

Problem 1555: Bank Account Summary

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Users

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int ||
user_name | varchar | credit | int | +-----+-----+ user_id is the primary key (column
with unique values) for this table. Each row of this table contains the current credit information
for each user.

Table:

Transactions

+-----+-----+ | Column Name | Type | +-----+-----+ | trans_id | int ||
paid_by | int | paid_to | int | amount | int | transacted_on | date | +-----+-----+
trans_id is the primary key (column with unique values) for this table. Each row of this table
contains information about the transaction in the bank. User with id (paid_by) transfer money
to user with id (paid_to).

Leetcode Bank (LCB) helps its coders in making virtual payments. Our bank records all
transactions in the table

Transaction

, we want to find out the current balance of all users and check whether they have breached
their credit limit (If their current credit is less than

0

).

Write a solution to report.

user_id

,

user_name

,

credit

, current balance after performing transactions, and

credit_limit_breached

, check credit_limit (

"Yes"

or

"No"

)

Return the result table in

any

order.

The result format is in the following example.

Example 1:

Input:

Users table: +-----+-----+-----+ | user_id | user_name | credit |
+-----+-----+-----+ | 1 | Moustafa | 100 | | 2 | Jonathan | 200 | | 3 | Winston |
10000 | | 4 | Luis | 800 | +-----+-----+-----+ Transactions table:
+-----+-----+-----+-----+ | trans_id | paid_by | paid_to | amount |
transacted_on | +-----+-----+-----+-----+ | 1 | 1 | 3 | 400 |
2020-08-01 | | 2 | 3 | 2 | 500 | 2020-08-02 | | 3 | 2 | 1 | 200 | 2020-08-03 |
+-----+-----+-----+

Output:

+-----+-----+-----+-----+ | user_id | user_name | credit |
credit_limit_breached | +-----+-----+-----+ | 1 | Moustafa |
-100 | Yes | | 2 | Jonathan | 500 | No | | 3 | Winston | 9900 | No | | 4 | Luis | 800 | No |
+-----+-----+-----+

Explanation:

Moustafa paid \$400 on "2020-08-01" and received \$200 on "2020-08-03", credit (100 -400 +200) = -\$100 Jonathan received \$500 on "2020-08-02" and paid \$200 on "2020-08-08", credit (200 +500 -200) = \$500 Winston received \$400 on "2020-08-01" and paid \$500 on "2020-08-03", credit (10000 +400 -500) = \$9990 Luis did not receive any transfer, credit = \$800

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def bank_account_summary(users: pd.DataFrame, transactions: pd.DataFrame) ->
    pd.DataFrame:
```

Solutions

MySQL Solution:

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