

SQL Server has many built-in functions.

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

## SQL Server String Functions

<b>Function</b>	<b>Description</b>
<u>ASCII</u>	Returns the number code that represents the specific character
<u>CHAR</u>	Returns the ASCII character based on the number code
<u>CHARINDEX</u>	Returns the location of a substring in a string
<u>CONCAT</u>	Concatenates two or more strings together
<u>Concat with +</u>	Concatenates two or more strings together
<u>DATALength</u>	Returns the length of an expression (in bytes)
<u>LEFT</u>	Extracts a substring from a string (starting from left)
<u>LEN</u>	Returns the length of the specified 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 location of a pattern in a string
<u>REPLACE</u>	Replaces a sequence of characters in a string with another set of characters
<u>RIGHT</u>	Extracts a substring from a string (starting from right)
<u>RTRIM</u>	Removes trailing spaces from a string
<u>SPACE</u>	Returns a string with a specified number of spaces
<u>STR</u>	Returns a string representation of a number

<u>STUFF</u>	Deletes a sequence of characters from a string and then inserts another sequence of characters into the string, starting at a specified position
<u>SUBSTRING</u>	Extracts a substring from a string
<u>UPPER</u>	Converts a string to upper-case

## SQL Server Numeric Functions

<b>Function</b>	<b>Description</b>
<u>ABS</u>	Returns the absolute value of a number
<u>AVG</u>	Returns the average value of an expression
<u>CEILING</u>	Returns the smallest integer value that is greater than or equal to a number
<u>COUNT</u>	Returns the count of an expression
<u>FLOOR</u>	Returns the largest integer value that is equal to or less than a number
<u>MAX</u>	Returns the maximum value of an expression
<u>MIN</u>	Returns the minimum value of an expression
<u>RAND</u>	Returns a random number or a random number within a range
<u>ROUND</u>	Returns a number rounded to a certain number of decimal places
<u>SIGN</u>	Returns a value indicating the sign of a number
<u>SUM</u>	Returns the summed value of an expression

## SQL Server Date Functions

Function	Description
<u>CURRENT_TIMESTAMP</u>	Returns the current date and time
<u>DATEADD</u>	Returns a date after a certain time/date interval has been added
<u>DATEDIFF</u>	Returns the difference between two date values, based on the interval specified
<u>DATENAME</u>	Returns a specified part of a given date, as a string value
<u>DATEPART</u>	Returns a specified part of a given date, as an integer value
<u>DAY</u>	Returns the day of the month (from 1 to 31) for a given date
<u>GETDATE</u>	Returns the current date and time
<u>GETUTCDATE</u>	Returns the current UTC date and time
<u>MONTH</u>	Returns the month (from 1 to 12) for a given date
<u>YEAR</u>	Returns the year (as a four-digit number) for a given date

## SQL Server Conversion Functions

Function	Description
<u>CAST</u>	Converts an expression from one data type to another
<u>CONVERT</u>	Converts an expression from one data type to another

## SQL Server Advanced Functions

Function	Description
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<u>COALESCE</u>	Returns the first non-null expression in a list
<u>CURRENT_USER</u>	Returns the name of the current user in the SQL Server database
<u>ISDATE</u>	Returns 1 if the expression is a valid date, otherwise 0
<u>ISNULL</u>	Lets you return an alternative value when an expression is NULL
<u>ISNUMERIC</u>	Returns 1 if the expression is a valid number, otherwise 0
<u>NULLIF</u>	Compares two expressions
<u>SESSION_USER</u>	Returns the user name of the current session in the SQL Server database
<u>SESSIONPROPERTY</u>	Returns the setting for a specified option of a session
<u>SYSTEM_USER</u>	Returns the login name information for the current user in the SQL Server database
<u>USER_NAME</u>	Returns the user name in the SQL Server database