

597. Friend Requests I: Overall Acceptance Rate

Premium

Easy

Topics

Companies

Hint

SQL Schema

Pandas Schema

Table:

FriendRequest

Column Name	Type
sender_id	int
send_to_id	int
request_date	date

This table may contain duplicates (In other words, there is no primary key for this table in SQL).

This table contains the ID of the user who sent the request, the ID of the user who received the request, and the date of the request.

Table:

RequestAccepted

Column Name	Type
requester_id	int
accepter_id	int
accept_date	date

This table may contain duplicates (In other words, there is no primary key for this table in SQL).

This table contains the ID of the user who sent the request, the ID of the user who received the request, and the date when the request was accepted.

Find the overall acceptance rate of requests, which is the number of acceptance divided by the number of requests. Return the answer rounded to 2 decimals places.

Note that:

- The accepted requests are not necessarily from the table `friend_request`. In this case, Count the total accepted requests (no matter whether they are in the original requests), and divide it by the number of requests to get the acceptance rate.
- It is possible that a sender sends multiple requests to the same receiver, and a request could be accepted more than once. In this case, the 'duplicated' requests or acceptances are only counted once.
- If there are no requests at all, you should return 0.00 as the `accept_rate`.

The result format is in the following example.

Example 1:

Input:

FriendRequest table:

sender_id	send_to_id	request_date
1	2	2016/06/01
1	3	2016/06/01
1	4	2016/06/01
2	3	2016/06/02
3	4	2016/06/09

RequestAccepted table:

requester_id	accepter_id	accept_date
1	2	2016/06/03
1	3	2016/06/08
2	3	2016/06/08
3	4	2016/06/09
3	4	2016/06/10

Output:

accept_rate
0.8

Explanation:

There are 4 unique accepted requests, and there are 5 requests in total. So the rate is 0.80.

Follow up:

- Could you find the acceptance rate for every month?
- Could you find the cumulative acceptance rate for every day?

Seen this question in a real interview before?

1/5

Yes

No

Accepted

78.2K

Submissions

187.5K

Acceptance Rate

41.7%

Topics

Database

Companies

0 - 6 months

Meta

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Hint 1

Still remember how to count the number of rows in a table?

Hint 2

What is the keyword to filter the duplicated records in a table?

Discussion (17)