

## TEXT FUNCTIONS

### CONCATENATION

Use the `||` operator to concatenate two strings

```
SELECT 'Hi ' || 'Toby!';  
-- results: Hi Toby!
```

Remember that you can concatenate only character strings using `||`. Use the `+` for numbers

```
SELECT ' ' || 4 || 2;  
-- results: 42
```

Some databases implement non-standard solutions for concatenating strings like `CONCAT()` or `CONCAT_WS()`. Check the documentation for your specific database.

### LIKE OPERATOR – PATTERN MATCHING

Use the `_` character to replace any single character (use the `%` character to replace any number of characters (including 0 characters))

Fetch all names that start with any letter followed by "tobyline"

```
SELECT name  
FROM names  
WHERE name LIKE "_tobyline";
```

Fetch all names that end with "toby"

```
SELECT name  
FROM names  
WHERE name LIKE "%toby";
```

### USEFUL FUNCTIONS

Get the count of characters in a string

```
SELECT LENGTH('LearnSQL.com')  
-- results: 12
```

Convert all letters to lowercase

```
SELECT LOWER('LearnSQL.com')  
-- results: learnsql.com
```

Convert all letters to uppercase

```
SELECT UPPER('LearnSQL.com')  
-- results: LEARNSQL.COM
```

Convert all letters to lowercase and all first letters to uppercase (not implemented in MySQL and MS SQL Server)

```
SELECT INITCAP('edgar frank ted oconnor')  
-- results: Edgar Frank Ted Oconnor
```

Get just a part of a string

```
SELECT SUBSTRING('LearnSQL.com', 8)  
-- results: .com  
SELECT SUBSTRING('LearnSQL.com', 8, 4)  
-- results: .com
```

Replace part of a string

```
SELECT REPLACE('LearnSQL.com', 'SQL', 'Python')  
-- results: learnpython.com
```

## NUMERIC FUNCTIONS

### BASIC OPERATIONS

Use `+`, `-`, `*`, `/` to do some basic math. To get the number of seconds in a week

```
SELECT 60 * 60 * 24 * 7; -- results: 604800
```

### CASTING

From time to time, you need to change the type of a number. The `CAST()` function is there to help you out. It lets you change the type of values almost anything (integer, number, etc), double for precision, varchar, and many more) (set the number as an integer (without rounding))

```
SELECT CAST(3.14159265 AS integer);  
-- results: 3141
```

Change a column type to double for precision

```
SELECT CAST(column AS double precision);
```

### USEFUL FUNCTIONS

Get the remainder of a division

```
SELECT MOD(10, 3);  
-- results: 1
```

Round a number to its nearest integer

```
SELECT ROUND(124.5678);  
-- results: 125
```

Round a number to three decimal places

```
SELECT ROUND(124.5678, 3);  
-- results: 124.568
```

MySQL requires the first argument to be of the type number `fc` – get the number when needed.

Round the number up

```
SELECT CEILING(18.5); -- results: 19  
SELECT FLOOR(18.5); -- results: 18
```

The `CEIL()` function returns the **smallest integer not less than** a float. Server, the function is called `CEILING()`.

Round the number down

```
SELECT FLOOR(18.5); -- results: 18  
SELECT FLOOR(18.5); -- results: 18
```

The `FLOOR()` function returns the **greatest integer not greater than** a float.

Round towards 0 irrespective of the sign of a number

```
SELECT TRUNC(18.5); -- results: 18  
SELECT TRUNC(-18.5); -- results: -18
```

`TRUNC()` works the same way as `CAST()` (to `integer`) in MySQL, the function is called `TRUNCATE()`.

To get the absolute value of a number

```
SELECT ABS(-10); -- results: 10
```

To get the opposite of a number

```
SELECT SIGN(1); -- results: 1
```

## NULLs

To retrieve of rows with a missing value in the price column

```
SELECT price IS NULL;
```

To retrieve of rows with the weight column populated

```
SELECT weight IS NOT NULL;
```

Why shouldn't you use `price = NULL` or `weight = NULL`? Because databases don't know if those expressions are true or false – they are evaluated as NULLs. However, if you use a function or concatenation on a column that is NULL, in some cases, then it will get propagated. Take a look:

domain	LENGTH(domain)
learnsql.com	12
learnpython.com	16
NULL	NULL
gettable.com	12

### USEFUL FUNCTIONS

`CONV(x, y, z)`  
To replace NULLs in a query with something meaningful

```
SELECT domain,  
CONV(domain, 'domain@string')  
FROM contacts;
```

domain	conv
learnsql.com	learnsql.com
NULL	domain@string

The `COALESCE()` function takes any number of arguments and returns the value of the first argument that isn't NULL.

### NULLIF(x, y)

To take yourself from division by zero

```
SELECT  
last_month,  
this_month,  
this_month - last_month  
/ NULLIF(last_month, 0)  
AS better_by_percent  
FROM values, values;
```

last_month	this_month	better_by_percent
123700	100070	100.0
0	123620	NULL

The `NULLIF(x, y)` function will return NULL if `x` is the same as `y`, else it will return the `x` value.

## CASE WHEN

The basic version of `CASE` will check if the values are equal (e.g., if `foo` is equal to 10, then "foo=10" is returned, if there isn't a matching value in the `CASE` block, then the `ELSE` value will be returned (e.g., if `foo` is equal to 40, then "not equal to 40" will always).

```
SELECT  
CASE foo  
WHEN 10 THEN 'foo=10'  
WHEN 20 THEN 'foo=20'  
WHEN 3 THEN 'foo=3'  
ELSE 'not equal to 40'  
END AS bar10  
FROM values, values;
```

The most popular type is the **searched CASE WHEN** – it lets you pass conditions (as you'd write them in the `WHERE` clause), evaluates them in order, then returns the value for the first condition met.

```
SELECT  
CASE  
WHEN score >= 80 THEN 'A'  
WHEN score >= 60 THEN 'B'  
ELSE 'C'  
END AS grade  
FROM test, results;  
Here, all students who scored at least 80 will get an A, those with the score above 60 (and below 80) will get a B, and the rest will receive a C.
```

## TROUBLESHOOTING

### Integer division

When you don't use the decimal places you expect, it means that you are dividing between two integers. Cast one to float (e.g.)

```
CAST(123 AS float) / 2
```

### Division by 0

To avoid this error, make sure that the denominator is not equal to 0. You can use the `NULLIF()` function to replace 0 with a NULL, which will result in a NULL for the whole expression

```
count / NULLIF(count, 0)
```

### Incorrect calculations

If you do calculations using `float` (floating point) numbers, you'll end up with some inaccuracies. This is because this type is meant for scientific calculations such as calculating the velocity. Whenever you need accuracy (such as dealing with monetary values), use the `DECIMAL()` number to type (or money if available).

### Errors when rounding with a specified precision

Most databases won't complain, but do check the documentation if they do. For example, if you want to specify the rounding precision in PostgreSQL, the value must be of the number to type.

# Sql Functions Programmers Reference

**Douglas J. Reilly**



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