

597. Friend Requests I: Overall Acceptance Rate Premium

Solved

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 74.7K Submissions 178.1K Acceptance Rate 41.9%

Topics

Companies

Hint 1

Hint 2

Discussion (15)

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</> Code

MySQL Auto

```
1 # Write your MySQL query statement below
2
3 SELECT IFNULL(ROUND(a.v1 / b.v2, 2), 0) AS accept_rate
4 FROM
5 (
6     SELECT COUNT(*) AS v1
7     FROM
8     (
9         SELECT DISTINCT requester_id, acceptor_id
10        FROM RequestAccepted
11    ) AS suba
12 ) AS a,
13 (
14     SELECT COUNT(*) AS v2
15     FROM
16     (
17         SELECT DISTINCT sender_id, send_to_id
18        FROM FriendRequest
19    ) UNION
20    #SELECT requester_id, acceptor_id
21    #FROM RequestAccepted
22 ) AS subb
23 ) AS b;
```

Saved

Ln 8, Col 6

Testcase Test Result

Accepted Runtime: 189 ms

Case 1

Input

FriendRequest =

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