

# Problem 1412: Find the Quiet Students in All Exams

## Problem Information

Difficulty: **Hard**

Acceptance Rate: 0.00%

Paid Only: No

## 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
```

### Oracle:

```
/* Write your PL/SQL query statement below */
```

### Pandas:

```
import pandas as pd

def find_quiet_students(student: pd.DataFrame, exam: pd.DataFrame) ->
pd.DataFrame:
```

## Solutions

### MySQL Solution:

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