 4),
('15CS51', 'ME', 5, 4),
('15CS52','CN', 5, 4),
('15CS53','DBMS', 5, 4),
('15CS54','ATC', 5, 4),

('15CS55','JAVA', 5, 3),
('15CS56','AI', 5, 3),
('15CS41','M4', 4, 4),
('15CS42','SE', 4, 4),
('15CS43','DAA', 4, 4),
('15CS44','MPMC', 4, 4),
('15CS45','OOC', 4, 3),
('15CS46','DC', 4, 3),
('15CS31','M3', 3, 4),
('15CS32','ADE', 3, 4),
('15CS33','DSA', 3, 4),
('15CS34','CO', 3, 4),
('15CS35','USP', 3, 3),
('15CS36','DMS', 3, 3);

INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES

('1RN13CS091','10CS81','CSE8C', 15, 16, 18);

INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES

('1RN13CS091','10CS82','CSE8C', 12, 19, 14);

INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES

('1RN13CS091','10CS83','CSE8C', 19, 15, 20);

INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES

('1RN13CS091','10CS84','CSE8C', 20, 16, 19);

```
INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES  
( '1RN13CS091', '10CS85', 'CSE8C', 15, 15, 12);
```

```
/* 1. list all the student details studying in fourth semester 'C' section */
```

```
select s.*,ss.sem,ss.sec from student s, semsec ss, class c
```

```
where s.usn=c.usn and
```

```
ss.ssid=c.ssid and
```

```
ss.sem=4 and ss.sec='c';
```

Result Grid							
		Filter Rows:		Export:		Wrap Cell Content:	
	usn	sname	address	phone	gender	sem	sec
▶	1RN15CS091	SANTOSH	MANGALURU	8812332201	M	4	C

```
/*compute the total number of male and female students in each semester  
and in each section */
```

```
select ss.sem,ss.sec,s.gender,count(s.gender) as count
```

```
from student s, semsec ss, class c
```

```
where s.usn=c.usn and
```

```
ss.ssid = c.ssid
```

```
group by ss.sem,ss.sec,s.gender
```

```
order by sem;
```

Result Grid				
	sem	sec	gender	count
▶	3	A	M	1
	3	B	F	1
	3	C	M	1
	4	A	F	1
	4	A	M	1
	4	B	M	1
	4	C	M	1
	7	A	F	1
	7	A	M	2
	8	A	F	1
	8	A	M	1
	8	B	F	1
	8	C	F	1

/*create a view of test1 marks of the student usn'1BI15CS101' in all subjects */

create view stu_test1_marks_view as select test1 , subcode from iamarks

where usn='1RN13CS091';

select * from stu_test1_marks_view;

Result Grid		
	test1	subcode
▶	15	10CS81
	12	10CS82
	19	10CS83
	20	10CS84
	15	10CS85

/*categorize student based on the following criterion:

if finalis= 17 to 20 then cat='outstanding'

if finalis= 12 to 16 then cat='average'

if finalia <12 then cat='weak'

give these details only for 8th semester a,b and c sections students*/


```
select s.usn,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, semsec ss, iamarks ia, subject sub
```

```
where s.usn=ia.usn and
```

```
ss.ssid = ia.ssid and sub.subcode=ia.subcode and sub.sem=8;
```

	usn	sname	address	phone	gender	cat
►	1RN13CS091	TEESHA	BENGALURU	7712312312	F	weak
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	weak
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	weak
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	weak
	1RN13CS091	TEESHA	BENGALURU	7712312312	F	weak