

# Problem 3368: First Letter Capitalization

## 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

Keep all other letters in lowercase

Preserve all existing spaces

Note

: There will be no special character in

content\_text

.

Return

the result table that includes both the original

content\_text

and the modified text where each word starts with a capital letter

.

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   data science AND machine learning    4   TOP rated programming BOOKS	

Output:

	content_id	original_text	converted_text
1	1	hello world of SQL    2   the QUICK brown fox    3   data science AND machine learning    4   TOP rated programming BOOKS	Hello World Of Sql    2   the QUICK brown fox   The Quick Brown Fox    3   data science AND machine learning   Data Science And Machine Learning    4   TOP rated programming BOOKS   Top Rated Programming Books

Explanation:

For content\_id = 1:

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

For content\_id = 2:

Original mixed-case text is transformed to title case: The Quick Brown Fox

For content\_id = 3:

The word AND is converted to "And": "Data Science And Machine Learning"

For content\_id = 4:

Handles word TOP rated correctly: Top Rated

Converts BOOKS from all caps to title case: Books

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

## Solutions

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