



Start-Tech Academy

# LENGTH

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

## Syntax

`length( string )`



# LENGTH

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

## 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.

## Syntax

`upper( string )`

`lower( string )`

# UPPER & LOWER

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

## Example

```
SELECT upper('Start-Tech Academy');
```

```
SELECT lower('Start-Tech Academy');
```



# REPLACE

REPLACE function replaces all occurrences of a specified string

## Syntax

```
replace( string, from_substring, to_substring )
```

Replace function is case sensitive.



# REPLACE

REPLACE function replaces all occurrences of a specified string

## Example

```
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 )
```

```
ltrim( 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

## Example

```
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

## Syntax

`string1 || string2 || string_n`



# CONCAT

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

## Example

```
SELECT
    Customer_name,
    city || ', ' || state || ', ' || country AS address
FROM customer;
```



# SUBSTRING

SUBSTRING function allows you to extract a substring from a string

## Syntax

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



# SUBSTRING

SUBSTRING function allows you to extract a substring from a string

## Example

```
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

## Syntax

`string_agg (expression, delimiter)`



# STRING AGGREGATOR

STRING\_AGG concatenates input values into a string, separated by delimiter

## Example

```
SELECT
    order_id ,
    STRING_AGG (product_id,', ')
FROM sales
GROUP BY order_id;
```

