Problem 2995: Viewers Turned Streamers

Problem Information

Difficulty: Hard
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Sessions

+---------------+----------+ | Column Name | Type | +---------------+----------+ | user_id | int | | session_start | datetime | | session_end | datetime | | session_id | int | | session_type | enum | +---------------+----------+ session_id is column of unique values for this table. session_type is an ENUM (category) type of (Viewer, Streamer). This table contains user id, session start, session end, session id and session type.

Write a solution to find the number of

streaming

sessions for users whose

first session

was as a

viewer

.

Return

the result table ordered by count of streaming sessions,

user_id

in

descending

order.

The result format is in the following example.

Example 1:

Input:

Sessions table: +---------+---------------------+---------------------+------------+--------------+ | user_id | session_start | session_end | session_id | session_type | +---------+---------------------+---------------------+------------+--------------+ | 101 | 2023-11-06 13:53:42 | 2023-11-06 14:05:42 | 375 | Viewer | | 101 | 2023-11-22 16:45:21 | 2023-11-22 20:39:21 | 594 | Streamer | | 102 | 2023-11-16 13:23:09 | 2023-11-16 16:10:09 | 777 | Streamer | | 102 | 2023-11-17 13:23:09 | 2023-11-17 16:10:09 | 778 | Streamer | | 101 | 2023-11-20 07:16:06 | 2023-11-20 08:33:06 | 315 | Streamer | | 104 | 2023-11-27 03:10:49 | 2023-11-27 03:30:49 | 797 | Viewer | | 103 | 2023-11-27 03:10:49 | 2023-11-27 03:30:49 | 798 | Streamer | +---------+---------------------+---------------------+------------+--------------+

Output:

+---------+----------------+ | user_id | sessions_count | +---------+----------------+ | 101 | 2 | +---------+----------------+

Explanation

- user_id 101, initiated their initial session as a viewer on 2023-11-06 at 13:53:42, followed by two subsequent sessions as a Streamer, the count will be 2. - user_id 102, although there are two sessions, the initial session was as a Streamer, so this user will be excluded. - user_id 103 participated in only one session, which was as a Streamer, hence, it won't be considered. - User_id 104 commenced their first session as a viewer but didn't have any subsequent sessions, therefore, they won't be included in the final count. Output table is ordered by sessions count and user_id 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 count_turned_streamers(sessions: pd.DataFrame) -> pd.DataFrame:
```

Solutions

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