

Problem List

RunSubmit

DescriptionEditorialSolutionsSubmissions

2205. The Number of Users That Are Eligible for DiscountPremiumSolved

EasyTopicsCompanies

SQL Schema0

Table: Purchases

Column Name	Type
user_id	int
time_stamp	datetime
amount	int

(user_id, time_stamp) is the primary key (combination of columns with unique values) for this table.
Each row contains information about the purchase time and the amount paid for the user with ID user_id.

A user is eligible for a discount if they had a purchase in the inclusive interval of time [startDate, endDate] with at least minAmount amount. To convert the dates to times, both dates should be considered as the **start** of the day (i.e., endDate = 2022-03-05 should be considered as the time 2022-03-05 00:00:00).

Write a solution to report the number of users that are eligible for a discount.

The result format is in the following example.

Example 1:

Input:
Purchases table:

user_id	time_stamp	amount
1	2022-04-20 09:03:00	4416
2	2022-03-19 19:24:02	678
3	2022-03-18 12:03:09	4523
3	2022-03-30 09:43:42	626

startDate = 2022-03-08, endDate = 2022-03-20, minAmount = 1000

Output:

user_cnt
1

Explanation:
Out of the three users, only User 3 is eligible for a discount.
- User 1 had one purchase with at least minAmount amount, but not within the time interval.
- User 2 had one purchase within the time interval, but with less than minAmount amount.
- User 3 is the only user who had a purchase that satisfies both conditions.

Seen this question in a real interview before? 1/5

YesNo

Accepted 5.9K | Submissions 11.8K | Acceptance Rate 49.9%

TopicsCompaniesSimilar QuestionsDiscussion (8)

Copyright © 2024 LeetCode All rights reserved

258

</> Code

MySQLAuto

```
1
2
3 CREATE FUNCTION getUserIDs(startDate DATE, endDate DATE, minAmount INT) RETURNS INT
4 BEGIN
5     RETURN (
6         SELECT COUNT(DISTINCT user_id) AS usr_cnt
7         FROM purchases
8         WHERE time_stamp >= startDate AND time_stamp <= endDate
9         AND amount >= minAmount
10    );
11 END
```

SavedLn 1, Col 1

TestcaseTest Result

Case 1

Purchases =

user_id	time_stamp	amount
1	2022-04-20 09:03:00	4416
2	2022-03-19 19:24:02	678
3	2022-03-18 12:03:09	4523
3	2022-03-30 09:43:42	626

startDate =

"2022-03-08"

endDate =

"2022-03-20"