Problem 1205: Monthly Transactions II

Problem Information

Difficulty: Medium
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Transactions

+----------------+---------+ | Column Name | Type | +----------------+---------+ | id | int | | country | varchar | | state | enum | | amount | int | | trans_date | date | +----------------+---------+ id is the column of unique values of this table. The table has information about incoming transactions. The state column is an ENUM (category) of type ["approved", "declined"].

Table:

Chargebacks

+----------------+---------+ | Column Name | Type | +----------------+---------+ | trans_id | int | | trans_date | date | +----------------+---------+ Chargebacks contains basic information regarding incoming chargebacks from some transactions placed in Transactions table. trans_id is a foreign key (reference column) to the id column of Transactions table. Each chargeback corresponds to a transaction made previously even if they were not approved.

Write a solution to find for each month and country: the number of approved transactions and their total amount, the number of chargebacks, and their total amount.

Note

: In your solution, given the month and country, ignore rows with all zeros.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Transactions table: +-----+---------+----------+--------+------------+ | id | country | state | amount | trans_date | +-----+---------+----------+--------+------------+ | 101 | US | approved | 1000 | 2019-05-18 | | 102 | US | declined | 2000 | 2019-05-19 | | 103 | US | approved | 3000 | 2019-06-10 | | 104 | US | declined | 4000 | 2019-06-13 | | 105 | US | approved | 5000 | 2019-06-15 | +-----+---------+----------+--------+------------+ Chargebacks table: +----------+------------+ | trans_id | trans_date | +----------+------------+ | 102 | 2019-05-29 | | 101 | 2019-06-30 | | 105 | 2019-09-18 | +----------+------------+

Output:

+---------+---------+---------------+----------------+-----------------+-------------------+ | month | country | approved_count | approved_amount | chargeback_count | chargeback_amount | +---------+---------+---------------+----------------+-----------------+-------------------+ | 2019-05 | US | 1 | 1000 | 1 | 2000 | | 2019-06 | US | 2 | 8000 | 1 | 1000 | | 2019-09 | US | 0 | 0 | 1 | 5000 | +---------+---------+---------------+----------------+-----------------+-------------------+

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 monthly_transactions(transactions: pd.DataFrame, chargebacks:
pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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

MS SQL Server Solution:

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

PostgreSQL Solution:

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

Oracle Solution:

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

Pandas Solution:

```
import pandas as pd

def monthly_transactions(transactions: pd.DataFrame, chargebacks:
pd.DataFrame) -> pd.DataFrame:
```