

Problem 1939: Users That Actively Request Confirmation Messages

Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Signups

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int | |
time_stamp | datetime | +-----+-----+ user_id is the column with unique values for
this table. Each row contains information about the signup time for the user with ID user_id.

Table:

Confirmations

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int | |
time_stamp | datetime | | action | ENUM | +-----+-----+ (user_id, time_stamp) is the
primary key (combination of columns with unique values) for this table. user_id is a foreign
key (reference column) to the Signups table. action is an ENUM (category) of the type
('confirmed', 'timeout') Each row of this table indicates that the user with ID user_id requested
a confirmation message at time_stamp and that confirmation message was either confirmed
('confirmed') or expired without confirming ('timeout').

Write a solution to find the IDs of the users that requested a confirmation message

twice

within a 24-hour window. Two messages exactly 24 hours apart are considered to be within
the window. The

action

does not affect the answer, only the request time.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

```
Signups table: +-----+-----+ | user_id | time_stamp | +-----+-----+ |
3 | 2020-03-21 10:16:13 | | 7 | 2020-01-04 13:57:59 | | 2 | 2020-07-29 23:09:44 | | 6 |
2020-12-09 10:39:37 | +-----+-----+ Confirmations table:
+-----+-----+-----+ | user_id | time_stamp | action |
+-----+-----+-----+ | 3 | 2021-01-06 03:30:46 | timeout | | 3 | 2021-01-06
03:37:45 | timeout | | 7 | 2021-06-12 11:57:29 | confirmed | | 7 | 2021-06-13 11:57:30 |
confirmed | | 2 | 2021-01-22 00:00:00 | confirmed | | 2 | 2021-01-23 00:00:00 | timeout | | 6 |
2021-10-23 14:14:14 | confirmed | | 6 | 2021-10-24 14:14:13 | timeout |
+-----+-----+-----+
```

Output:

```
+-----+ | user_id | +-----+ | 2 | | 3 | | 6 | +-----+
```

Explanation:

User 2 requested two messages within exactly 24 hours of each other, so we include them. User 3 requested two messages within 6 minutes and 59 seconds of each other, so we include them. User 6 requested two messages within 23 hours, 59 minutes, and 59 seconds of each other, so we include them. User 7 requested two messages within 24 hours and 1 second of each other, so we exclude them from the answer.

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_requesting_users(signups: pd.DataFrame, confirmations: pd.DataFrame)
-> pd.DataFrame:
```

Solutions

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