PROGRAM 4

List all the student details studying in fourth semester \_C' section.

SELECT \*

FROM STUDENT

WHERE USN IN (SELECT USN FROM CLASS WHERE SSID IN (SELECT SSID FROM SEMSEC WHERE Sem = 4 AND Sec = 'C'));

Compute the total number of male and female students in each semester and in each section.

SELECT Sem, Sec, Gender, COUNT(\*) as StudentCount

FROM STUDENT

JOIN CLASS ON STUDENT.USN = CLASS.USN

JOIN SEMSEC ON CLASS.SSID = SEMSEC.SSID

GROUP BY Sem, Sec, Gender;

Create a view of Test1 marks of student USN '1BI15CS101' in all subjects:

**CREATE VIEW Test1View AS** 

SELECT Subcode, Test1

FROM IAMARKS

WHERE USN = '1KT20CS101';

Calculate the FinalIA (average of the best two test marks) and update the corresponding table for all students:

**UPDATE IAMARKS** 

SET FinalIA = (Test1 + Test2 + Test3 - LEAST(Test1, Test2, Test3)) / 2;

Categorize students based on the FinalIA and provide details only for 8th semester A, B, and C section students:

SELECT USN, Sem, Sec,

CASE

WHEN FinalIA BETWEEN 17 AND 20 THEN 'Outstanding'

WHEN FinalIA BETWEEN 12 AND 16 THEN 'Average'

## WHEN FinalIA < 12 THEN 'Weak'

END AS CAT

FROM IAMARKS

JOIN CLASS ON IAMARKS.USN = CLASS.USN

JOIN SEMSEC ON CLASS.SSID = SEMSEC.SSID

WHERE Sem = 8 AND Sec IN ('A', 'B', 'C');