

Problem 1543: Fix Product Name Format

Problem Information

Difficulty: Easy

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

Table:

Sales

+-----+-----+ | Column Name | Type | +-----+-----+ | sale_id | int ||
product_name | varchar | | sale_date | date | +-----+-----+ sale_id is the column with
unique values for this table. Each row of this table contains the product name and the date it
was sold.

Since table Sales was filled manually in the year

2000

,

product_name

may contain leading and/or trailing white spaces, also they are case-insensitive.

Write a solution to report

product_name

in lowercase without leading or trailing white spaces.

sale_date

in the format

('YYYY-MM')

.

total

the number of times the product was sold in this month.

Return the result table ordered by

product_name

in

ascending order

. In case of a tie, order it by

sale_date

in

ascending order

.

The result format is in the following example.

Example 1:

Input:

Sales table: +-----+-----+-----+ | sale_id | product_name | sale_date |
+-----+-----+-----+ | 1 | LCPHONE | 2000-01-16 | | 2 | LCPhone | 2000-01-17 | |
3 | LcPhOnE | 2000-02-18 | | 4 | LCKeyCHAiN | 2000-02-19 | | 5 | LCKeyChain | 2000-02-28 | |
6 | Matryoshka | 2000-03-31 | +-----+-----+-----+

Output:

```
+-----+-----+-----+ | product_name | sale_date | total |  
+-----+-----+-----+ | lckeychain | 2000-02 | 2 | | lcphone | 2000-01 | 2 | | lcphone |  
2000-02 | 1 | | matryoshka | 2000-03 | 1 | +-----+-----+-----+
```

Explanation:

In January, 2 LcPhones were sold. Please note that the product names are not case sensitive and may contain spaces. In February, 2 LCKeychains and 1 LCPhone were sold. In March, one matryoshka was sold.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

Oracle:

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

Pandas:

```
import pandas as pd  
  
def fix_name_format(sales: pd.DataFrame) -> pd.DataFrame:  
    ...
```

Solutions

MySQL Solution:

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