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

**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;**

**CREATE TABLE SEMSEC ( SSID VARCHAR (5) PRIMARY KEY, SEM NUMBER (2), SEC CHAR (1));**

**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;**

**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));**

**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 ('1RN16CS088','CSE3B');**

**INSERT INTO CLASS VALUES ('1RN16CS122','CSE3C');**

**select \* from class;**

**CREATE TABLE SUBJECT ( SUBCODE VARCHAR (8), TITLE VARCHAR (20), SEM NUMBER (2), CREDITS NUMBER (2), PRIMARY KEY (SUBCODE));**

**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;**

**CREATE TABLE IAMARKS ( USN VARCHAR (10), SUBCODE VARCHAR (8), SSID VARCHAR (5), TEST1 NUMBER (2), TEST2 NUMBER (2), TEST3 NUMBER (2), FINALIA NUMBER (2), 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 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;**

**/\*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**

**WHERES.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 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 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;**