

# Problem 2993: Friday Purchases I

## 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.

Write a solution to calculate the

total spending

by users on

each Friday

of

every week

in

November 2023

. Output only weeks that include

at least one

purchase on a

Friday

.

Return

the result table ordered by week of month

in

ascending

order.

The result format is in the following example.

Example 1:

Input:

Purchases table: +-----+-----+-----+ | user\_id | purchase\_date |  
amount\_spend | +-----+-----+-----+ | 11 | 2023-11-07 | 1126 | | 15 |  
2023-11-30 | 7473 | | 17 | 2023-11-14 | 2414 | | 12 | 2023-11-24 | 9692 | | 8 | 2023-11-03 |  
5117 | | 1 | 2023-11-16 | 5241 | | 10 | 2023-11-12 | 8266 | | 13 | 2023-11-24 | 12000 |  
+-----+-----+-----+

Output:

+-----+-----+-----+ | week\_of\_month | purchase\_date | total\_amount |  
+-----+-----+-----+ | 1 | 2023-11-03 | 5117 | | 4 | 2023-11-24 | 21692 |  
+-----+-----+-----+

Explanation:

- During the first week of November 2023, transactions amounting to \$5,117 occurred on Friday, 2023-11-03. - For the second week of November 2023, there were no transactions on Friday, 2023-11-10. - Similarly, during the third week of November 2023, there were no transactions on Friday, 2023-11-17. - In the fourth week of November 2023, two transactions took place on Friday, 2023-11-24, amounting to \$12,000 and \$9,692 respectively, summing up to a total of \$21,692. Output table is ordered by week\_of\_month 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) -> pd.DataFrame:
```

## Solutions

### MySQL Solution:

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