

# 3089. Find Bursty Behavior

## Description

Table: `Posts`

+-----+-----+		
\  Column Name \	Type	\
+-----+-----+		
\  post_id	\  int	\
\  user_id	\  int	\
\  post_date	\  date	\
+-----+-----+		
post_id is the primary key (column with unique values) for this table.		
Each row of this table contains post_id, user_id, and post_date.		

Write a solution to find users who demonstrate **bursty behavior** in their posting patterns during February `2024` . **Bursty behavior** is defined as **any** period of **7 consecutive** days where a user's posting frequency is **at least twice** to their **average** weekly posting frequency for February `2024` .

**Note:** Only include the dates from February `1` to February `28` in your analysis, which means you should count February as having exactly `4` weeks.

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

The result format is in the following example.

Example:

Input:

Posts table:

+-----+-----+-----+		
\  post_id \	user_id \	post_date \
+-----+-----+-----+		
\  1	\  1	\  2024-02-27 \
\  2	\  5	\  2024-02-06 \
\  3	\  3	\  2024-02-25 \
\  4	\  3	\  2024-02-14 \
\  5	\  3	\  2024-02-06 \
\  6	\  2	\  2024-02-25 \
+-----+-----+-----+		

Output:

+-----+-----+-----+		
\  user_id \	max_7day_posts \	avg_weekly_posts \
+-----+-----+-----+		
\  1	\  1	\  0.2500 \
\  2	\  1	\  0.2500 \
\  5	\  1	\  0.2500 \
+-----+-----+-----+		

Explanation:

- **User 1:** Made only 1 post in February, resulting in an average of 0.25 posts per week and a max of 1 post in any 7-day period.
- **User 2:** Also made just 1 post, with the same average and max 7-day posting frequency as User 1.
- **User 5:** Like Users 1 and 2, User 5 made only 1 post throughout February, leading to the same average and max 7-day posting metrics.
- **User 3:** Although User 3 made more posts than the others (3 posts), they did not reach twice the average weekly posts in their consecutive 7-day window, so they are not listed in the output.

**Note:** Output table is ordered by user\_id in ascending order.

