

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

2066. Account BalancePremiumSolved

MediumTopics

SQL SchemaPandas Schema

Table: Transactions

Column Name	Type
account_id	int
day	date
type	ENUM
amount	int

(account_id, day) is the primary key (combination of columns with unique values) for this table.
Each row contains information about one transaction, including the transaction type, the day it occurred on, and the amount. type is an ENUM (category) of the type ('Deposit','Withdraw')

Write a solution to report the balance of each user after each transaction. You may assume that the balance of each account before any transaction is 0 and that the balance will never be below 0 at any moment.

Return the result table in ascending order by account_id, then by day in case of a tie.

The result format is in the following example.

Example 1:

Input:

Transactions table:

account_id	day	type	amount
1	2021-11-07	Deposit	2000
1	2021-11-09	Withdraw	1000
1	2021-11-11	Deposit	3000
2	2021-12-07	Deposit	7000
2	2021-12-12	Withdraw	7000

Output:

account_id	day	balance
1	2021-11-07	2000
1	2021-11-09	1000
1	2021-11-11	4000
2	2021-12-07	7000
2	2021-12-12	0

Explanation:

Account 1:

- Initial balance is 0.
- 2021-11-07 --> deposit 2000. Balance is 0 + 2000 = 2000.
- 2021-11-09 --> withdraw 1000. Balance is 2000 - 1000 = 1000.
- 2021-11-11 --> deposit 3000. Balance is 1000 + 3000 = 4000.

Account 2:

- Initial balance is 0.
- 2021-12-07 --> deposit 7000. Balance is 0 + 7000 = 7000.
- 2021-12-12 --> withdraw 7000. Balance is 7000 - 7000 = 0.

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

YesNo

Accepted 12,400/15.2K | Acceptance Rate 81.8%

Topics

Discussion (7)

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Code

Pandas

Auto

```
10 for index, row in transactions.iterrows():
11     if row['account_id'] != account_id:
12         account_id = row['account_id']
13         balance = 0
14
15     if row['type'] == 'Deposit':
16         balance += row['amount']
17
18     elif row['type'] == 'Withdraw':
19         balance -= row['amount']
20
21
22     transactions.loc[index, 'balance'] = balance
23
24
25 return transactions[['account_id', 'day', 'balance']]
26
27
```

SavedLn 18, Col 40

TestcaseTest Result

AcceptedRuntime: 261 ms

Case 1

Input

Transactions =

account_id	day	type	amount
1	2021-11-07	Deposit	2000
1	2021-11-09	Withdraw	1000
1	2021-11-11	Deposit	3000
2	2021-12-07	Deposit	7000

2 | 2021-12-12 | Withdraw | 7000 |