

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 | Hello World Of Sql | | 2 | the QUICK-brown fox | The Quick-Brown Fox | | 3 |
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

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