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### *String Functions*

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# SQL Server Functions

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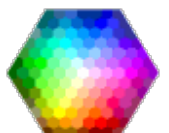
SQL Server has many built-in functions.

This reference contains string, numeric, date, conversion, and some advanced functions in SQL Server.

## SQL Server String Functions

Function	Description
<a href="#">ASCII</a>	Returns the ASCII value for the specific character
<a href="#">CHAR</a>	Returns the character based on the ASCII code
<a href="#">CHARINDEX</a>	Returns the position of a substring in a string
<a href="#">CONCAT</a>	Adds two or more strings together
<a href="#">Concat with ±</a>	Adds two or more strings together
<a href="#">CONCAT_WS</a>	Adds two or more strings

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	together with a separator
<u>DATALENGTH</u>	Returns the number of bytes used to represent an expression
<u>DIFFERENCE</u>	Compares two SOUNDEX values, and returns an integer value
<u>FORMAT</u>	Formats a value with the specified format
<u>LEFT</u>	Extracts a number of characters from a string (starting from left)
<u>LEN</u>	Returns the length of a string
<u>LOWER</u>	Converts a string to lower-case
<u>LTRIM</u>	Removes leading spaces from a string
<u>NCHAR</u>	Returns the Unicode character based on the number code
<u>PATINDEX</u>	Returns the position of a pattern in a string
<u>QUOTENAME</u>	Returns a Unicode string with delimiters added to make the string a valid SQL Server delimited identifier
<u>REPLACE</u>	Replaces all occurrences of a substring within a string, with a new substring
<u>REPLICATE</u>	Repeats a string a specified number of times
<u>REVERSE</u>	Reverses a string and returns the result
<u>RIGHT</u>	Extracts a number of characters from a string (starting from right)
<u>RTRIM</u>	Removes trailing spaces from a string

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<u>SOUNDEX</u>	Returns a four-character code to evaluate the similarity of two strings
<u>SPACE</u>	Returns a string of the specified number of space characters
<u>STR</u>	Returns a number as string
<u>STUFF</u>	Deletes a part of a string and then inserts another part into the string, starting at a specified position
<u>SUBSTRING</u>	Extracts some characters from a string
<u>TRANSLATE</u>	Returns the string from the first argument after the characters specified in the second argument are translated into the characters specified in the third argument.
<u>TRIM</u>	Removes leading and trailing spaces (or other specified characters) from a string
<u>UNICODE</u>	Returns the Unicode value for the first character of the input expression
<u>UPPER</u>	Converts a string to upper-case

## SQL Server Math/Numeric Functions

Function	Description
<u>ABS</u>	Returns the absolute value of a number
<u>ACOS</u>	Returns the arc cosine of a number

<u>ASIN</u>	Returns the arc sine of a number
<u>ATAN</u>	Returns the arc tangent of a number
<u>ATN2</u>	Returns the arc tangent of two numbers
<u>AVG</u>	Returns the average value of an expression
<u>CEILING</u>	Returns the smallest integer value that is $\geq$ a number
<u>COUNT</u>	Returns the number of records returned by a select query
<u>COS</u>	Returns the cosine of a number
<u>COT</u>	Returns the cotangent of a number
<u>DEGREES</u>	Converts a value in radians to degrees
<u>EXP</u>	Returns e raised to the power of a specified number
<u>FLOOR</u>	Returns the largest integer value that is $\leq$ to a number
<u>LOG</u>	Returns the natural logarithm of a number, or the logarithm of a number to a specified base
<u>LOG10</u>	Returns the natural logarithm of a number to base 10
<u>MAX</u>	Returns the maximum value in a set of values
<u>MIN</u>	Returns the minimum value in a set of values
<u>PI</u>	Returns the value of PI
<u>POWER</u>	Returns the value of a number raised to the power of another number

<u>RADIANS</u>	Converts a degree value into radians
<u>RAND</u>	Returns a random number
<u>ROUND</u>	Rounds a number to a specified number of decimal places
<u>SIGN</u>	Returns the sign of a number
<u>SIN</u>	Returns the sine of a number
<u>SQRT</u>	Returns the square root of a number
<u>SQUARE</u>	Returns the square of a number
<u>SUM</u>	Calculates the sum of a set of values
<u>TAN</u>	Returns the tangent of a number

## SQL Server Date Functions

Function	Description
<u>CURRENT_TIMESTAMP</u>	Returns the current date and time
<u>DATEADD</u>	Adds a time/date interval to a date and then returns the date
<u>DATEDIFF</u>	Returns the difference between two dates
<u>DATEFROMPARTS</u>	Returns a date from the specified parts (year, month, and day values)
<u>DATENAME</u>	Returns a specified part of a date (as string)
<u>DATEPART</u>	Returns a specified part

	of a date (as integer)
<u>DAY</u>	Returns the day of the month for a specified date
<u>GETDATE</u>	Returns the current database system date and time
<u>GETUTCDATE</u>	Returns the current database system UTC date and time
<u>ISDATE</u>	Checks an expression and returns 1 if it is a valid date, otherwise 0
<u>MONTH</u>	Returns the month part for a specified date (a number from 1 to 12)
<u>SYSDATETIME</u>	Returns the date and time of the SQL Server
<u>YEAR</u>	Returns the year part for a specified date

## SQL Server Advanced Functions

Function	Description
<u>CAST</u>	Converts a value (of any type) into a specified datatype
<u>COALESCE</u>	Returns the first non-null value in a list
<u>CONVERT</u>	Converts a value (of any type) into a specified datatype

<u>CURRENT_USER</u>	Returns the name of the current user in the SQL Server database
<u>IIF</u>	Returns a value if a condition is TRUE, or another value if a condition is FALSE
<u>ISNULL</u>	Return a specified value if the expression is NULL, otherwise return the expression
<u>ISNUMERIC</u>	Tests whether an expression is numeric
<u>NULLIF</u>	Returns NULL if two expressions are equal
<u>SESSION_USER</u>	Returns the name of the current user in the SQL Server database
<u>SESSIONPROPERTY</u>	Returns the session settings for a specified option
<u>SYSTEM_USER</u>	Returns the login name for the current user
<u>USER_NAME</u>	Returns the database user name based on the specified id

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