

# Day 26 Working with inconsistencies in text data





## Two most common inconsistency in text data:

- Differences in the **case** of characters.
- **Spaces** in a string.

We can deal with these issues by using functions to change character case or remove spaces .



#### **Converting Case:**

Easiest ways to handle inconsistencies in case is to convert data to either all upper or all lower case.

```
SELECT lower('hElLo woRlD 1!');

>> hello world 1!

SELECT upper('hElLo woRlD 1!');

>> HELLO WORLD 1!
```

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### Trimming spaces:

The **trim function** can be used to remove spaces from one or both ends of a string.

```
Trim() trims
                    SELECT trim(' sql ');
spaces from
both ends.
                    >> 'sql'
rtrim() and
ltrim() trims
                    SELECT rtrim(' sql '),
spaces from
                    .....ltrim(' sql ');
end of string
and beginning
of string
respectively.
                        'sql'
                        'sql '
```

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#### Using ILIKE to take care of both:

Suppose, we want to count the occurrence of 'Apple' from the following set of inputs:

SELECT \*
FROM fruit;

	fav_fruit		
•	apple	<b>4</b>	#1
	Apple	<b>&lt;</b>	#2
	apple	<b>&lt;</b>	#3
	banana		
	banana		
	APPLES	<b>&lt;</b>	#4
	apple	<b>&lt;</b>	#5
	banana		
	apple	<b>&lt;</b>	#6
	BANANA		
	APPLE	<b>&lt;</b>	#7
	apple	<b>&lt;</b> ······	#8

There are 8 occurrences of 'Apple' inputted in 6 different ways.

#56daysofSQL



```
-- Using ILIKE

SELECT *
FROM fruit
-- ILIKE for case insensitive
WHERE fav_fruit ILIKE '%apple%';
```

#### **OUTPUT:**

```
fav_fruit
-----
apple
Apple
apple
APPLES
apple
apple
APPLE
```