# Function Reference (MySQL)

## Mathematical

**COUNT(* / column)**
**Return:** The number of non-Null values in the specified column

**MAX(column)**
**Return:** The maximum value in the column

**MIN(column)**
**Return:** The minimum value in the column

**SUM(column)**
**Return:** The sum of all rows in the column

**AVG(column)**
**Return:** The average of all rows in the column

**ABS(column)**
**Return:** The absolute value of the column data

**ROUND(column, decimal-places)**
**Return:** The column value rounded to the specified number of decimal points

**RAND()**
**Return:** A random number between 0.0 and 1.0
**Note:** Best used in ORDER BY

## String Manipulation

**UPPER(column)**
**Return:** The text in the specified column, converter to uppercase

**LOWER(column)**
**Return:** The text in the specified column, converter to lowercase

**TRIM(column)**
**Return:** The text in the specified column with white-space stripped from both sides

**LTRIM(column)**
**Return:** The text in the specified column with white-space stripped from the left side

**RTRIM(column)**
**Return:** The text in the specified column with white-space stripped from the right side

**CONCAT('string1' / column, 'string2' / column)**
**Return:** 'string1string2', a string with the specified text or columns concatenated together

## Dates & Times

**NOW()**
**Return:** A string containing the current date and time

**DATE(datetime / column)**
**Return:** The date component of the specified date string or column

**TIME(datetime / column)**
**Return:** The date component of the specified date string or column

**YEAR(datetime / column)**
**Return:** The year component of the specified date string or column

**MONTH(datetime / column)**
**Return:** The date component of the specified date string or column

**DAY(datetime / column)**
**Return:** The date component of the specified date string or column