**EXPERIMENT : 7**

CREATE TABLE STUDENT\_60\_STEPHIN ( roll\_no INT PRIMARY KEY, name VARCHAR(50), physics INT,

chemistry INT, mathematics INT );

table STUDENT\_60\_STEPHIN created.

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (1, 'Adam', 20, 20, 33);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (2, 'Bob', 18, 9, 41);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (3, 'Bright', 22, 7, 31);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (4, 'Duke', 13, 21, 20);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (5, 'Elvin', 14, 22, 23);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (6, 'Fletcher', 2, 10, 48);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (7, 'Georgina', 22, 12, 22);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (8, 'Mary', 24, 14, 31);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

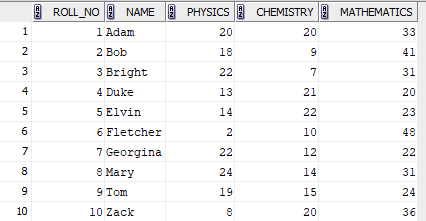
VALUES (9, 'Tom', 19,15,24);

INSERT INTO STUDENT\_60\_STEPHIN (roll\_no, name, physics, chemistry, mathematics)

VALUES (10, 'Zack', 8, 20, 36);

10 rows inserted

SELECT \* FROM STUDENT\_60\_STEPHIN;



QUESTIONS

1. SELECT AVG(physics) AS class\_average\_physics FROM STUDENT\_60\_STEPHIN;



1. SELECT MAX(mathematics) AS highest\_marks\_maths FROM STUDENT\_60\_STEPHIN;



1. SELECT MIN(chemistry) AS lowest\_mark\_chemistry FROM STUDENT\_60\_STEPHIN;



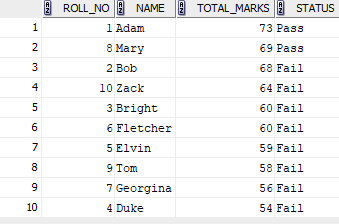
1. SELECT COUNT(\*) AS pass\_in\_physics FROM STUDENT\_60\_STEPHIN WHERE physics >= 12;



1. SELECT roll\_no, name FROM STUDENT\_60\_STEPHIN WHERE physics >= 12 AND chemistry >= 12 AND mathematics >= 25;



1. SELECT roll\_no, name, (physics + chemistry + mathematics) AS total\_marks, CASE WHEN physics >= 12 AND chemistry >= 12 AND mathematics >= 25 THEN 'Pass' ELSE 'Fail' END AS status FROM STUDENT\_60\_STEPHIN ORDER BY total\_marks DESC;



1. SELECT (COUNT(CASE WHEN mathematics>=25 THEN 1 END)\*100.00/COUNT(\*))AS PASS\_PERCENTAGE\_MATHS FROM STUDENT\_60\_STEPHIN;



1. SELECT (COUNT(CASE WHEN physics >= 12 AND chemistry >= 12 AND mathematics >= 25 THEN 1 END) \* 100.00 / COUNT(\*)) AS overall\_pass\_percentage FROM STUDENT\_60\_STEPHIN;



1. SELECT AVG(physics + chemistry + mathematics) AS class\_average FROM STUDENT\_60\_STEPHIN;



1. SELECT COUNT(\*) AS total\_pass FROM STUDENT\_60\_STEPHIN WHERE physics >= 12 AND chemistry >= 12 AND mathematics >= 25;

