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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),
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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'),
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('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'),
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('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'),
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('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),
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('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);
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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';



/\*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

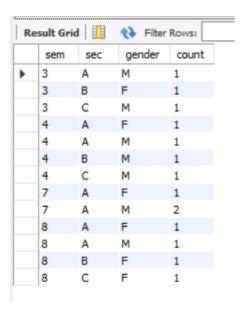
from student s, semsec ss, class c

where s.usn=c.usn and

ss.ssid = c.ssid

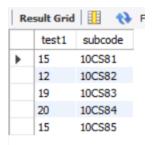
group by ss.sem,ss.sec,s.gender

order by sem;



/\*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;



/\*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