

## CHARACTER CODES

### ASCII ('C')

Returns the ASCII code value of the leftmost character of 'C'

ASCII ('A') = 65

ASCII ('BEE') = 66

### CHAR (A)

Converts an integer ASCII code A to a character

CHAR (65) = 'A'

CHAR (1000) = NULL

### UNICODE (A)

Returns the int value for the first character of 'A'

UNICODE('A') = 65

### NCHAR (A)

Returns the Unicode character with the specified integer code A

NCHAR (66000) = NULL

NCHAR (8) = ''

NCHAR ('8') = ''

## SEARCH & REPLACE

### CHARINDEX ('A', 'B', [, S])

Searches 'B' for 'A' and returns its starting position if found. The search starts at S

CHARINDEX ('Z', 'HELLO') = 0

CHARINDEX ('H', 'HELLO') = 1

CHARINDEX ('OR', 'WORLD') = 2

CHARINDEX ('L', 'HELLO', 4) = 4

### REPLACE ('A', 'B', 'C')

Replaces in 'A' all occurrences of string 'B' with string 'C'

REPLACE('HELLOW', NULL, '')=NULL

REPLACE('HELLOW', '', '\_')='HELLOW'

REPLACE('HELLOW', 'ELLOW', 'I')='HI'

REPLACE('HELLOW', 'L', 1) = 'HE11OW'

### PATINDEX ('%pattern%', 'A')

Returns starting position of the first occurrence of a %pattern% in string 'A'

PATINDEX ('H', 'HELLO') = 0

PATINDEX ('H%', 'HELLO') = 1

PATINDEX ('%L\_%', 'HELLO') = 3

PATINDEX ('%L\_', 'HELLO') = 4

PATINDEX ('Z', 'HELLO') = 0

PATINDEX ('%A[0-9]%', 'AA1A') = 2

PATINDEX ('%L[^L]%', 'HELLO') = 4

### STUFF ('A', S, L, 'B')

Replaces L characters of 'A' starting at S with 'B'

STUFF('HELLOW', 2, 5, 'I') = 'HI'

STUFF('HELLOW', 2, 15, 'I') = 'HI'

STUFF('HELLOW', 20, 1, 'I') = NULL

STUFF('HELLOW', 0, 1, 'I') = NULL

STUFF('HELLOW', 1, 0, 'I') = 'IHELLOW'

## SOUNDEX & OTHER

### SOUNDEX ('A')

Returns a four-character (SOUNDEX) code to evaluate the similarity of two strings

SOUNDEX ('Smith') = 'S530'

SOUNDEX ('Smythe') = 'S530'

### DIFFERENCE ('A', 'B')

Returns an integer value that indicates the difference between the SOUNDEX of 'A' and 'B'

DIFFERENCE('GREEN', 'GREENE') = 4

### LEN ('A')

Returns length of 'A', excluding trailing blanks

LEN ('HELLOW WORD') = 11

LEN ('HELLOW ') = 6

LEN (12) = 2

LEN ('') = 0

## STRING EXTRACTION

### SUBSTRING ('A', start, length)

Returns L characters of 'A' starting at S

SUBSTRING('HELLOW', 2, 1) = 'E'

SUBSTRING('HELLOW', 5, 10) = 'OW'

SUBSTRING('HELLOW', 10, 1) = ''

SUBSTRING('HELLOW', 0, 1) = ''

SUBSTRING('HELLOW', 1, 0) = ''

### LEFT ('A', B) / RIGHT ('A', B)

Returns the left/right part of 'A' with the specified number B

RIGHT ('', 1) = ''

LEFT ('HI', 0) = ''

RIGHT ('HI', 3) = 'HI'

RIGHT ('HELLOW WORLD', 5) = 'WORLD'

LEFT ('HELLOW WORLD', 6) = 'HELLOW'

## STRING GENERATION

### SPACE (A)

Returns a string of A spaces

SPACE(2) = ' '

### REPLICATE ('A', B)

Repeats a string value 'A' specified number of times B

REPLICATE ('0', 4) = '0000'

REPLICATE ('-', 0) = ''

REPLICATE ('-', NULL) = NULL

### STR (A [,length [, decimal]])

Converts A number to string

STR (2.234) = ' 2'

STR (2.234, 4) = ' 2'

STR (2.234, 4, 2) = '2.23'

STR (2.234, 6, 2) = ' 2.23'

## STRING MANIPULATION

### CONCAT ('A', 'B' [, 'C'])

Returns a string that is the result of concatenating two or more string values

CONCAT('HELLO')=ERROR

CONCAT(NULL, NULL) = ''

CONCAT('HI', ' ', 'WORLD')='HI WORLD'

CONCAT(12, NULL, 34) = '1234'

CONCAT(2014, 12, 31) = '20141231'

### LOWER ('A') / UPPER ('A')

Makes 'A' lowercase/uppercase

LOWER ('HI') = 'hi'

UPPER ('hi') = 'HI'

### LTRIM ('A') / RTRIM ('A')

Returns 'A' removing leading/trailing blanks

LTRIM (' HI ') = 'HI'

LTRIM (' ') = ''

RTRIM(' HI ') = ' HI'

### QUOTENAME ('A', ['B'])

Makes 'A' a valid SQL Server using 'B' delimiter

QUOTENAME ('TB NAME')=[TB NAME]

QUOTENAME ('TB NAME', ']')=[TB NAME]

QUOTENAME ('TB NAME', '"')="TB NAME"

QUOTENAME('abc[]def')=[abc[]]def]

QUOTENAME ('TB NAME', ''')='TB NAME'

### REVERSE ('A')

Returns the reverse order of a string value

REVERSE('HELLOW') = 'WOLLEH'

REVERSE(12) = 21

