

Medium

Table: Signups

Column Name	Type
user_id	int
time_stamp	datetime

user_id is the column of unique values 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 (combination of columns with unique values) for this table.

user_id is a foreign key (reference column) to the Signups table.

action is an ENUM (category) 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 a solution to find the **confirmation rate** of each user.

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

The 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

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Output:

user_id confirmation_rate	
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6	0.00
3	0.00
7	1.00
2	0.50

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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 $1 / 2 = 0.5$.

Write your MySQL query statement below

```
SELECT s.user_id, ROUND(AVG(IF(action='confirmed',1,0)),2) AS confirmation_rate
FROM Confirmations c
RIGHT JOIN Signups s ON c.user_id=s.user_id
GROUP BY s.user_id;
```