

[SQL Drop DB](#)
[SQL Backup DB](#)
[SQL Create Table](#)
[SQL Drop Table](#)
[SQL Alter Table](#)
[SQL Constraints](#)
[SQL Not Null](#)
[SQL Unique](#)
[SQL Primary Key](#)
[SQL Foreign Key](#)
[SQL Check](#)
[SQL Default](#)
[SQL Index](#)
[SQL Auto Increment](#)
[SQL Dates](#)
[SQL Views](#)
[SQL Injection](#)
[SQL Hosting](#)

SQL References

[SQL Keywords](#)
[MySQL Functions](#)
[SQL Server Functions](#)
String Functions
[ASCII](#)
[CHAR](#)
[CHARINDEX](#)
[CONCAT](#)
[Concat with +](#)
[CONCAT_WS](#)
[DATALENGTH](#)
[DIFFERENCE](#)
[FORMAT](#)
[LEFT](#)
[LEN](#)

SQL Server Functions

[◀ Previous](#)
[Next ▶](#)

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
ASCII	Returns the ASCII value for the specific character
CHAR	Returns the character based on the ASCII code
CHARINDEX	Returns the position of a substring in a string
CONCAT	Adds two or more strings together
Concat with +	Adds two or more strings together
CONCAT_WS	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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 Accordior
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 Navigatic
 Top
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 Bars
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 Tooltips
 Slideshov
 Filter
 List
 Sort
 List

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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

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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

[◀ Previous](#)[Next ▶](#)

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