

Problem 1587: Bank Account Summary II

Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Users

+-----+-----+ | Column Name | Type | +-----+-----+ | account | int | | name |
varchar | +-----+-----+ account is the primary key (column with unique values) for this
table. Each row of this table contains the account number of each user in the bank. There will
be no two users having the same name in the table.

Table:

Transactions

+-----+-----+ | Column Name | Type | +-----+-----+ | trans_id | int | |
account | 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 all
changes made to all accounts. amount is positive if the user received money and negative if
they transferred money. All accounts start with a balance of 0.

Write a solution to report the name and balance of users with a balance higher than

10000

. The balance of an account is equal to the sum of the amounts of all transactions involving
that account.

Return the result table in

any order

The result format is in the following example.

Example 1:

Input:

Users table: +-----+-----+ | account | name | +-----+-----+ | 900001 | Alice | | 900002 | Bob | | 900003 | Charlie | +-----+-----+ Transactions table:
+-----+-----+-----+ | trans_id | account | amount | transacted_on |
+-----+-----+-----+ | 1 | 900001 | 7000 | 2020-08-01 | | 2 | 900001 | 7000 | 2020-09-01 | | 3 | 900001 | -3000 | 2020-09-02 | | 4 | 900002 | 1000 | 2020-09-12 | | 5 | 900003 | 6000 | 2020-08-07 | | 6 | 900003 | 6000 | 2020-09-07 | | 7 | 900003 | -4000 | 2020-09-11 | +-----+-----+-----+

Output:

+-----+-----+ | name | balance | +-----+-----+ | Alice | 11000 |
+-----+-----+

Explanation:

Alice's balance is $(7000 + 7000 - 3000) = 11000$. Bob's balance is 1000. Charlie's balance is $(6000 + 6000 - 4000) = 8000$.

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

Solutions

MySQL Solution:

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