VAIBHAVI PATIL
1BM19CS217
CSE SEC 'A'

```sql
CREATE DATABASE COLLEGEDATABASEENTRY;
USE COLLEGEDATABASEENTRY;

CREATE TABLE STUDENT (
USN VARCHAR (10),
SNAME VARCHAR (25),
ADDRESS VARCHAR (25),
PHONE LONG,
GENDER CHAR (1),
PRIMARY KEY (USN));

CREATE TABLE SEMSEC (
SSID VARCHAR (5),
SEM INT,
SEC CHAR (1),
PRIMARY KEY (SSID));

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),
TITLE VARCHAR (20),
SEM INT,
CREDITS INT,
PRIMARY KEY (SUBCODE));

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');


INSERT INTO STUDENT VALUES ('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),
```

```sql
 ('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 VALUES ('1RN13CS091','10CS81','CSE8C', 15, 16, 18,17),
 ('1RN13CS091','10CS82','CSE8C', 12, 19, 14,17),
 ('1RN13CS091','10CS83','CSE8C', 19, 15, 20,20),
 ('1RN13CS091','10CS84','CSE8C', 20, 16, 19,20),
 ('1RN13CS091','10CS85','CSE8C', 15, 15, 12,15);




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';



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 VIEW STU_TEST1_MARKS_VIEW
AS
SELECT TEST1, SUBCODE
FROM IAMARKS
WHERE USN = '1RN13CS091';

SELECT * FROM STU_TEST1_MARKS_VIEW;




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

```sql
(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;
```