

Start-Tech Academy

LENGTH

LENGTH function returns the length of the specified string, expressed as the number of characters.





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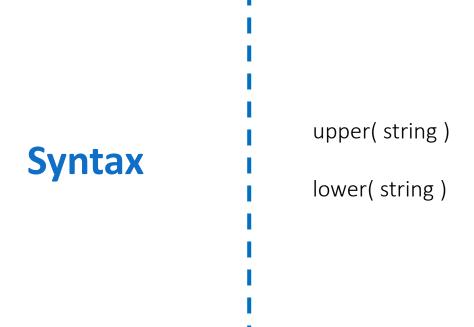
Example

SELECT Customer_name, Length (Customer_name) as characters FROM customer
WHERE age >30;



UPPER & LOWER

UPPER/ LOWER function converts all characters in the specified string to uppercase/ lowercase.





UPPER & LOWER

UPPER/ LOWER function converts all characters in the specified string to uppercase/ lowercase.



SELECT upper('Start-Tech Academy');

SELECT lower('Start-Tech Academy');



REPLACE

REPLACE function replaces all occurrences of a specified string



replace(string, from_substring, to_substring)

Replace function is case sensitive.



REPLACE

REPLACE function replaces all occurrences of a specified string



SELECT

Customer_name,

country,

Replace (country,'United States','US') AS country new

FROM customer;



TRIM, LTRIM & RTRIM

TRIM function removes all specified characters either from the beginning or the end of a string RTRIM function removes all specified characters from the right-hand side of a string LTRIM function removes all specified characters from the left-hand side of a string

Syntax

```
trim( [ leading | trailing | both ] [ trim_character ] from string )
rtrim( string, trim_character )
Itrim( string, trim_character )
```



TRIM, LTRIM & RTRIM

TRIM function removes all specified characters either from the beginning or the end of a string RTRIM function removes all specified characters from the right-hand side of a string LTRIM function removes all specified characters from the left-hand side of a string

```
SELECT trim(leading '' from ' Start-Tech Academy ');

SELECT trim(trailing '' from ' Start-Tech Academy ');

SELECT trim(both '' from ' Start-Tech Academy ');

SELECT trim(' Start-Tech Academy ');

SELECT rtrim(' Start-Tech Academy ', '');

SELECT ltrim(' Start-Tech Academy ', '');
```



CONCAT

|| operator allows you to concatenate 2 or more strings together



string1 || string2 || string_n



CONCAT

|| operator allows you to concatenate 2 or more strings together

```
SELECT

Customer_name,

city||','||state||','||country AS address

FROM customer;
```



SUBSTRING

SUBSTRING function allows you to extract a substring from a string



substring(string [from start_position] [for length])



SUBSTRING

SUBSTRING function allows you to extract a substring from a string

```
SELECT
        Customer id,
        Customer name,
        SUBSTRING (Customer_id FOR 2) AS cust_group
FROM customer
WHERE SUBSTRING(Customer id FOR 2) = 'AB';
SELECT
        Customer id,
        Customer_name,
        SUBSTRING (Customer id FROM 4 FOR 5) AS cust number
FROM customer
WHERE SUBSTRING(Customer_id FOR 2) = 'AB';
```



STRING AGGREGATOR

STRING_AGG concatenates input values into a string, separated by delimiter



string_agg (expression, delimiter)



STRING AGGREGATOR

STRING_AGG concatenates input values into a string, separated by delimiter

```
SELECT

order_id ,

STRING_AGG (product_id,', ')

FROM sales

GROUP BY order_id;
```

