DBMS Lab Test 2.

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1BM19CS107
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Write up

```
create database college;
use college;
create table student(
USN varchar(10),
SName varchar(30),
Address varchar(100),
Phone bigint,
Gender varchar(6),
primary key(USN)
);

create table SEMSECC
SSID int,
Sem int,
Sec varchar(1);
primary key(SSID)
);

create table class
(
USN varchar(10),
SSID int,
foreign key(USN) references Student(USN) on delete
cascade on update cascade,
foreign key(SSID) references SemSec(SSID) on delete
Cascade on update cascade
);

.create table subject(
Subcode varchar(10),
Title varchar(30),
Sem int,
credits int,
primary key(Subcode));
```

insert into student values ('IBM19CSI07', 'Nitish', 'Tumkur', 966339193 'male');

insert into semsec values (1, 4,'B');

insert into class values ('IBM19CS107', 1);

insert into subject values ('11', 'DBMS', 4, 4);

create table IAMarks (
USN varchar(40),
Subcode varchar(20),
SSID int,
Test1 int,
Test2 int,
Test3 int,
FinalIA Real,

Foreign Key (USN) references Student (USN) on delete cascade
on update cascade,

Foreign Key (subcode) references subject (subcode) on
delete cascade on update cascade,

Foreign Key (SSID) references SEMSEC (SSID) on
delete cascade on update cascade);

insert into IAMarks values ('IBM19CS107', '11', 1,29,18,20,
20);

(i) select s.* from student s join class c on
S.USN = c.USN join semsec ss on c.ssid = SS.ssid
where ss.sem = 4 and sec = 'C';

(ii) select SS.sem, SS.sec, S.gender, count (s.gender)
as count from student s join class c on
S.USN = c.USN join semsec ss on
c.ssid = ss.ssid group by SS.sem, SS.sec,

ss, gender;

iii)
create view Test1_marks as select subcode, Test1 from
IAmarks where usn = '1IA15CS103';
Select * from Test1_marks;

(iv)
Select S.USN, S.SName from student S, IAMARKS I
where S.USN = I.USN and Finalia < 15;

(v)
Select S.USN, S.SName from student S, subject A,
IAmarks I where S.USN = I.USN and A.subcode = I.subco
having count(A.credits) = 20;