

1479. Sales by Day of the Week Premium

Hard Topics Companies

SQL Schema > Pandas Schema >

Table: Orders

Column Name	Type
order_id	int
customer_id	int
order_date	date
item_id	varchar
quantity	int

(ordered_id, item_id) is the primary key (combination of columns with unique values) for this table.
This table contains information on the orders placed.
order_date is the date item_id was ordered by the customer with id customer_id.

Table: Items

Column Name	Type
item_id	varchar
item_name	varchar
item_category	varchar

item_id is the primary key (column with unique values) for this table.
item_name is the name of the item.
item_category is the category of the item.

You are the business owner and would like to obtain a sales report for category items and the day of the week.

Write a solution to report how many units in each category have been ordered on each **day of the week**.

Return the result table **ordered by** category.

The result format is in the following example.

Example 1:

Input:

Orders table:

order_id	customer_id	order_date	item_id	quantity
1	1	2020-06-01	1	10
2	1	2020-06-08	2	10
3	2	2020-06-02	1	5
4	3	2020-06-03	3	5
5	4	2020-06-04	4	1
6	4	2020-06-05	5	5
7	5	2020-06-05	1	10
8	5	2020-06-14	4	5
9	5	2020-06-21	3	5

Items table:

item_id	item_name	item_category
1	LC Alg. Book	Book
2	LC DB. Book	Book
3	LC SmarthPhone	Phone
4	LC Phone 2020	Phone
5	LC SmartGlass	Glasses
6	LC T-Shirt XL	T-Shirt

Output:

Category	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Book	20	5	0	0	10	0	0
Glasses	0	0	0	0	5	0	0
Phone	0	0	5	1	0	0	10
T-Shirt	0	0	0	0	0	0	0

Explanation:

On Monday (2020-06-01, 2020-06-08) were sold a total of 20 units (10 + 10) in the category Book (ids: 1, 2).
On Tuesday (2020-06-02) were sold a total of 5 units in the category Book (ids: 1, 2).
On Wednesday (2020-06-03) were sold a total of 5 units in the category Phone (ids: 3, 4).
On Thursday (2020-06-04) were sold a total of 1 unit in the category Phone (ids: 3, 4).
On Friday (2020-06-05) were sold 10 units in the category Book (ids: 1, 2) and 5 units in Glasses (ids: 5).
On Saturday there are no items sold.
On Sunday (2020-06-14, 2020-06-21) were sold a total of 10 units (5 +5) in the category Phone (ids: 3, 4).
There are no sales of T-shirts.

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

Yes No

Accepted 18.7K | Submissions 24.1K | Acceptance Rate 77.5%

Topics

Database

Companies

0 - 6 months

Amazon 2

Discussion (4)