

Problem List

Description | Editorial | Solutions | Submissions

1142. User Activity for the Past 30 Days II

Solved

Easy | Topics | Companies

SQL Schema | Pandas Schema

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.

Seen this question in a real interview before? 1/5

Yes No

Accepted 41.9K | Submissions 117.4K | Acceptance Rate 35.7%

Topics

Companies

Discussion (11)

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Code

MySQL | Auto

1 # Write your MySQL query statement below
2
3
4 SELECT ROUND(IFNULL(AVG(SESSIONS), 0.00),2) AS AVERAGE_SESSIONS_PER_USER
5 FROM
6 (
7 SELECT
8 USER_ID,
9 COUNT(DISTINCT SESSION_ID) AS SESSIONS
10 FROM ACTIVITY
11 WHERE ACTIVITY_DATE BETWEEN '2019-06-28' AND '2019-07-27'
12 GROUP BY USER_ID
13)
14 AS T1
15

Saved

Ln 8, Col 13

Testcase | Test Result

Accepted Runtime: 131 ms

Case 1

Input

Activity =

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

View more

Output

AVERAGE_SESSIONS_PER_USER