

Problem List < > **Submit** Solved

Description Accepted Editorial Solutions Submissions

2066. Account Balance Premium

Medium Topics

SQL Schema > **Pandas 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
Yes No

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

Topics

Discussion (7)

Copyright © 2025 LeetCode. All rights reserved.

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     transactions.loc[index, 'balance'] = balance
22
23
24 return transactions[['account_id', 'day', 'balance']]
25
26
27

```

Saved Ln 18, Col 40

Testcase Test Result

Accepted Runtime: 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