

Problem 2989: Class Performance

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Scores

```
+-----+-----+ | Column Name | Type | +-----+-----+ | student_id | int | |
student_name | varchar | | assignment1 | int | | assignment2 | int | | assignment3 | int |
+-----+-----+ student_id is column of unique values for this table. This table contains
student_id, student_name, assignment1, assignment2, and assignment3.
```

Write a solution to calculate the

difference

in the

total score

(sum of all

3

assignments) between the

highest score

obtained by students and the

lowest score

obtained by them.

Return

the result table in

any

order

.

The result format is in the following example.

Example 1:

Input:

Scores table: +-----+-----+-----+-----+-----+ | student_id |
student_name | assignment1 | assignment2 | assignment3 |
+-----+-----+-----+-----+-----+ | 309 | Owen | 88 | 47 | 87 | | 321 |
Claire | 98 | 95 | 37 | | 338 | Julian | 100 | 64 | 43 | | 423 | Peyton | 60 | 44 | 47 | | 896 | David |
32 | 37 | 50 | | 235 | Camila | 31 | 53 | 69 |
+-----+-----+-----+-----+-----+

Output

+-----+ | difference_in_score | +-----+ | 111 | +-----+

Explanation

- student_id 309 has a total score of $88 + 47 + 87 = 222$. - student_id 321 has a total score of $98 + 95 + 37 = 230$. - student_id 338 has a total score of $100 + 64 + 43 = 207$. - student_id 423 has a total score of $60 + 44 + 47 = 151$. - student_id 896 has a total score of $32 + 37 + 50 = 119$. - student_id 235 has a total score of $31 + 53 + 69 = 153$. student_id 321 has the highest score of 230, while student_id 896 has the lowest score of 119. Therefore, the difference between them is 111.

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 class_performance(scores: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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