

Problem 1412: Find the Quiet Students in All Exams

Problem Information

Difficulty: **Hard**

Acceptance Rate: 58.16%

Paid Only: Yes

Tags: Database

Problem Description

Table: `Student`

+-----+-----+ | Column Name | Type | +-----+-----+ | student_id |
int | | student_name | varchar | +-----+-----+ student_id is the primary key
(column with unique values) for this table. student_name is the name of the student.

Table: `Exam`

+-----+-----+ | Column Name | Type | +-----+-----+ | exam_id | int | |
student_id | int | | score | int | +-----+-----+ (exam_id, student_id) is the primary key
(combination of columns with unique values) for this table. Each row of this table indicates
that the student with student_id had a score points in the exam with id exam_id.

A **quiet student** is the one who took at least one exam and did not score the highest or the lowest score.

Write a solution to report the students `(student_id, student_name)` being quiet in all exams.
Do not return the student who has never taken any exam.

Return the result table **ordered** by `student_id`.

The result format is in the following example.

Example 1:

```

**Input:** Student table: +-----+-----+ | student_id | student_name |
+-----+-----+ | 1 | Daniel | | 2 | Jade | | 3 | Stella | | 4 | Jonathan | | 5 | Will |
+-----+-----+ Exam table: +-----+-----+-----+ | 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 |
+-----+-----+-----+ **Output:** +-----+-----+ | student_id |
student_name | +-----+-----+ | 2 | Jade | +-----+-----+
**Explanation:** For exam 1: Student 1 and 3 hold the lowest and high scores respectively.
For exam 2: Student 1 hold both highest and lowest score. For exam 3 and 4: Student 1 and 4
hold the lowest and high scores respectively. Student 2 and 5 have never got the highest or
lowest in any of the exams. Since student 5 is not taking any exam, he is excluded from the
result. So, we only return the information of Student 2.

```

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```