



MySQL Functions

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MySQL has many built-in functions.

This reference contains string, numeric, date, and some advanced functions in MySQL.

MySQL String Functions

| Function | Description |
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| <u>ASCII</u> | Returns the ASCII value for the specific character |
| <u>CHAR_LENGTH</u> | Returns the length of a string (in characters) |
| <u>CHARACTER_LENGTH</u> | Returns the length of a string (in characters) |

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| <u>CONCAT</u> | Adds two or more expressions together |
| <u>CONCAT_WS</u> | Adds two or more expressions together with a separator |
| <u>FIELD</u> | Returns the index position of a value in a list of values |
| <u>FIND_IN_SET</u> | Returns the position of a string within a list of strings |
| <u>FORMAT</u> | Formats a number to a format like "#,###,###.##", rounded to a specified number of decimal places |
| <u>INSERT</u> | Inserts a string within a string at the specified position and for a certain number of characters |
| <u>INSTR</u> | Returns the position of the first occurrence of a string in another string |
| <u>LCASE</u> | Converts a string to lower-case |
| <u>LEFT</u> | Extracts a number of characters from a string (starting from left) |
| <u>LENGTH</u> | Returns the length of a string (in bytes) |
| <u>LOCATE</u> | Returns the position of the first occurrence of a substring in a string |
| <u>LOWER</u> | Converts a string to lower-case |
| <u>LPAD</u> | Left-pads a string with another string, to a certain length |
| <u>LTRIM</u> | Removes leading spaces from a string |
| <u>MID</u> | Extracts a substring from a string (starting at any position) |
| <u>POSITION</u> | Returns the position of the first occurrence of a substring in a string |
| <u>REPEAT</u> | Repeats a string as many times as specified |

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| <u>REPLACE</u> | Replaces all occurrences of a substring within a string, with a new substring |
| <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>RPAD</u> | Right-pads a string with another string, to a certain length |
| <u>RTRIM</u> | Removes trailing spaces from a string |
| <u>SPACE</u> | Returns a string of the specified number of space characters |
| <u>STRCMP</u> | Compares two strings |
| <u>SUBSTR</u> | Extracts a substring from a string (starting at any position) |
| <u>SUBSTRING</u> | Extracts a substring from a string (starting at any position) |
| <u>SUBSTRING_INDEX</u> | Returns a substring of a string before a specified number of delimiter occurs |
| <u>TRIM</u> | Removes leading and trailing spaces from a string |
| <u>UCASE</u> | Converts a string to upper-case |
| <u>UPPER</u> | Converts a string to upper-case |

MySQL Numeric Functions

| Function | Description |
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| <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 one or two numbers |
| <u>ATAN2</u> | Returns the arc tangent of two numbers |
| <u>AVG</u> | Returns the average value of an expression |
| <u>CEIL</u> | Returns the smallest integer value that is \geq to a number |
| <u>CEILING</u> | Returns the smallest integer value that is \geq to a number |
| <u>COS</u> | Returns the cosine of a number |
| <u>COT</u> | Returns the cotangent of a number |
| <u>COUNT</u> | Returns the number of records returned by a select query |
| <u>DEGREES</u> | Converts a value in radians to degrees |
| <u>DIV</u> | Used for integer division |
| <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>GREATEST</u> | Returns the greatest value of the list of arguments |
| <u>LEAST</u> | Returns the smallest value of the list of arguments |
| <u>LN</u> | Returns the natural logarithm of a number |

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| <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>LOG2</u> | Returns the natural logarithm of a number to base 2 |
| <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>MOD</u> | Returns the remainder of a number divided by another number |
| <u>PI</u> | Returns the value of PI |
| <u>POW</u> | Returns the value of a number raised to the power of another number |
| <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>SUM</u> | Calculates the sum of a set of values |
| <u>TAN</u> | Returns the tangent of a number |

TRUNCATE

Truncates a number to the specified number of decimal places

MySQL Date Functions

| Function | Description |
|--------------------------|--|
| <u>ADDDATE</u> | Adds a time/date interval to a date and then returns the date |
| <u>ADDTIME</u> | Adds a time interval to a time/datetime and then returns the time/datetime |
| <u>CURDATE</u> | Returns the current date |
| <u>CURRENT_DATE</u> | Returns the current date |
| <u>CURRENT_TIME</u> | Returns the current time |
| <u>CURRENT_TIMESTAMP</u> | Returns the current date and time |
| <u>CURTIME</u> | Returns the current time |
| <u>DATE</u> | Extracts the date part from a datetime expression |
| <u>DATEDIFF</u> | Returns the number of days between two date values |
| <u>DATE_ADD</u> | Adds a time/date interval to a date and then returns the date |
| <u>DATE_FORMAT</u> | Formats a date |
| <u>DATE_SUB</u> | Subtracts a time/date interval from a date and then returns the date |
| <u>DAY</u> | Returns the day of the month for a given date |

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| <u>DAYNAME</u> | Returns the weekday name for a given date |
| <u>DAYOFMONTH</u> | Returns the day of the month for a given date |
| <u>DAYOFWEEK</u> | Returns the weekday index for a given date |
| <u>DAYOFYEAR</u> | Returns the day of the year for a given date |
| <u>EXTRACT</u> | Extracts a part from a given date |
| <u>FROM_DAYS</u> | Returns a date from a numeric datevalue |
| <u>HOUR</u> | Returns the hour part for a given date |
| <u>LAST_DAY</u> | Extracts the last day of the month for a given date |
| <u>LOCALTIME</u> | Returns the current date and time |
| <u>LOCALTIMESTAMP</u> | Returns the current date and time |
| <u>MAKEDATE</u> | Creates and returns a date based on a year and a number of days value |
| <u>MAKETIME</u> | Creates and returns a time based on an hour, minute, and second value |
| <u>MICROSECOND</u> | Returns the microsecond part of a time/datetime |
| <u>MINUTE</u> | Returns the minute part of a time/datetime |
| <u>MONTH</u> | Returns the month part for a given date |
| <u>MONTHNAME</u> | Returns the name of the month for a given date |
| <u>NOW</u> | Returns the current date and time |
| <u>PERIOD_ADD</u> | Adds a specified number of months to a period |

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| <u>PERIOD_DIFF</u> | Returns the difference between two periods |
| <u>QUARTER</u> | Returns the quarter of the year for a given date value |
| <u>SECOND</u> | Returns the seconds part of a time/datetime |
| <u>SEC_TO_TIME</u> | Returns a time value based on the specified seconds |
| <u>STR_TO_DATE</u> | Returns a date based on a string and a format |
| <u>SUBDATE</u> | Subtracts a time/date interval from a date and then returns the date |
| <u>SUBTIME</u> | Subtracts a time interval from a datetime and then returns the time/datetime |
| <u>SYSDATE</u> | Returns the current date and time |
| <u>TIME</u> | Extracts the time part from a given time/datetime |
| <u>TIME_FORMAT</u> | Formats a time by a specified format |
| <u>TIME_TO_SEC</u> | Converts a time value into seconds |
| <u>TIMEDIFF</u> | Returns the difference between two time/datetime expressions |
| <u>TIMESTAMP</u> | Returns a datetime value based on a date or datetime value |
| <u>TO_DAYS</u> | Returns the number of days between a date and date "0000-00-00" |
| <u>WEEK</u> | Returns the week number for a given date |
| <u>WEEKDAY</u> | Returns the weekday number for a given date |
| <u>WEEKOFYEAR</u> | Returns the week number for a given date |
| <u>YEAR</u> | Returns the year part for a given date |

YEARWEEK

Returns the year and week number for a given date

MySQL Advanced Functions

| Function | Description |
|----------------------|---|
| <u>BIN</u> | Returns a binary representation of a number |
| <u>BINARY</u> | Converts a value to a binary string |
| <u>CASE</u> | Goes through conditions and return a value when the first condition is met |
| <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>CONNECTION_ID</u> | Returns the unique connection ID for the current connection |
| <u>CONV</u> | Converts a number from one numeric base system to another |
| <u>CONVERT</u> | Converts a value into the specified datatype or character set |
| <u>CURRENT_USER</u> | Returns the user name and host name for the MySQL account that the server used to authenticate the current client |
| <u>DATABASE</u> | Returns the name of the current database |
| <u>IF</u> | Returns a value if a condition is TRUE, or another value if a condition is FALSE |
| <u>IFNULL</u> | Return a specified value if the expression is NULL, otherwise return the expression |
| <u>ISNULL</u> | Returns 1 or 0 depending on whether an expression is NULL |

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| <u>LAST_INSERT_ID</u> | Returns the AUTO_INCREMENT id of the last row that has been inserted or updated in a table |
| <u>NULLIF</u> | Compares two expressions and returns NULL if they are equal. Otherwise, the first expression is returned |
| <u>SESSION_USER</u> | Returns the current MySQL user name and host name |
| <u>SYSTEM_USER</u> | Returns the current MySQL user name and host name |
| <u>USER</u> | Returns the current MySQL user name and host name |
| <u>VERSION</u> | Returns the current version of the MySQL database |

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