

# Problem 1549: The Most Recent Orders for Each Product

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 64.96%

**Paid Only:** Yes

**Tags:** Database

## Problem Description

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 the customers.

Table: `Orders`

+-----+-----+ | Column Name | Type | +-----+-----+ | order\_id | int || order\_date | date || customer\_id | int || product\_id | int | +-----+-----+ order\_id is the column with unique values for this table. This table contains information about the orders made by customer\_id. There will be no product ordered by the same user \*\*more than once\*\* in one day.

Table: `Products`

+-----+-----+ | Column Name | Type | +-----+-----+ | product\_id | int || product\_name | varchar || price | int | +-----+-----+ product\_id is the column with unique values for this table. This table contains information about the Products.

Write a solution to find the most recent order(s) of each product.

Return the result table ordered by `product\_name` in ascending order and in case of a tie by the `product\_id` in \*\*ascending order\*\*. If there still a tie, order them by `order\_id` in \*\*ascending 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 | product\_id | +-----+-----+-----+-----+ | 1 |  
2020-07-31 | 1 | 1 | | 2 | 2020-07-30 | 2 | 2 | | 3 | 2020-08-29 | 3 | 3 | | 4 | 2020-07-29 | 4 | 1 | | 5 |  
| 2020-06-10 | 1 | 2 | | 6 | 2020-08-01 | 2 | 1 | | 7 | 2020-08-01 | 3 | 1 | | 8 | 2020-08-03 | 1 | 2 | |  
9 | 2020-08-07 | 2 | 3 | | 10 | 2020-07-15 | 1 | 2 | +-----+-----+-----+-----+  
Products table: +-----+-----+-----+ | product\_id | product\_name | price |  
+-----+-----+-----+ | 1 | keyboard | 120 | | 2 | mouse | 80 | | 3 | screen | 600 | | 4 |  
hard disk | 450 | +-----+-----+-----+ **\*\*Output:\*\***  
+-----+-----+-----+ | product\_name | product\_id | order\_id |  
order\_date | +-----+-----+-----+ | keyboard | 1 | 6 | 2020-08-01 | |  
keyboard | 1 | 7 | 2020-08-01 | | mouse | 2 | 8 | 2020-08-03 | | screen | 3 | 3 | 2020-08-29 | |  
+-----+-----+-----+ **\*\*Explanation:\*\*** keyboard's most recent order is in 2020-08-01, it was ordered two times this day. mouse's most recent order is in 2020-08-03, it was ordered only once this day. screen's most recent order is in 2020-08-29, it was ordered only once this day. The hard disk was never ordered and we do not include it in the result table.

## 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
```