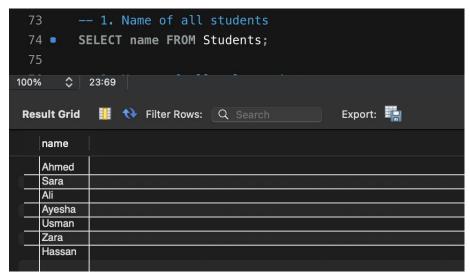
♦♦ Student Management System-Documentation

1. Get names of all students

Description: Fetches all student names from the Students table.

Screenshot below:

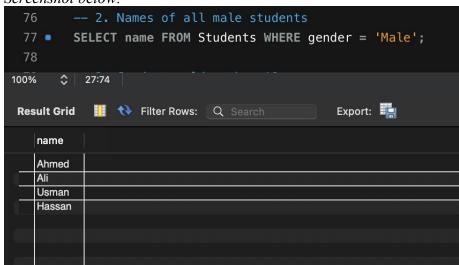


Working: Selects and displays only the name column from the Students table.

4 2. Get names of all male students

Description: Filters and shows names of students whose gender is 'Male'.

Screenshot below:

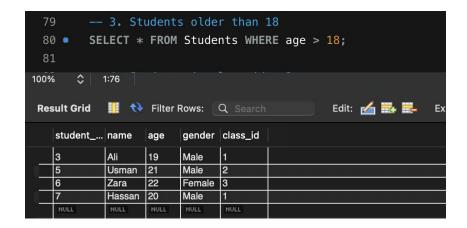


Working: Filters records where gender = 'Male' and returns their names.

♦♦ 3. Find all students older than 18 years

Description: Displays student details where age is greater than 18.

Screenshot below:

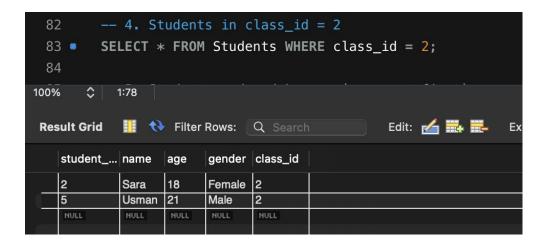


Working: Returns full student details where age is more than 18.

•• 4. Get details of students in class_id = 2

Description: Lists all fields for students assigned to class ID 2.

Screenshot below:

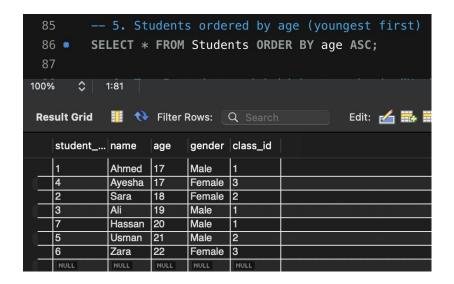


Working: Shows all student data where the class id is 2.

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

Description: Sorts students by age in ascending order.

Screenshot below:

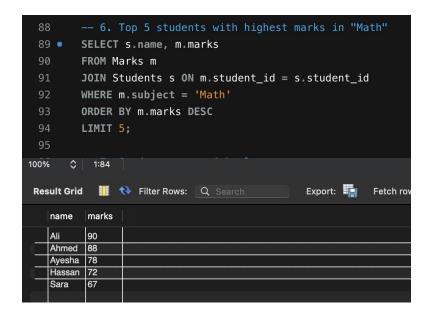


Working: Selects and displays only the name column from the Students table.

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

Description: Returns student names and marks who scored highest in Math.

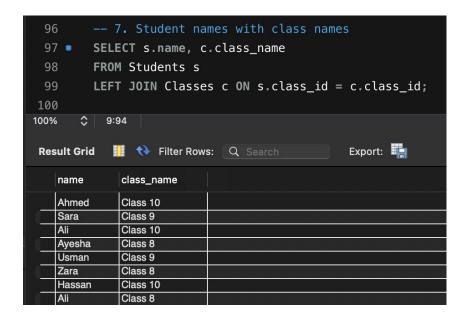
Screenshot below:



•• 7. List student names along with their class names

Description: Joins Students and Classes to show student names and their class.

Screenshot below:

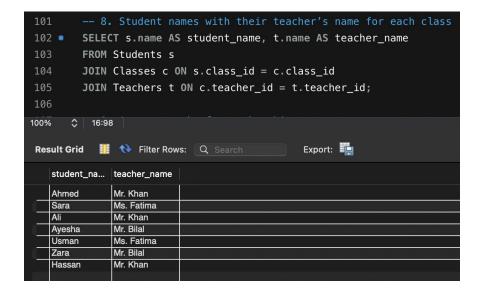


Working: Selects and displays only the name column from the Students table.

♦ 8. Show student names with their teacher's name

Description: Joins Students, Classes, and Teachers to show student and assigned teacher.

Screenshot below:

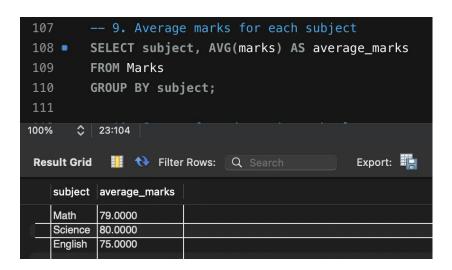


Working: Selects and displays only the name column from the Students table.

♦ 9. Find the average marks for each subject

Description: Groups data by subject and calculates average marks.

Screenshot below:

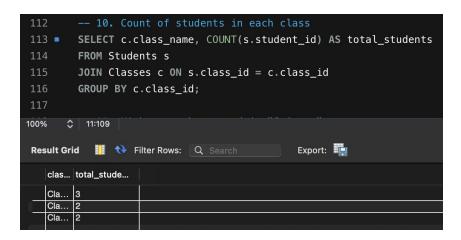


Working: Selects and displays only the name column from the Students table.

•• 10. Count how many students are in each class

Description: Groups students by class and returns count.

Screenshot below:



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

Description: Fetches the maximum marks from subject 'Science'.

Screenshot below:

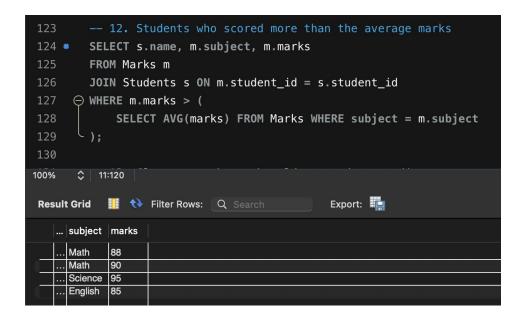
```
-- 11. Highest marks scored in "Science"
118
119 •
         SELECT MAX(marks) AS highest_science_marks
120
        FROM Marks
121
        WHERE subject = 'Science';
122
100%
       29:115
                                                Export:
Result Grid
              Filter Rows:
                             Q Search
   highest_science_ma...
   95
```

Working: Selects and displays only the name column from the Students table.

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

Description: Uses a subquery to compare marks above average per subject.

Screenshot below:



\$\psi\$ 13. Find the class name where the oldest student studies

Description: Orders students by age descending and picks the top class name.

Screenshot below:

```
131 -- 13. Class name where the oldest student studies

132 • SELECT c.class_name

133 FROM Students s

134 JOIN Classes c ON s.class_id = c.class_id

135 ORDER BY s.age DESC

136 LIMIT 1;

137

100% $\frac{9:136}{}$

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Class 8

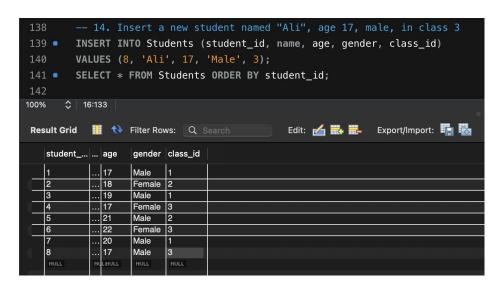
Class_name:
```

Working: Selects and displays only the name column from the Students table.

\$\displaystyle{\psi}\$ 14. Insert a new student named "Ali", age 17, male, in class 3

Description: Adds a new record to Students.

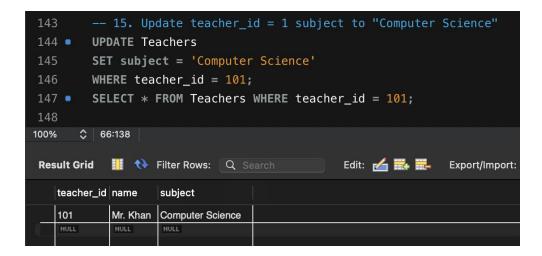
Screenshot below:



♦ 15. Update the subject of teacher with teacher_id = 101

Description: Modifies the subject of a teacher to "Computer Science".

Screenshot below:

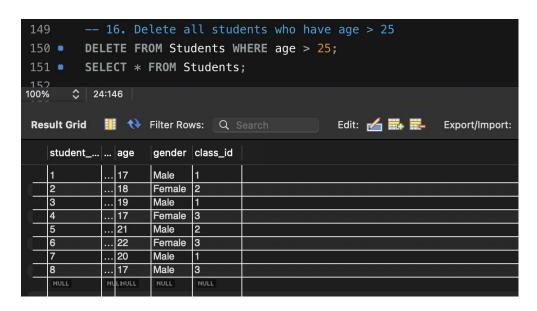


Working: Selects and displays only the name column from the Students table.

♦ 16. Delete all students who have age > 25

Description: Deletes student records where age exceeds 25.

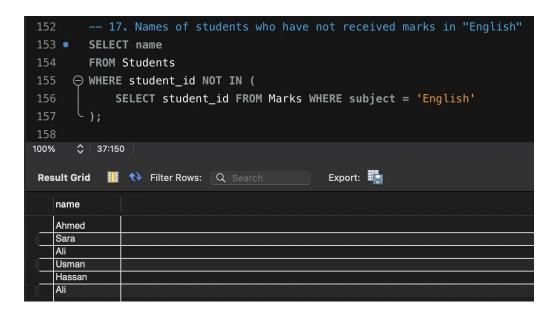
Screenshot below:



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

Description: Finds students who aren't in the English subject marks table.

Screenshot below:

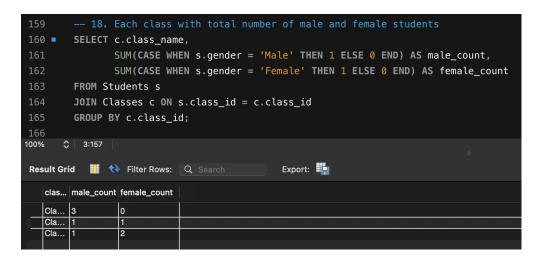


Working: Selects and displays only the name column from the Students table.

♦♦ 18. Display class name with male and female student count

Description: Uses CASE WHEN with GROUP BY for gender-wise counts per class.

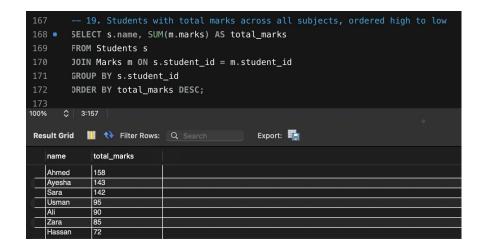
Screenshot below:



19. Get total marks for each student ordered from high to low

Description: Sums marks for each student and orders them descending.

Screenshot below:



Working: Selects and displays only the name column from the Students table.

20. Create a temporary table with student-teacher pairs

Description: Stores the output of Query #8 in a temporary table.

Screenshot below:

