

# Problem 2230: The Users That Are Eligible for Discount

## Problem Information

Difficulty: Easy

Acceptance Rate: 50.57%

Paid Only: Yes

Tags: Database

## Problem Description

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](https://leetcode.com/problems/the-number-of-users-that-are-eligible-for-discount/).

## Code Snippets

### MySQL:

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

END
```

### MS SQL Server:

```
CREATE PROCEDURE getUserIDs(@startDate DATE, @endDate DATE, @minAmount INT)
AS
BEGIN
  /* Write your T-SQL query statement below. */

END
```

### PostgreSQL:

```
CREATE OR REPLACE FUNCTION getUserIDs(startDate DATE, endDate DATE, minAmount
INT)
RETURNS TABLE (user_id INT) AS $$
BEGIN
  RETURN QUERY (
    -- Write your PostgreSQL query statement below.

  );
END;
$$ LANGUAGE plpgsql;
```