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Description Accepted Editorial Solutions Submissions

2993. Friday Purchases I Premium Solved

Medium Topics Companies

SQL Schema > Pandas Schema > 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.

Seen this question in a real interview before? 1/5

Yes No

Accepted 3,865 / 4.8K | Acceptance Rate 80.4%

Topics

Companies

Discussion (6)

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Code

Pandas Auto

```
1 import pandas as pd
2
3 def friday_purchases(purchases: pd.DataFrame) -> pd.DataFrame:
4
5     # Ensure datetime type
6     purchases['purchase_date'] = pd.to_datetime(purchases['purchase_date'])
7
8     # Keep only Fridays (Monday=0, ..., Friday=4)
9     friday_df = purchases[purchases['purchase_date'].dt.weekday == 4]
10
11     # Compute week of month
12     friday_df['week_of_month'] = (
13         (friday_df['purchase_date'].dt.day - 1) // 7 + 1
14     )
15
16     # Aggregate total spending per Friday
17     result = (
18         friday_df
19             .groupby(['week_of_month', 'purchase_date'], as_index=False)
20             .agg(total_amount=('amount_spend', 'sum'))
21             .sort_values('week_of_month')
22     )
23
24     return result
```

Saved

Testcase Test Result

Accepted Runtime: 254 ms

Case 1

Input

Purchases =

user_id	purchase_date	amount_spend
11	2023-11-07	1126
15	2023-11-30	7473
17	2023-11-14	2414

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