```
create database college;
use college;
CREATE TABLE STUDENT (
USN VARCHAR (10) PRIMARY KEY,
SNAME VARCHAR (25),
ADDRESS VARCHAR (25),
PHONE int (10),
GENDER CHAR (1));
CREATE TABLE SEMSEC (
SSID VARCHAR (5) PRIMARY KEY,
SEM int (2),
SEC CHAR (1));
CREATE TABLE CLASS (
USN VARCHAR (10),
SSID VARCHAR (5),
PRIMARY KEY (USN),
FOREIGN KEY (USN) REFERENCES STUDENT (USN),
FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
CREATE TABLE SUBJECT (
SUBCODE VARCHAR (8),
TITLE VARCHAR (20),
SEM int (2),
CREDITS int(2),
```

```
PRIMARY KEY (SUBCODE));
CREATE TABLE IAMARKS (
USN VARCHAR (10),
SUBCODE VARCHAR (8),
SSID VARCHAR (5),
TEST1 int (2),
TEST2 int (2),
TEST3 int (2),
FINALIA int (2),
FOREIGN KEY (USN) REFERENCES STUDENT (USN),
FOREIGN KEY (SUBCODE) REFERENCES SUBJECT (SUBCODE),
FOREIGN KEY (SSID) REFERENCES SEMSEC (SSID));
INSERT INTO STUDENT VALUES ('1BM19CS066', 'SUPRIYA', 'MANGALURU',
8871122,'F');
INSERT INTO SEMSEC VALUES ('4A', 4,'A');
INSERT INTO CLASS VALUES ('1BM19CS066','4B');
INSERT INTO SUBJECT VALUES ('10CS81', 'ADA', 4, 4);
INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES
('1BM19CS011','10CS81','4C', 10, 16, 08);
select * FROM STUDENT S JOIN CLASS C ON S.USN=C.USN AND SSID='4C';
```

SELECT SEM,SEC,GENDER,COUNT(GENDER) FROM STUDENT S JOIN CLASS C ON S.USN=C.USN JOIN SEMSEC SE ON C.SSID=SE.SSID GROUP BY GENDER,SEM,SEC ORDER BY SEM;

CREATE VIEW T1 AS SELECT SUBCODE, TEST1 FROM IAMARKS WHERE USN='1BM18CS032';

SELECT * FROM T1;

SELECT S.USN,S.SNAME,S.ADDRESS,S.PHONE,S.GENDER,

(CASE

WHEN IA.TEST1 BETWEEN 17 AND 20 THEN 'OUTSTANDING'

WHEN IA.TEST1 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 = 6;

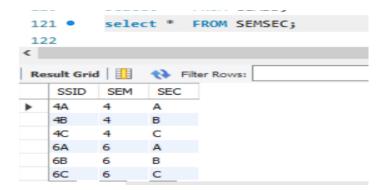
TABLES:

1.

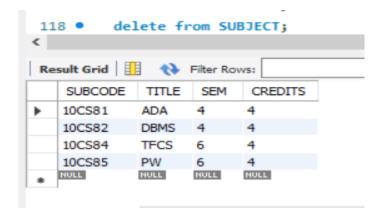
Result Grid 🏥 🙌 Filter Rov		vvs: Edit: 🔏 🗒		
USN	SNAME	ADDRESS	PHONE	GENDER
1BM18CS032	BHASKAR1	BENGALURU	992329	M
1BM18CS066	SUPRIYA1	MANGALURU	8871122	F
1BM19CS010	ABHAY	BENGALURU	990021	M
1BM19CS011	AJAY	TUMKUR	984341	M
1BM19CS025	ASMI	BENGALURU	78977	F
1BM19CS032	BHASKAR	BENGALURU	992329	M

2.

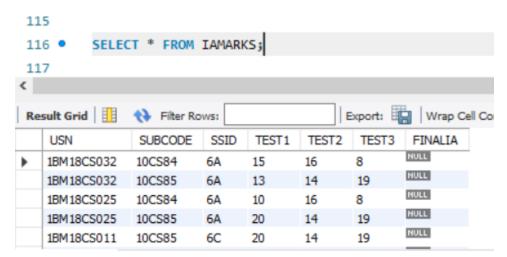
3.



4.

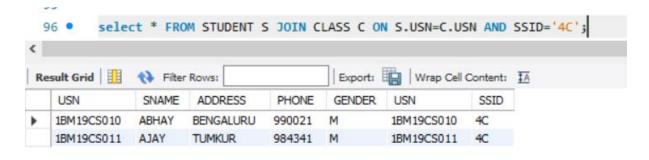


5.IAMARKS

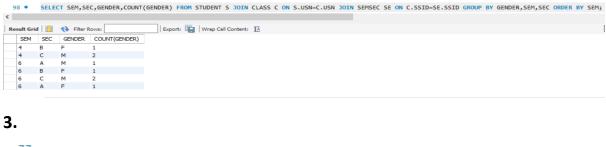


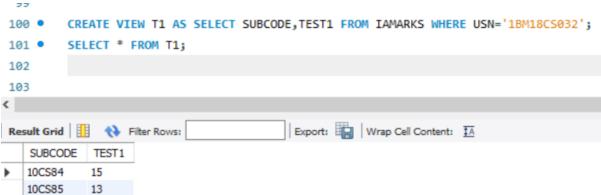
QUERY OUTPUT:

1.



2.





4.

```
144
 123 • SELECT S.USN, S.SNAME, S.ADDRESS, S.PHONE, S.GENDER,
 125
        WHEN IA.TEST1 BETWEEN 17 AND 20 THEN 'OUTSTANDING'
        WHEN IA.TEST1 BETWEEN 12 AND 16 THEN 'AVERAGE'
 126
        ELSE 'WEAK'
 127
       END) AS CAT
 128
       FROM STUDENT S, SEMSEC SS, IAMARKS IA, SUBJECT SUB
 129
       WHERE S.USN = IA.USN AND
 130
 131
       SS.SSID = IA.SSID AND
        SUB.SUBCODE = IA.SUBCODE AND
 132
        SUB.SEM = 6;
 133
                                    Export: Wrap Cell Content: IA
ADDRESS
                                      GENDER CAT
   USN
             SNAME
                               PHONE
             SUPRIYA1
   1BM 18CS066
                     MANGALURU
                               8871122 F
                                              WEAK
   1BM18CS010 ABHAY1 BENGALURU 990021 M
                                              WEAK
   1BM18CS011 AJAY1
                     TUMKUR
                               984341 M
                                              OUTSTANDING
   1BM18CS025 ASMI1 BENGALURU 78977 F OUTSTANDING
   1BM18CS032 BHASKAR1 BENGALURU 992329 M
                                              AVERAGE
   1BM18CS066 SUPRIYA1 MANGALURU 8871122 F WEAK
   18M18CS010 ABHAY1 BENGALURU 990021 M
                                              WFAK
Result 16 ×
```