

1532. The Most Recent Three Orders Premium

Medium Topics

SQL Schema > Pandas Schema >

Table: Customers

Column Name	Type
customer_id	int
name	varchar

customer_id is the column with unique values for this table.
This table contains information about customers.

Table: Orders

Column Name	Type
order_id	int
order_date	date
customer_id	int
cost	int

order_id is the column with unique values for this table.
This table contains information about the orders made by customer_id.
Each customer has **one order per day**.

Write a solution to find the most recent three orders of each user. If a user ordered less than three orders, return all of their orders.

Return the result table ordered by customer_name in **ascending order** and in case of a tie by the customer_id in **ascending order**. If there is still a tie, order them by order_date in **descending order**.

The result format is in the following example.

Example 1:

Input:

Customers table:

customer_id	name
1	Winston
2	Jonathan
3	Annabelle
4	Marwan
5	Khaled

Orders table:

order_id	order_date	customer_id	cost
1	2020-07-31	1	30
2	2020-07-30	2	40
3	2020-07-31	3	70
4	2020-07-29	4	100
5	2020-06-10	1	1010
6	2020-08-01	2	102
7	2020-08-01	3	111
8	2020-08-03	1	99
9	2020-08-07	2	32
10	2020-07-15	1	2

Output:

customer_name	customer_id	order_id	order_date
Annabelle	3	7	2020-08-01
Annabelle	3	3	2020-07-31
Jonathan	2	9	2020-08-07
Jonathan	2	6	2020-08-01
Jonathan	2	2	2020-07-30
Marwan	4	4	2020-07-29
Winston	1	8	2020-08-03
Winston	1	1	2020-07-31
Winston	1	10	2020-07-15

Explanation:

Winston has 4 orders, we discard the order of "2020-06-10" because it is the oldest order.
Annabelle has only 2 orders, we return them.
Jonathan has exactly 3 orders.
Marwan ordered only one time.
We sort the result table by customer_name in ascending order, by customer_id in ascending order, and by order_date in descending order in case of a tie.

Follow up: Could you write a general solution for the most recent n orders?

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

Yes No

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