Description | Editorial | Submissions | Solutions

2230. The Users That Are Eligible for Discount

Premium

Solved

Easy | Topics | Companies

SQL Schema > | Pandas Schema >

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 IDs of the users that are eligible for a discount.

Return the result table ordered by `user_id`.

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_id |
+---------+
| 3       |
+---------+
```

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.

Important Note: This problem is basically the same as The Number of Users That Are Eligible for Discount.

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

Yes | No

Accepted 5.1K | Submissions 10.2K | Acceptance Rate 49.8%

Topics

Companies

Similar Questions

Discussion (1)

19 | 1

Code

MySQL | Auto

```mysql
CREATE PROCEDURE getUserIDs(startDate DATE, endDate DATE, minAmount INT)
BEGIN
    # Write your MySQL query statement below.

    SELECT DISTINCT user_id
    FROM purchases
    WHERE time_stamp >= startDate AND time_stamp <= endDate
    AND amount >= minAmount
    ORDER BY user_id;

END
```

Saved | Ln 11, Col 4

Testcase | Test Result

Accepted Runtime: 325 ms

Case 1

Input

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"