

# Problem 3374: First Letter Capitalization II

## Problem Information

Difficulty: Hard

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

user\_content

+-----+-----+ | Column Name | Type | +-----+-----+ | content\_id | int | | content\_text| varchar | +-----+-----+ content\_id is the unique key for this table. Each row contains a unique ID and the corresponding text content.

Write a solution to transform the text in the

content\_text

column by applying the following rules:

Convert the

first letter

of each word to

uppercase

and the

remaining

letters to

lowercase

Special handling for words containing special characters:

For words connected with a hyphen

-

,

both parts

should be

capitalized

(

e.g.

, top-rated → Top-Rated)

All other

formatting

and

spacing

should remain

unchanged

Return

the result table that includes both the original

content\_text

and the modified text following the above rules

.

The result format is in the following example.

Example:

Input:

user\_content table:

		content_id	content_text
		1	hello world of SQL    2   the QUICK-brown fox    3
		modern-day DATA science    4   web-based FRONT-end development	

Output:

		content_id	original_text	converted_text
		1	hello world of SQL    2   the QUICK-brown fox    3	hello world of SQL   Hello World Of Sql    2   the QUICK-brown fox   The Quick-Brown Fox    3
		modern-day DATA science    4   web-based FRONT-end development	modern-day DATA science   Modern-Day Data Science    4   web-based FRONT-end development	modern-day DATA science   Modern-Day Data Science    4   web-based FRONT-end development   Web-Based Front-End Development

Explanation:

For content\_id = 1:

Each word's first letter is capitalized: "Hello World Of Sql"

For content\_id = 2:

Contains the hyphenated word "QUICK-brown" which becomes "Quick-Brown"

Other words follow normal capitalization rules

For content\_id = 3:

Hyphenated word "modern-day" becomes "Modern-Day"

"DATA" is converted to "Data"

For content\_id = 4:

Contains two hyphenated words: "web-based" → "Web-Based"

And "FRONT-end" → "Front-End"

Constraints:

context\_text

contains only English letters, and the characters in the list

['\ ', '\ ', '@', '-', '/', '^', ',']

## 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 capitalize_content(user_content: pd.DataFrame) -> pd.DataFrame:
```

## Solutions

### MySQL Solution:

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

### MS SQL Server Solution:

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

### PostgreSQL Solution:

```
-- Write your PostgreSQL query statement below
```

### Oracle Solution:

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

### Pandas Solution:

```
import pandas as pd

def capitalize_content(user_content: pd.DataFrame) -> pd.DataFrame:
```