

Description Editorial Solutions (526) Submissions

1934. Confirmation Rate

Medium 402 29

Companies

[SQL Schema](#)

Table: Signups

Column Name	Type
user_id	int
time_stamp	datetime

user_id is the primary key for this table.
Each row contains information about the signup time for the user with ID user_id.

Table: Confirmations

Column Name	Type
user_id	int
time_stamp	datetime
action	ENUM

(user_id, time_stamp) is the primary key for this table.
user_id is a foreign key with a reference to the Signups table.
action is an ENUM of the type ('confirmed', 'timeout')
Each row of this table indicates that the user with ID user_id requested a confirmation message at time_stamp and that confirmation message was either confirmed ('confirmed') or expired without confirming ('timeout').

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 an SQL query to find the **confirmation rate** of each user.

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

The query result format is in the following example.

Example 1:

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

Output:

user_id	confirmation_rate
6	0.00
3	0.00
7	1.00
2	0.50

Explanation:

User 6 did not request any confirmation messages. The confirmation rate is 0.
User 3 made 2 requests and both timed out. The confirmation rate is 0.
User 7 made 3 requests and all were confirmed. The confirmation rate is 1.
User 2 made 2 requests where one was confirmed and the other timed out. The confirmation rate is $1 / 2 = 0.5$.

MySQL Auto

```
1 # Write your MySQL query statement below
2 SELECT
3     user_id,
4     ROUND(
5         SUM(
6             CASE
7                 WHEN action = 'timeout' THEN 0
8                 WHEN action = 'confirmed' THEN 1
9                 WHEN action is NULL THEN 0
10            END)
11         /COUNT(*),
12     2) AS confirmation_rate
13 FROM Signups s
14 LEFT JOIN Confirmations c
15 USING(user_id)
16 GROUP BY user_id
```

Ln 12, Col 8

Console

Run

Run

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Yes No

Discussion (21) ▾

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