

Problem 3124: Find Longest Calls

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Contacts

+-----+-----+ | Column Name | Type | +-----+-----+ | id | int | | first_name |
varchar | | last_name | varchar | +-----+-----+ id is the primary key (column with
unique values) of this table. id is a foreign key (reference column) to

Calls

table. Each row of this table contains id, first_name, and last_name.

Table:

Calls

+-----+-----+ | Column Name | Type | +-----+-----+ | contact_id | int | | type | enum |
| duration | int | +-----+-----+ (contact_id, type, duration) is the primary key (column with
unique values) of this table. type is an ENUM (category) type of ('incoming', 'outgoing'). Each
row of this table contains information about calls, comprising of contact_id, type, and duration
in seconds.

Write a solution to find the

three longest

incoming

and

outgoing

calls.

Return t

he result table ordered by

type

,

duration

, and

first_name

in

descending

order and

duration

must be formatted as

HH:MM:SS

.

The result format is in the following example.

Example 1:

Input:

Contacts table:

	id	first_name	last_name				
Doe	1	John		1			
	2	Jane	Smith	2	Alice	Johnson	3
	3			4	Michael	Brown	4
	4			5	Emily	Davis	5

Calls table:

	contact_id	type	duration				
incoming	120	1	outgoing	180	2	incoming	300
						outgoing	240
						3	incoming
						150	3
						outgoing	360
						4	incoming
						420	4
						outgoing	200
						5	incoming
						180	5
						outgoing	280

Output:

	first_name	type	duration_formatted				
Alice		outgoing	00:06:00	Emily		outgoing	00:04:40
Jane		outgoing	00:04:00	Michael		incoming	00:07:00
				Jane		incoming	00:05:00
				Emily		incoming	00:03:00

Explanation:

Alice had an outgoing call lasting 6 minutes.

Emily had an outgoing call lasting 4 minutes and 40 seconds.

Jane had an outgoing call lasting 4 minutes.

Michael had an incoming call lasting 7 minutes.

Jane had an incoming call lasting 5 minutes.

Emily had an incoming call lasting 3 minutes.

Note:

Output table is sorted by type, duration, and first_name in descending order.

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_longest_calls(contacts: pd.DataFrame, calls: pd.DataFrame) ->
    pd.DataFrame:
```

Solutions

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