

# 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 | LCKeyCHAI | 2000-02-19 | | 5 | LCKeyChain | 2000-02-28 | |  
6 | Matryoshka | 2000-03-31 | +-----+-----+-----+

Output:

```
+-----+-----+-----+ | product_name | sale_date | total |
+-----+-----+-----+ | lckeychain | 2000-02 | 2 | | lphone | 2000-01 | 2 | | lphone |
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

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