

# Problem 1141: User Activity for the Past 30 Days I

## Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

## 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 daily active user count for a period of

30

days ending

2019-07-27

inclusively. A user was active on someday if they made at least one activity on that day.

Return the result table in

any order

.

The result format is in the following example.

Note:

Any

activity from (

'open\_session'

,

'end\_session'

,

'scroll\_down'

,

'send\_message'

) will be considered valid activity for a user to be considered active on a day.

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 | | 4 | 3 | 2019-06-25 | open\_session | | 4 | 3 | 2019-06-25 |  
end\_session | +-----+-----+-----+-----+

Output:

```
+-----+-----+ | day | active_users | +-----+-----+ | 2019-07-20 | 2 | |
2019-07-21 | 2 | +-----+-----+
```

Explanation:

Note that we do not care about days with zero active users.

## 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 user_activity(activity: pd.DataFrame) -> pd.DataFrame:
```

## Solutions

### MySQL Solution:

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