

# Problem 1142: User Activity for the Past 30 Days II

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 35.62%

**Paid Only:** Yes

**Tags:** Database

## Problem Description

Table: `Activity`

+-----+-----+ | Column Name | Type | +-----+-----+ | user\_id | int | | session\_id | int | | activity\_date | date | | activity\_type | enum | +-----+-----+ This table may have duplicate rows. The activity\_type column is an ENUM (category) of type ('open\_session', 'end\_session', 'scroll\_down', 'send\_message'). The table shows the user activities for a social media website. Note that each session belongs to exactly one user.

Write a solution to find the average number of sessions per user for a period of `30` days ending `2019-07-27` inclusively, **\*\*rounded to 2 decimal places\*\***. The sessions we want to count for a user are those with at least one activity in that time period.

The result format is in the following example.

**\*\*Example 1:\*\***

**\*\*Input:\*\*** Activity table: +-----+-----+-----+-----+ | user\_id | session\_id | activity\_date | activity\_type | +-----+-----+-----+-----+ | 1 | 1 | 2019-07-20 | open\_session | | 1 | 1 | 2019-07-20 | scroll\_down | | 1 | 1 | 2019-07-20 | end\_session | | 2 | 4 | 2019-07-20 | open\_session | | 2 | 4 | 2019-07-21 | send\_message | | 2 | 4 | 2019-07-21 | end\_session | | 3 | 2 | 2019-07-21 | open\_session | | 3 | 2 | 2019-07-21 | send\_message | | 3 | 2 | 2019-07-21 | end\_session | | 3 | 5 | 2019-07-21 | open\_session | | 3 | 5 | 2019-07-21 | scroll\_down | | 3 | 5 | 2019-07-21 | end\_session | | 4 | 3 | 2019-06-25 | open\_session | | 4 | 3 | 2019-06-25 | end\_session | +-----+-----+-----+-----+ **\*\*Output:\*\***  
+-----+ | average\_sessions\_per\_user | +-----+ | 1.33 |

+-----+ **\*\*Explanation:\*\*** User 1 and 2 each had 1 session in the past 30 days while user 3 had 2 sessions so the average is  $(1 + 1 + 2) / 3 = 1.33$ .

## 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
```