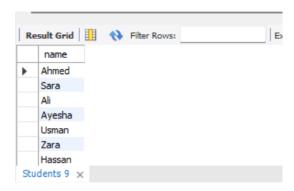
1. Write a query to get the names of all students.

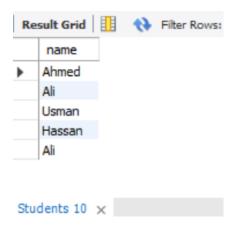
SELECT name FROM Students;



2.Get the names of all male students.

SELECT name FROM Students

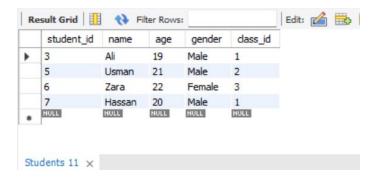
WHERE gender = 'Male';



3. Find all students older than 18 years.

SELECT * FROM Students

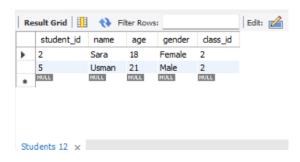
WHERE age > 18;



4.Get details of students who are in class_id = 2.

SELECT * FROM Students

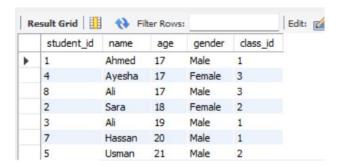
WHERE class_id = 2;



5.List all students ordered by age, youngest first.

SELECT * FROM Students

ORDER BY age ASC;



6. Show top 5 students with the highest marks in "Math".

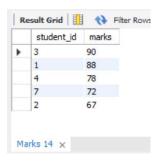
SELECT student_id, marks

FROM Marks

WHERE subject = 'Math'

ORDER BY marks DESC

LIMIT 5;



7.List student names along with their class names.

SELECT S.name AS student_name, C.class_name

FROM Students S

JOIN Classes C ON S.class_id = C.class_id;



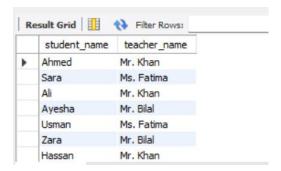
8. Show student names with their teacher's name for each class.

SELECT S.name AS student_name, T.name AS teacher_name

FROM Students S

JOIN Classes C ON S.class_id = C.class_id

JOIN Teachers T ON C.teacher_id = T.teacher_id;

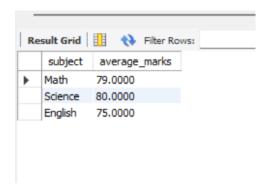


9. Find the average marks for each subject.

SELECT subject, AVG(marks) AS average_marks

FROM Marks

GROUP BY subject;

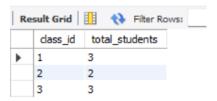


10. Count how many students are in each class.

SELECT class_id, COUNT(*) AS total_students

FROM Students

GROUP BY class_id;

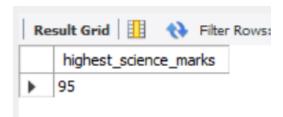


11. Find the highest marks scored in "Science".

SELECT MAX(marks) AS highest_science_marks

FROM Marks

WHERE subject = 'Science';



12.List names of students who scored more than the average marks.

SELECT S.name, M.marks

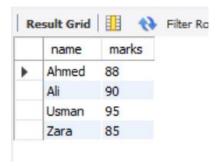
FROM Marks M

JOIN Students S ON M.student_id = S.student_id

WHERE M.marks > (

SELECT AVG(marks) FROM Marks

);



13. Find the class name where the oldest student studies.

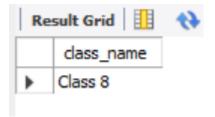
SELECT C.class_name

FROM Students S

JOIN Classes C ON S.class_id = C.class_id

ORDER BY S.age DESC

LIMIT 1;



14. Write a query to insert a new student named "Ali", age 17, male, in class 3.

INSERT INTO Students (student_id, name, age, gender, class_id)

VALUES (8, 'Ali', 17, 'Male', 3);

15. Update the subject of teacher with teacher_id = 1 to "Computer Science".

UPDATE Teachers

SET subject = 'Computer Science'

WHERE teacher_id = 1;

16.Delete all students who have age > 25.

17.Get names of students who have not received marks in "English".

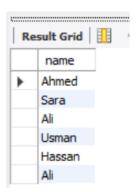
SELECT name FROM Students

WHERE student_id NOT IN (

SELECT student_id FROM Marks

WHERE subject = 'English'

);



18. Display each class name with the total number of male and female students.

SELECT C.class_name,

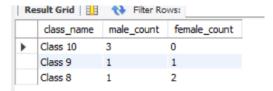
SUM(CASE WHEN S.gender = 'Male' THEN 1 ELSE 0 END) AS male_count,

SUM(CASE WHEN S.gender = 'Female' THEN 1 ELSE 0 END) AS female_count

FROM Students S

JOIN Classes C ON S.class id = C.class id

GROUP BY C.class_name;



19.Get a list of students with total marks across all subjects, ordered from highest to lowest.

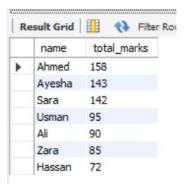
SELECT S.name, SUM(M.marks) AS total_marks

FROM Students S

JOIN Marks M ON S.student_id = M.student_id

GROUP BY S.name

ORDER BY total_marks DESC;



20. Create a temp table and store Query #8 in it

CREATE TEMPORARY TABLE StudentTeacherInfo AS

SELECT S.name AS student_name, T.name AS teacher_name

FROM Students S

JOIN Classes C ON S.class_id = C.class_id

JOIN Teachers T ON C.teacher_id = T.teacher_id;