

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;
```