# MySQL In-Built Functions

MySQL has many built-in functions.

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

# MySQL String Functions

1.UPPER() Function OR UCASE() Function

The UPPER() function converts a string to upper-case.

**Note:** This function is equal to the <u>UCASE()</u> function.

Syntax UPPER(text)

### 2.LOWER() Function OR LCASE() Function

```
The LOWER() function converts a string to lower-case.
Note: The <u>LCASE()</u> function is equal to the LOWER() function.
Syntax
LOWER(text)
3.CONCAT() Function
The CONCAT() function adds two or more expressions together.
Syntax
CONCAT(expression1, expression2, expression3,...)
4.CONCAT WS() Function
The CONCAT_WS() function adds two or more expressions together with a separator.
Syntax
CONCAT WS(separator, expression1, expression2, expression3,...)
```

5.LENGTH() Function

The LENGTH() function returns the length of a string

Syntax
LENGTH(string)

6.REVERSE() Function

The REVERSE() function reverses a string and returns the result. Syntax REVERSE(string)

7.REPLACE() Function

The REPLACE() function replaces all occurrences of a substring within a string, with a new substring.

**Note:** This function performs a case-sensitive replacement.

Syntax

REPLACE(string, substring, new\_string)

BAMANA, A, O) > BONOND Replace ('BANANA, 'AN', ') > B A

```
8.LEFT() Function
The LEFT() function extracts characters from a string (starting from left).
Syntax
LEFT(string, number_of_chars)
9.RIGHT() Function
The RIGHT() function extracts characters from a string (starting from right).
Syntax
RIGHT(string, number_of_chars)
10.LTRIM() Function
The LTRIM() function removes leading spaces from a string.
```

Syntax LTRIM(string)

11.TRIM() Function

The TRIM() function removes leading and trailing spaces from a string. Syntax TRIM(string)

12.SUBSTRING() Function OR SUBSTR() Function OR MID() Function

The SUBSTR() function extracts a substring from a string (starting at any position).

**Note:** The SUBSTR() and <u>MID()</u> functions equals to the <u>SUBSTRING()</u> function. Syntax SUBSTR(*string*, *start*, *length*)

13.INSTR() Function

The INSTR() function returns the position of the first occurrence of a string in another string.

This function performs a case-insensitive search.

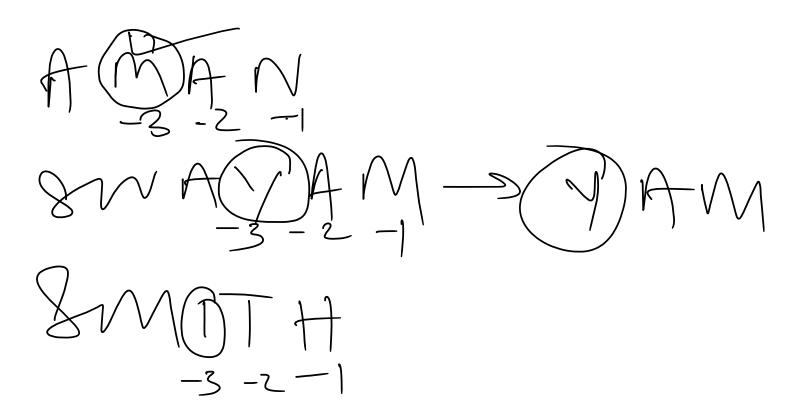
Syntax

INSTR(string1, string2)

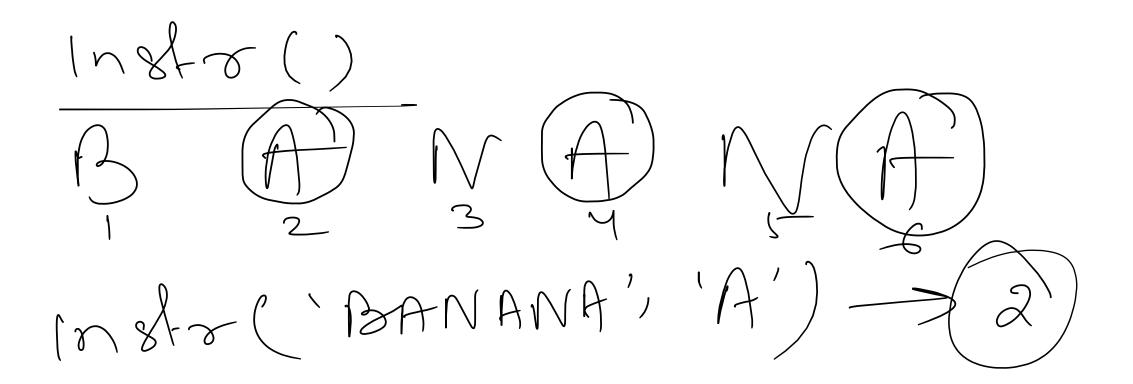
Substr -11 -10 -9 -8 -7 -5 -7 -3 -2 -1 M Y S Q L SERVER -1 2 3 4 5 © 7 8 9 30 11

Substr ('MYSQLSERVER', 1,5) > MYSQL Substr ('MYSQLSERVER', 5,1) -> L Substr ('MYSQLSERVER', 6,3) -> SER Substr ('MYSQLSERVER', 6, 3) -> SER Substr ('MYSQLSERVER', 6) -> SERVER

-10 -10 -1 -8 -1 -5 -7 -3 -2 -1 Y S Q T S E P V E P 2 3 4 5 6 7 8 9 10 11 Solst-s('mysallserver',-L,3)->SER Suled-6 (ImysqlsERVER, -6) -SERVER



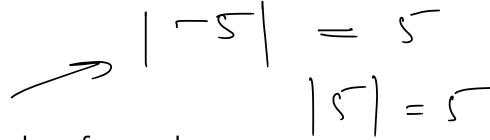
Hessig on ment DWAQTD First holf of exoplayee names? 2) NARTD Se cord half of e orphogee oranes?



Substrate 1/2 position of Stoing Position

# MySQL Numeric Functions

14.ABS() Function



The ABS() function returns the absolute (positive) value of a number. Syntax ABS(number)

## 15.MOD() Function

The MOD() function returns the remainder of a number divided by another number.

mod(5,2) = 2|5|2 - 1Syntax MOD(x, y)OR: x MOD yOR: *x* % *y* 

## 16.ROUND() Function

The ROUND() function rounds a number to a specified number of decimal places.

Syntax
ROUND(number, scale)

17.TRUNCATE() Function

The TRUNCATE() function truncates a number to the specified number of decimal places.

Syntax
TRUNCATE(number, decimals)

18.POWER() Function

The POWER() function returns the value of a number raised to the power of another number.

Syntax POWER(x, y)

Round (Number, Scale)

Seale

Seale

Seale

Position stark form

-ve | +ve |

Seal -ve | before decimal before v after

Seal -ve | position stark form | 4 or <4 -> Previous dignit 5 00 >5 > Previous dégit increments by 1

Round(5316.3062, -2) > 5300.0000

Scale -> Default value iso Round (5316.3062) -> 5316 Round (5.6) > 6 Round (5.4) > 5

# MySQL Date Functions

19.CURDATE() Function or CURRENT\_DATE() Function

**Note:** This function equals the <u>CURRENT DATE()</u> function. Syntax CURDATE()

20.CURTIME() Function or CURRENT\_TIME() Function The CURTIME() function returns the current time.

**Note:** This function equals the <u>CURRENT TIME()</u> function. Syntax CURTIME()

21.SYSDATE() Function OR NOW() Function OR CURRENT\_TIMESTAMP() Function The SYSDATE() function returns the current date and time.

Note: The date and time is returned as "YYYY-MM-DD HH:MM:SS".

Sysdate()

### 22.DAY() Function

The DAY() function returns the day of the month for a given date (a number from 1 to 31).

Syntax DAY(date)

## 23.MONTHNAME() Function

The MONTHNAME() function returns the name of the month for a given date. Syntax

MONTHNAME(date)

### 24.YEAR() Function

The YEAR() function returns the year part for a given date.

Syntax
YEAR(date)

YEAR (dute)

### 25.TIME() Function

The TIME() function extracts the time part from a given time/datetime.

Syntax

TIME(expression)