

Problem 3118: Friday Purchase III

Problem Information

Difficulty: **Medium**

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Purchases

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int | |
purchase_date | date | | amount_spend | int | +-----+-----+ (user_id, purchase_date,
amount_spend) is the primary key (combination of columns with unique values) for this table.
purchase_date will range from November 1, 2023, to November 30, 2023, inclusive of both
dates. Each row contains user_id, purchase_date, and amount_spend.

Table:

Users

+-----+-----+ | Column Name | Type | +-----+-----+ | user_id | int | | membership |
enum | +-----+-----+ user_id is the primary key for this table. membership is an ENUM
(category) type of ('Standard', 'Premium', 'VIP'). Each row of this table indicates the user_id,
membership type.

Write a solution to calculate the

total spending

by

Premium

and

VIP

members on

each Friday of every week

in November 2023. If there are

no purchases

on a

particular Friday

by

Premium

or

VIP

members, it should be considered as

0

.

Return

the result table

ordered by week of the month, and

membership

in

ascending

order

.

The result format is in the following example.

Example:

Input:

Purchases table:

user_id	purchase_date	amount_spend
11	2023-11-03	1126
15	2023-11-10	7473
17	2023-11-17	2414
12	2023-11-24	9692
8	2023-11-24	5117
1	2023-11-24	5241
10	2023-11-22	8266
13	2023-11-21	12000

Users table:

user_id	membership
11	Premium
15	VIP
17	Standard
12	VIP
8	Premium
1	VIP
10	Standard
13	Premium

Output:

week_of_month	membership	total_amount
1	Premium	1126
1	VIP	0
2	Premium	0
2	VIP	7473
3	Premium	0
3	VIP	0
4	Premium	5117
4	VIP	14933

Explanation:

During the first week of November 2023, a transaction occurred on Friday, 2023-11-03, by a Premium member amounting to \$1,126. No transactions were made by VIP members on this day, resulting in a value of 0.

For the second week of November 2023, there was a transaction on Friday, 2023-11-10, and it was made by a VIP member, amounting to \$7,473. Since there were no purchases by Premium members that Friday, the output shows 0 for Premium members.

Similarly, during the third week of November 2023, no transactions by Premium or VIP members occurred on Friday, 2023-11-17, which shows 0 for both categories in this week.

In the fourth week of November 2023, transactions occurred on Friday, 2023-11-24, involving one Premium member purchase of \$5,117 and VIP member purchases totaling \$14,933 (\$9,692 from one and \$5,241 from another).

Note:

The output table is ordered by week_of_month and membership in ascending order.

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 friday_purchases(purchases: pd.DataFrame, users: 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 friday_purchases(purchases: pd.DataFrame, users: pd.DataFrame) ->
pd.DataFrame:
```