

SQL LEETCODE PROBLEMS

QUESTION 11

**Find the Quiet Student in all
Exams**

-- Mayuri D.

Data--


Write an SQL query to report the students (id, name) being 'quiet' in all exams.

A 'quiet' student is the one who took at least one exam and didn't score neither the high score nor the low score in any of the exam.

Dont return the student who has never taken any exam.


Return the result table ordered by student_id

17 • `SELECT * FROM students;`

Result Grid |  Filter Rows:

	student_id	student_name
▶	1	Daniel
	2	Jade
	3	Stella
	4	Jonathan
	5	Will

18 • `SELECT * FROM exams;`

Result Grid |  Filter Rows:

	exam_id	student_id	score
▶	10	1	70
	10	2	80
	10	3	90
	20	1	80
	30	1	70
	30	3	80
	30	4	90
	40	1	60
	40	2	70
	40	4	80

Get min & max scores of students in all exams

```
20 • WITH all_scores AS
21 (
22     SELECT exam_id, MIN(score) AS min_score, MAX(score) AS max_score
23     FROM exams
24     GROUP BY exam_id
25 )
26 SELECT exams.*, min_score, max_score
27 FROM exams
28 INNER JOIN all_scores ON exams.exam_id = all_scores.exam_id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [A](#)

	exam_id	student_id	score	min_score	max_score
▶	10	1	70	70	90
	10	2	80	70	90
	10	3	90	70	90
	20	1	80	80	80
	30	1	70	70	90
	30	3	80	70	90
	30	4	90	70	90
	40	1	60	60	80
	40	2	70	60	80
	40	4	80	60	80

Final script 1

```
20 • WITH all_scores AS
21 (
22     SELECT exam_id, MIN(score) AS min_score, MAX(score) AS max_score
23     FROM exams
24     GROUP BY exam_id
25 )
26 SELECT exams.student_id ,
27 MAX(CASE WHEN score = min_score OR
28     score = max_score THEN 1 ELSE 0 END) AS red_flag
29 FROM exams
30 INNER JOIN all_scores ON exams.exam_id = all_scores.exam_id
31 GROUP BY student_id
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: [IA](#)

	student_id	red_flag
▶	1	1
	2	0
	3	1
	4	1

Final script 2

```
20 • WITH all_scores AS
21 (
22     SELECT exam_id, MIN(score) AS min_score, MAX(score) AS max_score
23     FROM exams
24     GROUP BY exam_id
25 )
26 SELECT exams.student_id
27 FROM exams
28 INNER JOIN all_scores ON exams.exam_id = all_scores.exam_id
29 GROUP BY student_id
30 HAVING MAX(CASE WHEN score = min_score OR
31             score = max_score THEN 1 ELSE 0 END) = 0
32 ;
```

Result Grid |  Filter Rows: | Export:  | Wrap Cell Content: 

	student_id
▶	2

THANK YOU

-- Mayuri D.