

LOWER Function

All alphabetical characters in the input value are converted to lowercase in the output value.

Input can be a column reference or a string literal.

Wrangle vs. SQL: This function is part of Wrangle , a proprietary data transformation language. Wrangle is not SQL. For more information, see *Wrangle Language*.

Basic Usage

Column reference example:

```
lower(MyName)
```

Output: Returns the string value from the `MyName` column in lowercase.

String literal example:

```
lower('Hello, World')
```

Output: The string `hello, world` is returned.

Syntax and Arguments

```
lower(column_string)
```

Argument	Required?	Data Type	Description
column_string	Y	string	Name of the column or string literal to be applied to the function

For more information on syntax standards, see *Language Documentation Syntax Notes*.

column_string

Name of the column or string constant to be converted.

- Missing string or column values generate missing string results.
- String constants must be quoted ('Hello, World').
- Multiple columns and wildcards are not supported.

Usage Notes:

Required?	Data Type	Example Value
Yes	String literal or column reference	myColumn

Examples

Tip: For additional examples, see *Common Tasks*.

Example - uppercase, lowercase, propercase functions

This example demonstrates functions that can be used to change the case of String values.

Functions:

Item	Description
UPPER Function	All alphabetical characters in the input value are converted to uppercase in the output value.
LOWER Function	All alphabetical characters in the input value are converted to lowercase in the output value.
PROPER Function	Converts an input string to propercase. Input can be a column reference or a string literal.

Source:

In the following example, you can see a number of input values in the leftmost column. The output columns are blank.

input	uppercase	lowercase	propercase
AbCdEfGh IjKlMnO			
go West, young man!			
Oh, *(\$%(&! That HURT!			
A11 w0rk and n0 0play makes Jack a dull boy.			

Transformation:

To generate uppercase, lowercase, and propercase values in the output columns, use the following transforms:

Transformation Name	Edit column with formula
Parameter: Columns	uppercase
Parameter: Formula	UPPER(input)

Transformation Name	Edit column with formula
Parameter: Columns	lowercase
Parameter: Formula	LOWER(input)

Transformation Name	Edit column with formula
Parameter: Columns	propercase
Parameter: Formula	PROPER(input)

Results:

input	uppercase	lowercase	propercase
AbCdEfGh IjKlMnO	ABCDEFGH IJKLMNO	abcdefgh ijklmno	Abcdefgh Ijklmno
go West, young man!	GO WEST, YOUNG MAN!	go west, young man!	Go West, Young Man!

Oh, *(\$%(&! That HURT!	OH, *(\$%(&! THAT HURT!	oh, *(\$%(&! that hurt!	Oh, *(\$%(&! That Hurt!
A11 w0rk and n0 0play makes Jack a dull boy.	A11 WORK AND NO 0PLAY MAKES JACK A DULL BOY.	a11 w0rk and n0 0play makes jack a dull boy.	A11 W0rk And NO 0play Makes Jack A Dull Boy.