Problem 1939: Users That Actively Request Confirmation Messages

Problem Information

Difficulty: Easy
Acceptance Rate: 56.72%
Paid Only: Yes
Tags: Database

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
```