

Problem 1699: Number of Calls Between Two Persons

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Calls

```
+-----+-----+ | Column Name | Type | +-----+-----+ | from_id | int | | to_id | int |
| duration | int | +-----+-----+ This table does not have a primary key (column with
unique values), it may contain duplicates. This table contains the duration of a phone call
between from_id and to_id. from_id != to_id
```

Write a solution to report the number of calls and the total call duration between each pair of distinct persons

(person1, person2)

where

person1 < person2

.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

```
Calls table: +-----+-----+-----+ | from_id | to_id | duration | +-----+-----+-----+ | 1 |
2 | 59 | | 2 | 1 | 11 | | 1 | 3 | 20 | | 3 | 4 | 100 | | 3 | 4 | 200 | | 3 | 4 | 200 | | 4 | 3 | 499 |
+-----+-----+-----+
```

Output:

```
+-----+-----+-----+-----+ | person1 | person2 | call_count | total_duration |
+-----+-----+-----+-----+ | 1 | 2 | 2 | 70 | | 1 | 3 | 1 | 20 | | 3 | 4 | 4 | 999 |
+-----+-----+-----+-----+
```

Explanation:

Users 1 and 2 had 2 calls and the total duration is 70 (59 + 11). Users 1 and 3 had 1 call and the total duration is 20. Users 3 and 4 had 4 calls and the total duration is 999 (100 + 200 + 200 + 499).

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 number_of_calls(calls: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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