

3060. User Activities within Time Bounds

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 the **users** who have had **at least one consecutive session** of the **same** type (either 'Viewer' or 'Streamer') with a **maximum gap** of **12** hours **between** sessions.

Return *the result table ordered by user_id in ascending order*.

The result format is in the following example.

Example:

Input:					
Sessions table:					
user_id	session_start	session_end	session_id	session_type	
101	2023-11-01 08:00:00	2023-11-01 09:00:00	1	Viewer	
101	2023-11-01 10:00:00	2023-11-01 11:00:00	2	Streamer	
102	2023-11-01 13:00:00	2023-11-01 14:00:00	3	Viewer	
102	2023-11-01 15:00:00	2023-11-01 16:00:00	4	Viewer	
101	2023-11-02 09:00:00	2023-11-02 10:00:00	5	Viewer	
102	2023-11-02 12:00:00	2023-11-02 13:00:00	6	Streamer	
101	2023-11-02 13:00:00	2023-11-02 14:00:00	7	Streamer	
102	2023-11-02 16:00:00	2023-11-02 17:00:00	8	Viewer	
103	2023-11-01 08:00:00	2023-11-01 09:00:00	9	Viewer	
103	2023-11-02 20:00:00	2023-11-02 23:00:00	10	Viewer	
103	2023-11-03 09:00:00	2023-11-03 10:00:00	11	Viewer	
Output:					
user_id					
102					
103					
Explanation:					
- User ID 101 will not be included in the final output as they do not have any consecutive sessions of the same session type.					
- User ID 102 will be included in the final output as they had two viewer sessions with session IDs 3 and 4, respectively, and the time gap between them was less than 12 hours.					
- User ID 103 participated in two viewer sessions with a gap of less than 12 hours between them, identified by session IDs 10 and 11. Therefore, user 103 will be included in the final output.					
Output table is ordered by user_id in increasing order.					

