

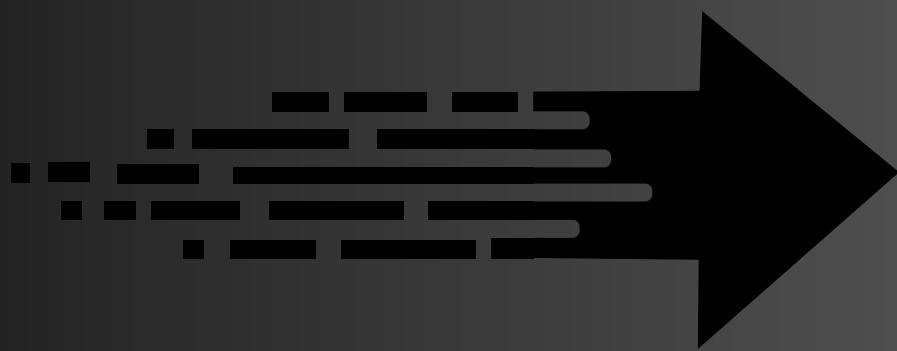


LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 14/50

14. Confirmation Rate





50 Days 50 SQL Questions

Work In Progress

Question

The **confirmation rate** of a user is the number of `'confirmed'` messages divided by the total number of requested confirmation messages. The confirmation rate of a user that did not request any confirmation messages is `0`. Round the confirmation rate to **two decimal** places.

Write a solution to find the **confirmation rate** of each user.

Return the result table in **any order**.





50 Days 50 SQL Questions

Work In Progress

Table

Input:

Signups table:

user_id	time_stamp
3	2020-03-21 10:16:13
7	2020-01-04 13:57:59
2	2020-07-29 23:09:44
6	2020-12-09 10:39:37

Confirmations table:

user_id	time_stamp	action
3	2021-01-06 03:30:46	timeout
3	2021-07-14 14:00:00	timeout
7	2021-06-12 11:57:29	confirmed
7	2021-06-13 12:58:28	confirmed
7	2021-06-14 13:59:27	confirmed
2	2021-01-22 00:00:00	confirmed
2	2021-02-28 23:59:59	timeout





50 Days 50 SQL Questions

Work In Progress

Approach

Used 2 CTEs ConfirmedCounts and TotalCounts to check how many times users tried to send message and how many times it was confirmed. Then used 2 left joins to join these CTEs with signups table on user_id and got the desired result by dividing ConfirmedCounts and TotalCounts for each users_id.





50 Days 50 SQL Questions

Work In Progress

Query

MySQL Auto



```
1  WITH ConfirmedCounts AS (  
2      SELECT  
3          user_id, COUNT(*) AS confirmed_count  
4      FROM Confirmations  
5      WHERE action = 'confirmed'  
6      GROUP BY user_id  
7  ),  
8  TotalCounts AS (  
9      SELECT  
10         user_id, COUNT(*) AS total_count  
11     FROM Confirmations  
12     GROUP BY user_id  
13 )  
14 SELECT  
15     s.user_id,  
16     ROUND(COALESCE(confirmed_count, 0) / COALESCE(total_count, 1), 2) AS confirmation_rate  
17 FROM Signups s LEFT JOIN ConfirmedCounts cc  
18     ON s.user_id = cc.user_id  
19 LEFT JOIN TotalCounts tc  
20     ON s.user_id = tc.user_id;  
21
```





50 Days 50 SQL Questions

Work In Progress

Output

Output:

user_id	confirmation_rate
6	0.00
3	0.00
7	1.00
2	0.50





50 Days 50 SQL Questions

Work In Progress

*Share your
thoughts in the
comment section*

*Follow For
More*



Thank You :)

