Problem 1445: Apples & Oranges

Problem Information

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

Problem Description

Table:

Sales

+---------------+---------+ | Column Name | Type | +---------------+---------+ | sale_date | date | | fruit | enum | | sold_num | int | +---------------+---------+ (sale_date, fruit) is the primary key (combination of columns with unique values) of this table. This table contains the sales of "apples" and "oranges" sold each day.

Write a solution to report the difference between the number of

apples

and

oranges

sold each day.

Return the result table

ordered

by

sale_date

.

The result format is in the following example.

Example 1:

Input:

Sales table: +------------+------------+-------------+ | sale_date | fruit | sold_num | +------------+------------+-------------+ | 2020-05-01 | apples | 10 | | 2020-05-01 | oranges | 8 | | 2020-05-02 | apples | 15 | | 2020-05-02 | oranges | 15 | | 2020-05-03 | apples | 20 | | 2020-05-03 | oranges | 0 | | 2020-05-04 | apples | 15 | | 2020-05-04 | oranges | 16 | +------------+------------+-------------+

Output:

+------------+--------------+ | sale_date | diff | +------------+--------------+ | 2020-05-01 | 2 | | 2020-05-02 | 0 | | 2020-05-03 | 20 | | 2020-05-04 | -1 | +------------+--------------+

Explanation:

Day 2020-05-01, 10 apples and 8 oranges were sold (Difference 10 - 8 = 2). Day 2020-05-02, 15 apples and 15 oranges were sold (Difference 15 - 15 = 0). Day 2020-05-03, 20 apples and 0 oranges were sold (Difference 20 - 0 = 20). Day 2020-05-04, 15 apples and 16 oranges were sold (Difference 15 - 16 = -1).

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 apples_oranges(sales: pd.DataFrame) -> pd.DataFrame:
```

Solutions

MySQL Solution:

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