|  |
| --- |
| CREATE DATABASE COLLEGE; |
|  | USE COLLEGE; |
|  |  |
|  | CREATE TABLE STUDENT(USN INT,S\_NAME VARCHAR(10),ADDRESS VARCHAR(20),PHONE INT,GENDER VARCHAR(10),PRIMARY KEY(USN)); |
|  |  |
|  | CREATE TABLE SEM\_SEC(SSID INT,SEM INT,SEC VARCHAR(5),PRIMARY KEY(SSID)); |
|  |  |
|  | CREATE TABLE CLASS(USN INT,SSID INT,FOREIGN KEY(USN) REFERENCES STUDENT(USN),FOREIGN KEY(SSID) REFERENCES SEM\_SEC(SSID)); |
|  |  |
|  | CREATE TABLE SUBJECTS(SUBCODE INT,TITLE VARCHAR(20),SEM INT,CREDITS INT,PRIMARY KEY(SUBCODE)); |
|  |  |
|  | CREATE TABLE MARKS(USN INT,SUBCODE INT,SSID INT,TEST1 INT,TEST2 INT,TEST3 INT,FOREIGN KEY(USN) REFERENCES STUDENT(USN),FOREIGN KEY(SSID) REFERENCES SEM\_SEC(SSID),FOREIGN KEY(SUBCODE) REFERENCES SUBJECTS(SUBCODE)); |
|  |  |
|  | INSERT INTO STUDENT VALUES(11,'SAM','INDIRANAGAR',231432,'FEMALE'); |
|  | INSERT INTO STUDENT VALUES(22,'AYMAN','INDIRANAGAR',231232,'MALE'); |
|  | INSERT INTO STUDENT VALUES(33,'TANYA','WHITE FIELD',231443,'FEMALE'); |
|  | INSERT INTO STUDENT VALUES(44,'DISHA','RR NAGAR',231213,'FEMALE'); |
|  | INSERT INTO STUDENT VALUES(55,'SHAAN','MG ROAD',212543,'MALE'); |
|  | SELECT \* FROM STUDENT; |
|  |  |
|  | INSERT INTO SEM\_SEC VALUES(1,2,'B'); |
|  | INSERT INTO SEM\_SEC VALUES(2,6,'B'); |
|  | INSERT INTO SEM\_SEC VALUES(3,4,'A'); |
|  | INSERT INTO SEM\_SEC VALUES(4,4,'C'); |
|  | INSERT INTO SEM\_SEC VALUES(5,4,'B'); |
|  | SELECT \* FROM SEM\_SEC; |
|  |  |
|  | INSERT INTO CLASS VALUES(11,4); |
|  | INSERT INTO CLASS VALUES(33,5); |
|  | INSERT INTO CLASS VALUES(44,4); |
|  | INSERT INTO CLASS VALUES(55,2); |
|  | INSERT INTO CLASS VALUES(22,4); |
|  | SELECT \* FROM CLASS; |
|  |  |
|  | INSERT INTO SUBJECTS VALUES(10,'MP',4,4); |
|  | INSERT INTO SUBJECTS VALUES(20,'DBMS',2,4); |
|  | INSERT INTO SUBJECTS VALUES(30,'LD',5,3); |
|  | INSERT INTO SUBJECTS VALUES(40,'ADA',1,4); |
|  | INSERT INTO SUBJECTS VALUES(50,'COA',3,3); |
|  | SELECT \* FROM SUBJECTS; |
|  |  |
|  | INSERT INTO MARKS VALUES(44,10,4,10,12,11); |
|  | INSERT INTO MARKS VALUES(22,50,4,16,15,12); |
|  | INSERT INTO MARKS VALUES(33,10,5,19,19,20); |
|  | INSERT INTO MARKS VALUES(11,20,4,15,14,13); |
|  | INSERT INTO MARKS VALUES(55,30,2,19,19,19); |
|  | INSERT INTO MARKS VALUES(22,40,4,12,18,16); |
|  | SELECT \* FROM MARKS; |
|  |  |
|  | SELECT \* FROM STUDENT S WHERE S.USN IN (SELECT C.USN FROM CLASS C,SEM\_SEC S WHERE S.SSID=C.SSID AND S.SEM=4 AND S.SEC='C'); |
|  |  |
|  | /\*TOTAL STUDENTS\*/ |
|  | SELECT SS.SEM,SS.SEC,COUNT(\*) AS TOTAL\_STUDENT FROM SEM\_SEC SS,CLASS C WHERE C.SSID=SS.SSID GROUP BY SS.SSID; |
|  |  |
|  | /\*TOTAL FEMALE STUDENT IN EACH CLASS\*/ |
|  | SELECT SEM,SEC,COUNT(GENDER) AS FEMALE FROM (STUDENT NATURAL JOIN CLASS) RIGHT OUTER JOIN SEM\_SEC ON CLASS.SSID=SEM\_SEC.SSID WHERE GENDER="FEMALE" GROUP BY (SEM\_SEC.SSID); |
|  |  |
|  | /\*TOTAL MALE STUDENT IN EACH CLASS\*/ |
|  | SELECT SEM,SEC,COUNT(GENDER) AS MALE FROM (STUDENT NATURAL JOIN CLASS) RIGHT OUTER JOIN SEM\_SEC ON CLASS.SSID=SEM\_SEC.SSID WHERE GENDER="MALE" GROUP BY (SEM\_SEC.SSID); |
|  |  |
|  | CREATE VIEW USN\_22(USN,SUB,MARKS) AS SELECT M.USN,S.TITLE,M.TEST1 FROM MARKS M,SUBJECTS S WHERE M.SUBCODE=S.SUBCODE AND M.USN=22; |
|  | SELECT \* FROM USN\_22; |
|  |  |
|  | ALTER TABLE MARKS ADD COLUMN FINAL\_ALL FLOAT; |
|  | UPDATE MARKS SET FINAL\_ALL=((TEST1+TEST2+TEST3)-LEAST(TEST1,TEST2,TEST3))/2; |
|  | SELECT \* FROM MARKS; |
|  |  |
|  | ALTER TABLE MARKS ADD COLUMN CATEGORY VARCHAR(20); |
|  | UPDATE MARKS SET CATEGORY= |
|  | CASE |
|  | WHEN FINAL\_ALL>=17 AND FINAL\_ALL<=20 THEN 'OUSTANDING' |
|  | WHEN FINAL\_ALL>=12 AND FINAL\_ALL<17 THEN 'AVERAGE' |
|  | WHEN FINAL\_ALL<12 THEN 'WEAK' |
|  | END; |
|  | SELECT \* FROM MARKS; |