

Problem List

DescriptionAcceptedEditorialSolutionsSubmissions

3368. First Letter CapitalizationPremiumSolved

HardTopics

SQL SchemaPandas Schema

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	hello world of SQL	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

Seen this question in a real interview before? 1/5

YesNo

Accepted 1,084/1.3K | Acceptance Rate 86.3%

Topics

Discussion (1)

Copyright © 2025 LeetCode. All rights reserved.

40 Online

Code

PandasAuto

```
1 import pandas as pd
2
3 def process_text(user_content: pd.DataFrame) -> pd.DataFrame:
4
5     # change to title case with title() method
6     user_content['converted_text'] = (
7         user_content.content_text.apply(lambda x: x.title())
8     )
9
10    # rename column per problem request
11    return user_content.rename(columns={'content_text': 'original_text'})
```

SavedLn 11, Col 5

TestcaseTest Result

AcceptedRuntime: 204 ms

Case 1

Input

user\_content =

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