

MySQL Functions

MySQL Functions

MySQL String Functions

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

Function	Description
POSITION	Returns the position of the first occurrence of a substring in a string
REPEAT	Repeats a string as many times as specified
REPLACE	Replaces all occurrences of a substring within a string, with a new substring
REVERSE	Reverses a string and returns the result
RIGHT	Extracts a number of characters from a string (starting from right)
RPAD	Right-pads a string with another string, to a certain length
RTRIM	Removes trailing spaces from a string
SPACE	Returns a string of the specified number of space characters
STRCMP	Compares two strings
SUBSTR	Extracts a substring from a string (starting at any position)
SUBSTRING	Extracts a substring from a string (starting at any position)
SUBSTRING_INDEX	Returns a substring of a string before a specified number of delimiter occurs
TRIM	Removes leading and trailing spaces from a string
UCASE	Converts a string to upper-case
UPPER	Converts a string to upper-case

MySQL Numeric Functions

Function	Description
ABS	Returns the absolute value of a number
ACOS	Returns the arc cosine of a number
ASIN	Returns the arc sine of a number
ATAN	Returns the arc tangent of one or two numbers
ATAN2	Returns the arc tangent of two numbers
AVG	Returns the average value of an expression

Function	Description
<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
<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

Function	Description
SIN	Returns the sine of a number
SQRT	Returns the square root of a number
SUM	Calculates the sum of a set of values
TAN	Returns the tangent of a number
TRUNCATE	Truncates a number to the specified number of decimal places

MySQL Date Functions

Function	Description
ADDDATE	Adds a time/date interval to a date and then returns the date
ADDTIME	Adds a time interval to a time/datetime and then returns the time/datetime
CURDATE	Returns the current date
CURRENT_DATE	Returns the current date
CURRENT_TIME	Returns the current time
CURRENT_TIMESTAMP	Returns the current date and time
CURTIME	Returns the current time
DATE	Extracts the date part from a datetime expression
DATEDIFF	Returns the number of days between two date values
DATE_ADD	Adds a time/date interval to a date and then returns the date
DATE_FORMAT	Formats a date
DATE_SUB	Subtracts a time/date interval from a date and then returns the date
DAY	Returns the day of the month for a given date
DAYNAME	Returns the weekday name for a given date
DAYOFMONTH	Returns the day of the month for a given date
DAYOFWEEK	Returns the weekday index for a given date
DAYOFYEAR	Returns the day of the year for a given date

Function	Description
<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
<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

Function	Description
TIME_FORMAT	Formats a time by a specified format
TIME_TO_SEC	Converts a time value into seconds
TIMEDIFF	Returns the difference between two time/datetime expressions
TIMESTAMP	Returns a datetime value based on a date or datetime value
TO_DAYS	Returns the number of days between a date and date "0000-00-00"
WEEK	Returns the week number for a given date
WEEKDAY	Returns the weekday number for a given date
WEEKOFYEAR	Returns the week number for a given date
YEAR	Returns the year part for a given date
YEARWEEK	Returns the year and week number for a given date

MySQL Advanced Functions

Function	Description
BIN	Returns a binary representation of a number
BINARY	Converts a value to a binary string
CASE	Goes through conditions and return a value when the first condition is met
CAST	Converts a value (of any type) into a specified datatype
COALESCE	Returns the first non-null value in a list
CONNECTION_ID	Returns the unique connection ID for the current connection
CONV	Converts a number from one numeric base system to another
CONVERT	Converts a value into the specified datatype or character set
CURRENT_USER	Returns the user name and host name for the MySQL account that the server used to authenticate the current client
DATABASE	Returns the name of the current database
IF	Returns a value if a condition is TRUE, or another value if a condition is FALSE

Function	Description
<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
<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