SQL Schema

Table: Sales

+--------------+---------+

| Column Name | Type |

+--------------+---------+

| sale\_id | int |

| product\_name | varchar |

| sale\_date | date |

+--------------+---------+

sale\_id is the primary key 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 an SQL query 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 query result format is in the following example.

Sales

+------------+------------------+--------------+

| 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 |

+------------+------------------+--------------+

Result table:

+--------------+--------------+----------+

| product\_name | sale\_date | total |

+--------------+--------------+----------+

| lcphone   | 2000-01  | 2  |

| lckeychain | 2000-02   | 2  |

| lcphone | 2000-02   | 1  |

| matryoshka | 2000-03   | 1  |

+--------------+--------------+----------+

In January, 2 LcPhones were sold, please note that the product names are not case sensitive and may contain spaces.

In Februery, 2 LCKeychains and 1 LCPhone were sold.