3118. Friday Purchase III Premium

Medium Topics

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.
```

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.

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

Yes No

Accepted **1.1K** | Submissions **1.9K** | Acceptance Rate **57.2%**

Topics

Database

Discussion (1)