

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

1831. Maximum Transaction Each Day

Solved

Premium

MediumTopics

SQL SchemaPandas Schema

Table: Transactions

Column Name	Type
transaction_id	int
day	datetime
amount	int

transaction_id is the column with unique values for this table. Each row contains information about one transaction.

Write a solution to report the IDs of the transactions with the maximum amount on their respective day. If in one day there are multiple such transactions, return all of them.

Return the result table ordered by transaction_id in ascending order.

The result format is in the following example.

Example 1:

Input:

Transactions table:

transaction_id	day	amount
8	2021-4-3 15:57:28	57
9	2021-4-28 08:47:25	21
1	2021-4-29 13:28:30	58
5	2021-4-28 16:39:59	40
6	2021-4-29 23:39:28	58

Output:

transaction_id
1
5
6
8

Explanation:

"2021-4-3" -> We have one transaction with ID 8, so we add 8 to the result table.

"2021-4-28" -> We have two transactions with IDs 5 and 9. The transaction with ID 5 has an amount of 40, while the transaction with ID 9 has an amount of 21. We only include the transaction with ID 5 as it has the maximum amount this day.

"2021-4-29" -> We have two transactions with IDs 1 and 6. Both transactions have the same amount of 58, so we include both in the result table.

We order the result table by transaction_id after collecting these IDs.

Follow up: Could you solve it without using the MAX() function?

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

YesNo

Accepted 27,276/33,1K | Acceptance Rate 82.4%

Topics

Discussion (9)

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9590 Online

Code

PandasAuto

```
1 import pandas as pd
2
3 def find_maximum_transaction(transactions: pd.DataFrame) -> pd.DataFrame:
4
5     # Extract date from datetime
6     transactions["day_only"] = transactions["day"].dt.date
7
8     # Find max amount per day
9     max_per_day = transactions.groupby("day_only")["amount"].transform("max")
10
11     # Keep rows where amount equals daily max
12     result = transactions[transactions["amount"] == max_per_day]
13
14     # Sort by transaction_id
15     result = result.sort_values("transaction_id")
16
17     return result[["transaction_id"]]
18
```

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TestcaseTest Result

AcceptedRuntime: 277 ms

Case 1

Input

Transactions =

transaction_id	day	amount
8	2021-4-3 15:57:28	57
9	2021-4-28 08:47:25	21