

## **String Operators**

## **Operator CONTAINS**

CONTAINS returns TRUE if the *SearchExpression* is present within the *SourceExpression*, otherwise it returns FALSE.

## Syntax:

```
>>-CONTAINS--(--SourceExpression--, --SearchExpression--) -----><
```

## Examples

```
CONTAINS('Hello World!', 'ello'); ---Returns TRUE CONTAINS('Hello World!', 'daisy');---Returns FALSE
```

#### **Operator ENDSWITH**

ENDSWITH returns TRUE if *SourceExpression* ends with *SearchExpression*, otherwise it returns FALSE.

## Syntax:



## Examples:

ENDSWITH('Hello World!', 'World!'); ---Returns TRUE

ENDSWITH('Hello World!', 'World'); ---Returns FALSE

#### **Operator STARTSWITH**

STARTSWITH returns TRUE if *SourceExpression*starts with *SearchExpression*, otherwise it returns FALSE.

#### Syntax:

```
>>-STARTSWITH--(--SourceExpression--, --SearchExpression--) -----><
```

#### **Examples:**

STARTSWITH('Hello World!', Hello'); ---Returns TRUE

STARTSWITH('Hello World!', 'World'); ---Returns FALSE



#### **Operator LEFT**

It returns a string consisting of the source string truncated to the LEFT given by the length expression.

## Syntax:

## Examples:

LEFT ('Hello', 2) ---returns 'He'

LEFT ('12345',3) ---returns '123'

#### **Operator RIGHT**

It returns a string consisting of the source string truncated to the RIGHT given by the length expression.

## Syntax:

## Examples:



RIGHT ('Hello', 2) ---returns 'lo'

RIGHT ('12345',3) ---returns '345'

#### **Operator LENGTH**

The LENGTH calculates the length of a string and returns an integer value.

#### Syntax:

## Examples:

LENGTH('Hello World!'); ---Returns 12

LENGTH("); ---Returns 0

#### **Operators LOWER and LCASE**

These both are same and return a string in which all uppercase letters get converted into corresponding lowercase letters.

Syntax:



#### OR

## Example:

LOWER('Mr Smith') --- Returns 'mr smith'

LCASE('ABCD') --- Returns 'abcd'

## **Operators UPPER and UCASE**

These both are same and return a string in which all uppercase letters get converted into corresponding lowercase letters.

#### Syntax:

OR



## Examples:

UPPER ('mr smith') ---Returns 'MR SMITH'

UCASE('abcd') --- Returns 'ABCD

#### **Operator LTRIM**

## Syntax:

>>-LTRIM-- (--source\_string--)-----><

Example:

LTRIM(' HELLO '); --- Returns 'Hello ' (i.e. space is removed from left).

#### **Operator RTRIM**

Syntax:

>>-RTRIM-- (--source\_string--)-----><



#### Example:

RTRIM ('HELLO'); --- Returns 'Hello' (i.e. space is removed from right).

#### **Operator TRIM**

## Syntax:

## Examples:

TRIM(TRAILING 'b' FROM 'aaabBb') ---Returns 'aaabB'
TRIM (LEADING FROM ' Hello ') ---Returns 'Hello ';



Above example is same is LTRIM (' Hello ')

TRIM(' Hello ') ---Returns 'Hello' (i.e removes both the spaces)

TRIM('b' FROM 'bbbaaabbb') --returns 'aaa'

#### **Operator OVERLAY**

It replaces part of a string with a substring.

## Syntax:

## Example:

OVERLAY ('ABCDEFGHIJ' PLACING '1234' FROM 4 FOR 3) -Returns 'ABC1234GHIJ'

Meaning of above line is, it goes to the 4<sup>th</sup> position ('D') from start and replaces next 3 strings ('DEF') from 4<sup>th</sup> position with '1234'.



#### **Operator POSITION**

It returns the position of one string within another.

## Syntax:

```
POSITION('Village' IN 'HursleyVillage'); returns 9
POSITION('Town' IN 'HursleyVillage'); returns 0

POSITION ('B' IN 'ABCABCABCABCABC');-> returns 2
POSITION ('D' IN 'ABCABCABCABCABC');-> returns 0

POSITION ('A' IN 'ABCABCABCABCABC' FROM 4);-> returns 4
```

POSITION ('C' IN 'ABCABCABCABCABC' FROM 2);-> returns 3



POSITION ('B' IN 'ABCABCABCABCABC' REPEAT 2);-> returns 5
POSITION ('C' IN 'ABCABCABCABCABC' REPEAT 4);-> returns 12

POSITION ('A' IN 'ABCABCABCABCABC' FROM 4 REPEAT 2);-> returns 7 POSITION ('AB' IN 'ABCABCABCABCABC' FROM 2 REPEAT 3);-> returns 10

POSITION ('A' IN 'ABCABCABCABCABC' REPEAT -2);-> returns 10
POSITION ('BC' IN 'ABCABCABCABCABC' FROM 2 REPEAT -3);-> returns 5

#### **Operator REPLACE**

It replaces parts of a string with supplied substrings.

#### Syntax:

## Examples:

REPLACE('ABCDABCDA', 'A', 'AA') --- Returns AABCDAABCDAA
REPLACE('AAAABCDEFGHAAAABCDEFGH', 'AA', 'A') --- Returns AABCDEFGHAABCDEFGH



# REPLACE('AAAAABCDEFGHAAAABCDEFGH', 'AA', 'XYZ') ---Returns XYZXYZABCDEFGHXYZXYZBCDEFGH

#### **Operator REPLICATE**

It returns a string made up of multiple copies of a supplied string.

Syntax:

>>-REPLICATE--(--PatternStringExpression--,--CountNumericExpression--)-><

Example:

REPLICATE ('a',5) --- Returns 'aaaaa'



#### **Operator SUBSTRING**

It extracts characters from a string to create another string.

## Syntax:

## Examples:

```
SUBSTRING('HelloWorld!' FROM 7 FOR 4) -Returns 'Worl'

SUBSTRING('HelloWorld!' BEFORE 'World'); --Returns 'Hello '

SUBSTRING('HelloWorld!' BEFORE 'World' FOR 3); --Returns 'lo '

SUBSTRING('HelloWorld!' BEFORE 'e'); --Returns 'H'

SUBSTRING('HelloWorld!' AFTER 'World'); -- Returns '!'
```



SUBSTRING('HelloWorld!' AFTER 'W' FOR 2); -- Returns 'or'
SUBSTRING('HelloWorld!' AFTER 'P'); -- Returns ';