2752. Customers with Maximum Number of Transactions on Consecutive Days Premium

Hard Topics

SQL Schema > Pandas Schema >

Table: `Transactions`

```
+------------------+------+
| Column Name      | Type |
+------------------+------+
| transaction_id   | int  |
| customer_id      | int  |
| transaction_date | date |
| amount           | int  |
+------------------+------+
transaction_id is the column with unique values of this table.
Each row contains information about transactions that includes unique (customer_id, transaction_date) along with the corresponding customer_id and amount.
```

Write a solution to find all `customer_id` who made the maximum number of transactions on consecutive days.

Return all `customer_id` with the maximum number of consecutive transactions. Order the result table by `customer_id` in **ascending** order.

The result format is in the following example.

Example 1:

Input:

Transactions table:

```
+----------------+-------------+------------------+--------+
| transaction_id | customer_id | transaction_date | amount |
+----------------+-------------+------------------+--------+
| 1              | 101         | 2023-05-01       | 100    |
| 2              | 101         | 2023-05-02       | 150    |
| 3              | 101         | 2023-05-03       | 200    |
| 4              | 102         | 2023-05-01       | 50     |
| 5              | 102         | 2023-05-03       | 100    |
| 6              | 102         | 2023-05-04       | 200    |
| 7              | 105         | 2023-05-01       | 100    |
| 8              | 105         | 2023-05-02       | 150    |
| 9              | 105         | 2023-05-03       | 200    |
+----------------+-------------+------------------+--------+
```

Output:

```
+-------------+
| customer_id |
+-------------+
| 101         |
| 105         |
+-------------+
```

Explanation:

- customer_id 101 has a total of 3 transactions, and all of them are consecutive.
- customer_id 102 has a total of 3 transactions, but only 2 of them are consecutive.
- customer_id 105 has a total of 3 transactions, and all of them are consecutive.

In total, the highest number of consecutive transactions is 3, achieved by customer_id 101 and 105. The customer_id are sorted in ascending order.

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

Yes No

Accepted 1.9K | Submissions 4.7K | Acceptance Rate 39.1%

Topics

Database

Discussion (6)