

Problem 2292: Products With Three or More Orders in Two Consecutive Years

Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Orders

+-----+-----+ | Column Name | Type | +-----+-----+ | order_id | int | | product_id | int | | quantity | int | | purchase_date | date | +-----+-----+ order_id contains unique values. Each row in this table contains the ID of an order, the id of the product purchased, the quantity, and the purchase date.

Write a solution to report the IDs of all the products that were ordered three or more times in two consecutive years.

Return the result table in

any order

.

The result format is shown in the following example.

Example 1:

Input:

Orders table:

				order_id	product_id	quantity
				1	1	7
				2020-03-16	2	1
				2020-12-02	3	1
				2020-05-10	4	1
				2021-12-23	5	1
				2021-05-21	6	1
				2021-10-11	7	2
				2022-10-11	6	

Output:

	product_id	1
	1	

Explanation:

Product 1 was ordered in 2020 three times and in 2021 three times. Since it was ordered three times in two consecutive years, we include it in the answer. Product 2 was ordered one time in 2022. We do not include it in the answer.

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
```

Oracle:

```
/* Write your PL/SQL query statement below */
```

Pandas:

```
import pandas as pd

def find_valid_products(orders: pd.DataFrame) -> pd.DataFrame:
```

Solutions

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