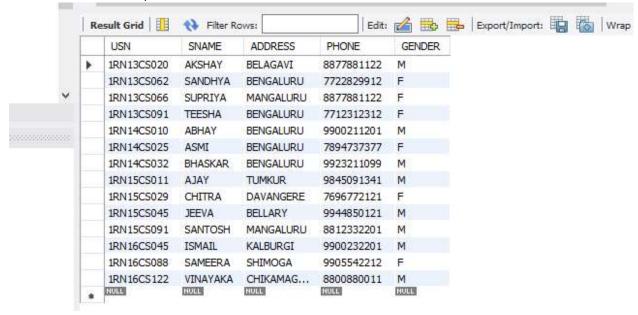
NAME: SWETHA PATIL

```
CREATE database COLLEGE;
USE COLLEGE;
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');
INSERT INTO STUDENT VALUES ('1RN13CS062', 'SANDHYA', 'BENGALURU', 7722829912, 'F');
INSERT INTO STUDENT VALUES ('1RN13CS091', 'TEESHA', 'BENGALURU', 7712312312, 'F');
INSERT INTO STUDENT VALUES ('1RN13CS066', 'SUPRIYA', 'MANGALURU', 8877881122, 'F');
```

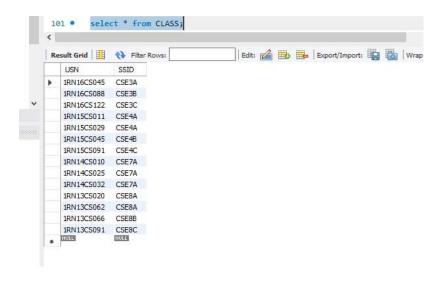
```
INSERT INTO STUDENT VALUES ('1RN14CS010','ABHAY','BENGALURU', 9900211201,'M');
INSERT INTO STUDENT VALUES ('1RN14CS032','BHASKAR','BENGALURU', 9923211099,'M');
INSERT INTO STUDENT VALUES ('1RN14CS025','ASMI','BENGALURU', 7894737377,'F');
INSERT INTO STUDENT VALUES ('1RN15CS011','AJAY','TUMKUR', 9845091341,'M');
INSERT INTO STUDENT VALUES ('1RN15CS029','CHITRA','DAVANGERE', 7696772121,'F');
INSERT INTO STUDENT VALUES ('1RN15CS045','JEEVA','BELLARY', 9944850121,'M');
INSERT INTO STUDENT VALUES ('1RN15CS091','SANTOSH','MANGALURU', 8812332201,'M');
INSERT INTO STUDENT VALUES ('1RN16CS045','ISMAIL','KALBURGI', 9900232201,'M');
INSERT INTO STUDENT VALUES ('1RN16CS088','SAMEERA','SHIMOGA', 9905542212,'F');
INSERT INTO STUDENT VALUES ('1RN16CS122','VINAYAKA','CHIKAMAGALUR', 8800880011,'M');
select * from STUDENT;
```



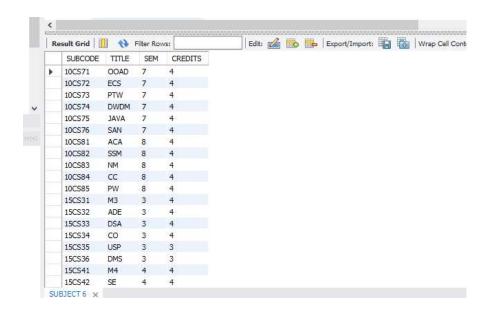
INSERT INTO SEMSEC VALUES ('CSE8A', 8,'A'); INSERT INTO SEMSEC VALUES ('CSE8B', 8,'B'); INSERT INTO SEMSEC VALUES ('CSE8C', 8, 'C'); INSERT INTO SEMSEC VALUES ('CSE7A', 7,'A'); INSERT INTO SEMSEC VALUES ('CSE7B', 7, 'B'); INSERT INTO SEMSEC VALUES ('CSE7C', 7,'C'); INSERT INTO SEMSEC VALUES ('CSE6A', 6, 'A'); INSERT INTO SEMSEC VALUES ('CSE6B', 6, 'B'); INSERT INTO SEMSEC VALUES ('CSE6C', 6, 'C'); INSERT INTO SEMSEC VALUES ('CSE5A', 5,'A'); INSERT INTO SEMSEC VALUES ('CSE5B', 5, 'B'); INSERT INTO SEMSEC VALUES ('CSE5C', 5, 'C'); INSERT INTO SEMSEC VALUES ('CSE4A', 4,'A'); INSERT INTO SEMSEC VALUES ('CSE4B', 4, 'B'); INSERT INTO SEMSEC VALUES ('CSE4C', 4,'C'); INSERT INTO SEMSEC VALUES ('CSE3A', 3,'A'); INSERT INTO SEMSEC VALUES ('CSE3B', 3,'B'); INSERT INTO SEMSEC VALUES ('CSE3C', 3,'C'); INSERT INTO SEMSEC VALUES ('CSE2A', 2,'A');

```
INSERT INTO SEMSEC VALUES ('CSE2B', 2, 'B');
INSERT INTO SEMSEC VALUES ('CSE2C', 2,'C');
INSERT INTO SEMSEC VALUES ('CSE1A', 1,'A');
INSERT INTO SEMSEC VALUES ('CSE1B', 1, 'B');
INSERT INTO SEMSEC VALUES ('CSE1C', 1,'C');
select * from SEMSEC;
           INSERT INTO SEMSEC VALUES ( CSETC , 1, C );
           select * from SEMSEC;
     85 .
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   Edit: 🚄 📆 📠 | Export/Import: 🏣 🦝 | Wrap Cell Content: 🟗
      SSID
            SEM SEC
      CSE1A
      CSE1B
            1
                 В
      CSF1C
                 C
      CSE2A 2
      CSE2B
            2
                 В
      CSE2C
            2
                 C
      CSE3A
            3
      CSE3B
      CSE3C
            3
      CSE4A
                 Α
      CSE4B
      CSE4C 4
                 C
      CSE5A
            5
      CSE5B
            5
                 В
      CSE5C
      CSE6A 6
                 A
      CSE6B
            6
      CSE6C
           6
   SEMSEC 4 ×
   Output
```

INSERT INTO CLASS VALUES ('1RN13CS020','CSE8A'); INSERT INTO CLASS VALUES ('1RN13CS062','CSE8A'); INSERT INTO CLASS VALUES ('1RN13CS066','CSE8B'); INSERT INTO CLASS VALUES ('1RN13CS091','CSE8C'); INSERT INTO CLASS VALUES ('1RN14CS010','CSE7A'); INSERT INTO CLASS VALUES ('1RN14CS025','CSE7A'); INSERT INTO CLASS VALUES ('1RN14CS032','CSE7A'); INSERT INTO CLASS VALUES ('1RN15CS011','CSE4A'); INSERT INTO CLASS VALUES ('1RN15CS029','CSE4A'); INSERT INTO CLASS VALUES ('1RN15CS045','CSE4B'); INSERT INTO CLASS VALUES ('1RN15CS091','CSE4C'); INSERT INTO CLASS VALUES ('1RN16CS045','CSE3A'); INSERT INTO CLASS VALUES ('1RN16CS045','CSE3B'); INSERT INTO CLASS VALUES ('1RN16CS088','CSE3B'); INSERT INTO CLASS VALUES ('1RN16CS088','CSE3B'); INSERT INTO CLASS VALUES ('1RN16CS122','CSE3C'); select * from CLASS;



```
INSERT INTO SUBJECT VALUES ('10CS81','ACA', 8, 4);
INSERT INTO SUBJECT VALUES ('10CS82','SSM', 8, 4);
INSERT INTO SUBJECT VALUES ('10CS83','NM', 8, 4);
INSERT INTO SUBJECT VALUES ('10CS84', 'CC', 8, 4);
INSERT INTO SUBJECT VALUES ('10CS85','PW', 8, 4);
INSERT INTO SUBJECT VALUES ('10CS71','OOAD', 7, 4);
INSERT INTO SUBJECT VALUES ('10CS72', 'ECS', 7, 4);
INSERT INTO SUBJECT VALUES ('10CS73', 'PTW', 7, 4);
INSERT INTO SUBJECT VALUES ('10CS74','DWDM', 7, 4);
INSERT INTO SUBJECT VALUES ('10CS75','JAVA', 7, 4);
INSERT INTO SUBJECT VALUES ('10CS76', 'SAN', 7, 4);
INSERT INTO SUBJECT VALUES ('15CS51', 'ME', 5, 4);
INSERT INTO SUBJECT VALUES ('15CS52', 'CN', 5, 4);
INSERT INTO SUBJECT VALUES ('15CS53', 'DBMS', 5, 4);
INSERT INTO SUBJECT VALUES ('15CS54','ATC', 5, 4);
INSERT INTO SUBJECT VALUES ('15CS55', 'JAVA', 5, 3);
INSERT INTO SUBJECT VALUES ('15CS56', 'AI', 5, 3);
INSERT INTO SUBJECT VALUES ('15CS41', 'M4', 4, 4);
INSERT INTO SUBJECT VALUES ('15CS42','SE', 4, 4);
INSERT INTO SUBJECT VALUES ('15CS43', 'DAA', 4, 4);
INSERT INTO SUBJECT VALUES ('15CS44', 'MPMC', 4, 4);
INSERT INTO SUBJECT VALUES ('15CS45','OOC', 4, 3);
INSERT INTO SUBJECT VALUES ('15CS46','DC', 4, 3);
INSERT INTO SUBJECT VALUES ('15CS31', 'M3', 3, 4);
INSERT INTO SUBJECT VALUES ('15CS32','ADE', 3, 4);
INSERT INTO SUBJECT VALUES ('15CS33','DSA', 3, 4);
INSERT INTO SUBJECT VALUES ('15CS34','CO', 3, 4);
INSERT INTO SUBJECT VALUES ('15CS35','USP', 3, 3);
INSERT INTO SUBJECT VALUES ('15CS36','DMS', 3, 3);
SELECT * FROM SUBJECT;
```



INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES ('1RN13CS091','10CS81','CSE8C', 15, 16, 18);

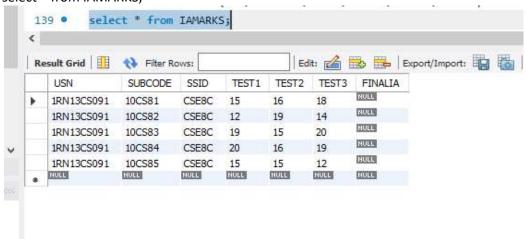
INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES ('1RN13CS091','10CS82','CSE8C', 12, 19, 14);

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);

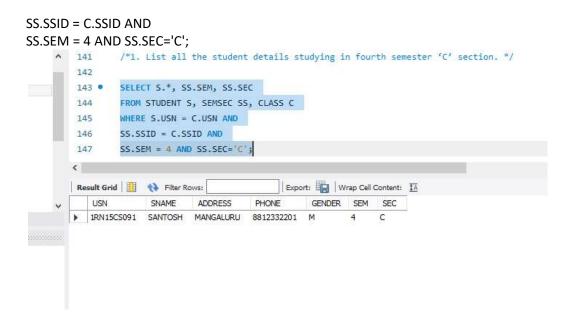
INSERT INTO IAMARKS (USN, SUBCODE, SSID, TEST1, TEST2, TEST3) VALUES ('1RN13CS091','10CS85','CSE8C', 15, 15, 12);

select * from IAMARKS;



/*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



/*2. 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

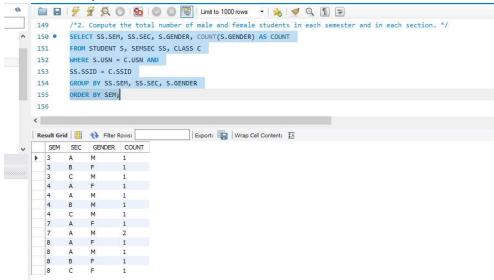
FROM STUDENT S, SEMSEC SS, CLASS C

WHERE S.USN = C.USN AND

SS.SSID = C.SSID

GROUP BY SS.SEM, SS.SEC, S.GENDER

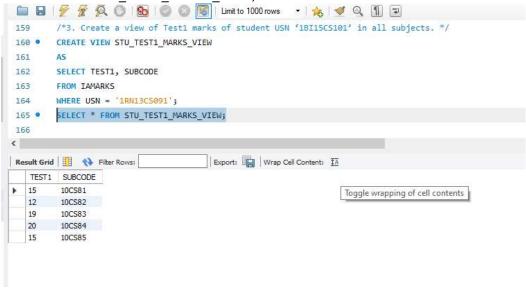
ORDER BY SEM;



/*3. Create a view of Test1 marks of 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;



/*5. Categorize students based on the following criterion:

If FinalIA = 17 to 20 then CAT = 'Outstanding'

If FinalIA = 12 to 16 then CAT = 'Average'

If FinalIA< 12 then CAT = 'Weak'

Give these details only for 8th semester A, B, and C section 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;

