Problem 1327: List the Products Ordered in a Period

Problem Information

Difficulty: Easy
Acceptance Rate: 0.00%
Paid Only: No

Problem Description

Table:

Products

+------------------+---------+ | Column Name | Type | +------------------+---------+ | product_id | int | | product_name | varchar | | product_category | varchar | +------------------+---------+ product_id is the primary key (column with unique values) for this table. This table contains data about the company's products.

Table:

Orders

+---------------+---------+ | Column Name | Type | +---------------+---------+ | product_id | int | | order_date | date | | unit | int | +---------------+---------+ This table may have duplicate rows. product_id is a foreign key (reference column) to the Products table. unit is the number of products ordered in order_date.

Write a solution to get the names of products that have at least

100

units ordered in

February 2020

and their amount.

Return the result table in

any order

.

The result format is in the following example.

Example 1:

Input:

Products table: +-------------+-----------------------+------------------+ | product_id | product_name | product_category | +-------------+-----------------------+------------------+ | 1 | Leetcode Solutions | Book | | 2 | Jewels of Stringology | Book | | 3 | HP | Laptop | | 4 | Lenovo | Laptop | | 5 | Leetcode Kit | T-shirt | +-------------+-----------------------+------------------+ Orders table: +--------------+--------------+----------+ | product_id | order_date | unit | +--------------+--------------+----------+ | 1 | 2020-02-05 | 60 | | 1 | 2020-02-10 | 70 | | 2 | 2020-01-18 | 30 | | 2 | 2020-02-11 | 80 | | 3 | 2020-02-17 | 2 | | 3 | 2020-02-24 | 3 | | 4 | 2020-03-01 | 20 | | 4 | 2020-03-04 | 30 | | 4 | 2020-03-04 | 60 | | 5 | 2020-02-25 | 50 | | 5 | 2020-02-27 | 50 | | 5 | 2020-03-01 | 50 | +--------------+--------------+----------+

Output:

+--------------------+---------+ | product_name | unit | +--------------------+---------+ | Leetcode Solutions | 130 | | Leetcode Kit | 100 | +--------------------+---------+

Explanation:

Products with product_id = 1 is ordered in February a total of (60 + 70) = 130. Products with product_id = 2 is ordered in February a total of 80. Products with product_id = 3 is ordered in February a total of (2 + 3) = 5. Products with product_id = 4 was not ordered in February 2020. Products with product_id = 5 is ordered in February a total of (50 + 50) = 100.

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 list_products(products: pd.DataFrame, orders: pd.DataFrame) ->
pd.DataFrame:
```

Solutions

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