**STRING FUNCTIONS:**

| ***Name*** | ***Description*** |
| --- | --- |
| ASCII() | Return numeric value of left-most character |
| BIN() | Return a string representation of the argument |
| BIT\_LENGTH() | Return length of argument in bits |
| CHAR\_LENGTH() | Return number of characters in argument |
| CHAR() | Return the character for each integer passed |
| CHARACTER\_LENGTH() | A synonym for CHAR\_LENGTH() |
| CONCAT\_WS() | Return concatenate with separator |
| CONCAT() | Return concatenated string |
| ELT() | Return string at index number |
| EXPORT\_SET() | Return a string such that for every bit set in the value bits, you get an on string and for every unset bit, you get an off string |
| FIELD() | Return the index (position) of the first argument in the subsequent arguments |
| FIND\_IN\_SET() | Return the index position of the first argument within the second argument |
| FORMAT() | Return a number formatted to specified number of decimal places |
| HEX() | Return a hexadecimal representation of a decimal or string value |
| INSERT() | Insert a substring at the specified position up to the specified number of characters |
| INSTR() | Return the index of the first occurrence of substring |
| LCASE() | Synonym for LOWER() |
| LEFT() | Return the leftmost number of characters as specified |
| LENGTH() | Return the length of a string in bytes |
| LIKE | Simple pattern matching |
| LOAD\_FILE() | Load the named file |
| LOCATE() | Return the position of the first occurrence of substring |
| LOWER() | Return the argument in lowercase |
| LPAD() | Return the string argument, left-padded with the specified string |
| LTRIM() | Remove leading spaces |
| MAKE\_SET() | Return a set of comma-separated strings that have the corresponding bit in bits set |
| MATCH | Perform full-text search |
| MID() | Return a substring starting from the specified position |
| NOT LIKE | Negation of simple pattern matching |
| NOT REGEXP | Negation of REGEXP |
| OCTET\_LENGTH() | A synonym for LENGTH() |
| ORD() | Return character code for leftmost character of the argument |
| POSITION() | A synonym for LOCATE() |
| QUOTE() | Escape the argument for use in an SQL statement |
| REGEXP | Pattern matching using regular expressions |
| REPEAT() | Repeat a string the specified number of times |
| REPLACE() | Replace occurrences of a specified string |
| REVERSE() | Reverse the characters in a string |
| RIGHT() | Return the specified rightmost number of characters |
| RLIKE | Synonym for REGEXP |
| RPAD() | Append string the specified number of times |
| RTRIM() | Remove trailing spaces |
| SOUNDEX() | Return a soundex string |
| SOUNDS LIKE(v4.1.0) | Compare sounds |
| SPACE() | Return a string of the specified number of spaces |
| STRCMP() | Compare two strings |
| SUBSTR() | Return the substring as specified |
| SUBSTRING\_INDEX() | Return a substring from a string before the specified number of occurrences of the delimiter |
| SUBSTRING() | Return the substring as specified |
| TRIM() | Remove leading and trailing spaces |
| UCASE() | Synonym for UPPER() |
| UNHEX()(v4.1.2) | Convert each pair of hexadecimal digits to a character |
| UPPER() | Convert to uppercase |

**NUMERIC FUNCTIONS:**

| Name | Description |
| --- | --- |
| ABS() | Return the absolute value |
| ACOS() | Return the arc cosine |
| ASIN() | Return the arc sine |
| ATAN2(), ATAN() | Return the arc tangent of the two arguments |
| ATAN() | Return the arc tangent |
| CEIL() | Return the smallest integer value not less than the argument |
| CEILING() | Return the smallest integer value not less than the argument |
| CONV() | Convert numbers between different number bases |
| COS() | Return the cosine |
| COT() | Return the cotangent |
| CRC32()(v4.1.0) | Compute a cyclic redundancy check value |
| DEGREES() | Convert radians to degrees |
| DIV(v4.1.0) | Integer division |
| / | Division operator |
| EXP() | Raise to the power of |
| FLOOR() | Return the largest integer value not greater than the argument |
| LN() | Return the natural logarithm of the argument |
| LOG10() | Return the base-10 logarithm of the argument |
| LOG2() | Return the base-2 logarithm of the argument |
| LOG() | Return the natural logarithm of the first argument |
| - | Minus operator |
| MOD() | Return the remainder |
| % | Modulo operator |
| OCT() | Return an octal representation of a decimal number |
| PI() | Return the value of pi |
| + | Addition operator |
| POW() | Return the argument raised to the specified power |
| POWER() | Return the argument raised to the specified power |
| RADIANS() | Return argument converted to radians |
| RAND() | Return a random floating-point value |
| ROUND() | Round the argument |
| SIGN() | Return the sign of the argument |
| SIN() | Return the sine of the argument |
| SQRT() | Return the square root of the argument |
| TAN() | Return the tangent of the argument |
| \* | Times operator |
| TRUNCATE() | Truncate to specified number of decimal places |
| - | Change the sign of the argument |

**DATE & TIME FUNCTIONS:**

| Name | Description |
| --- | --- |
| ADDDATE()(v4.1.1) | Add dates |
| ADDTIME()(v4.1.1) | Add time |
| CONVERT\_TZ()(v4.1.3) | Convert from one timezone to another |
| CURDATE() | Return the current date |
| CURRENT\_DATE(), CURRENT\_DATE | Synonyms for CURDATE() |
| CURRENT\_TIME(), CURRENT\_TIME | Synonyms for CURTIME() |
| CURRENT\_TIMESTAMP(), CURRENT\_TIMESTAMP | Synonyms for NOW() |
| CURTIME() | Return the current time |
| DATE\_ADD() | Add two dates |
| DATE\_FORMAT() | Format date as specified |
| DATE\_SUB() | Subtract two dates |
| DATE()(v4.1.1) | Extract the date part of a date or datetime expression |
| DATEDIFF()(v4.1.1) | Subtract two dates |
| DAY()(v4.1.1) | Synonym for DAYOFMONTH() |
| DAYNAME()(v4.1.21) | Return the name of the weekday |
| DAYOFMONTH() | Return the day of the month (1-31) |
| DAYOFWEEK() | Return the weekday index of the argument |
| DAYOFYEAR() | Return the day of the year (1-366) |
| EXTRACT | Extract part of a date |
| FROM\_DAYS() | Convert a day number to a date |
| FROM\_UNIXTIME() | Format UNIX timestamp as a date |
| GET\_FORMAT()(v4.1.1) | Return a date format string |
| HOUR() | Extract the hour |
| LAST\_DAY(v4.1.1) | Return the last day of the month for the argument |
| LOCALTIME(), LOCALTIME | Synonym for NOW() |
| LOCALTIMESTAMP, LOCALTIMESTAMP()(v4.0.6) | Synonym for NOW() |
| MAKEDATE()(v4.1.1) | Create a date from the year and day of year |
| MAKETIME(v4.1.1) | MAKETIME() |
| MICROSECOND()(v4.1.1) | Return the microseconds from argument |
| MINUTE() | Return the minute from the argument |
| MONTH() | Return the month from the date passed |
| MONTHNAME()(v4.1.21) | Return the name of the month |
| NOW() | Return the current date and time |
| PERIOD\_ADD() | Add a period to a year-month |
| PERIOD\_DIFF() | Return the number of months between periods |
| QUARTER() | Return the quarter from a date argument |
| SEC\_TO\_TIME() | Converts seconds to 'HH:MM:SS' format |
| SECOND() | Return the second (0-59) |
| STR\_TO\_DATE()(v4.1.1) | Convert a string to a date |
| SUBDATE() | When invoked with three arguments a synonym for DATE\_SUB() |
| SUBTIME()(v4.1.1) | Subtract times |
| SYSDATE() | Return the time at which the function executes |
| TIME\_FORMAT() | Format as time |
| TIME\_TO\_SEC() | Return the argument converted to seconds |
| TIME()(v4.1.1) | Extract the time portion of the expression passed |
| TIMEDIFF()(v4.1.1) | Subtract time |
| TIMESTAMP()(v4.1.1) | With a single argument, this function returns the date or datetime expression. With two arguments, the sum of the arguments |
| TIMESTAMPADD()(v5.0.0) | Add an interval to a datetime expression |
| TIMESTAMPDIFF()(v5.0.0) | Subtract an interval from a datetime expression |
| TO\_DAYS() | Return the date argument converted to days |
| UNIX\_TIMESTAMP() | Return a UNIX timestamp |
| UTC\_DATE()(v4.1.1) | Return the current UTC date |
| UTC\_TIME()(v4.1.1) | Return the current UTC time |
| UTC\_TIMESTAMP()(v4.1.1) | Return the current UTC date and time |
| WEEK() | Return the week number |
| WEEKDAY() | Return the weekday index |
| WEEKOFYEAR()(v4.1.1) | Return the calendar week of the date (1-53) |
| YEAR() | Return the year |
| YEARWEEK() | Return the year and week |