Problem 2989: Class Performance

Problem Information

Difficulty: Medium
Acceptance Rate: 88.75%
Paid Only: Yes
Tags: Database

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
```