# Standard SQL Functions Cheat Sheet

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## TEXT FUNCTIONS

### CONCATENATION

Use the `||` operator to concatenate two strings:

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

Remember that you can concatenate only character strings using `||`. Use this trick 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 `'atherine'`:

```
SELECT name
FROM names
WHERE name LIKE '_atherine';
```

Fetch all names that end with `'a'`:

```
SELECT name
FROM names
WHERE name LIKE '%a';
```

### USEFUL FUNCTIONS

Get the count of characters in a string:

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

Convert all letters to lowercase:

```
SELECT LOWER('LEARNSQL.COM');
-- result: learnsql.com
```

Convert all letters to uppercase:

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

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

```
SELECT INITCAP('edgar frank ted codd');
-- result: Edgar Frank Ted Codd
```

Get just a part of a string:

```
SELECT SUBSTRING('LearnSQL.com', 8);
-- result: .com
SELECT SUBSTRING('LearnSQL.com', 0, 6);
-- result: Learn
```

Replace part of a string:

```
SELECT REPLACE('LearnSQL.com', 'SQL',
'Python');
-- result: 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; -- result: 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 value to almost anything (integer, numeric, double precision, varchar, and many more).

Get the number as an integer (without rounding):

```
SELECT CAST(1234.567 AS integer);
-- result: 1234
```

Change a column type to `double precision`:

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

### USEFUL FUNCTIONS

Get the remainder of a division:

```
SELECT MOD(11, 2);
-- result: 1
```

Round a number to its nearest integer:

```
SELECT ROUND(1234.56789);
-- result: 1235
```

Round a number to three decimal places:

```
SELECT ROUND(1234.56789, 3);
-- result: 1234.568
```

PostgreSQL requires the first argument to be of the type `numeric`—cast the number when needed.

To round the number **up**:

```
SELECT CEIL(3.3); -- result: 4
SELECT CEIL(-3.9); -- result: -3
```

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

To round the number **down**:

```
SELECT FLOOR(3.8); -- result: 3
SELECT FLOOR(-3.2); -- result: -4
```

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

To round towards 0 irrespective of the sign of a number:

```
SELECT TRUNC(3.5); -- result: 3
SELECT TRUNC(-3.5); -- result: -3
```

`TRUNC(x)` works the same way as `CAST(x AS integer)`. In MySQL, the function is called `TRUNCATE()`.

To get the absolute value of a number:

```
SELECT ABS(-12); -- result: 12
```

To get the square root of a number:

```
SELECT SQRT(9); -- result: 3
```

## NULLs

To retrieve all rows with a missing value in the `price` column:

```
WHERE price IS NULL
```

To retrieve all rows with the `weight` column populated:

```
WHERE 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 `NULL`s.

Moreover, if you use a function or concatenation on a column that is `NULL` in some rows, then it will get propagated. Take a look:

| domain | LENGTH(domain) |
|---|---|
| LearnSQL.com | 12 |
| LearnPython.com | 15 |
| NULL | NULL |
| worldwide.com | 13 |

## USEFUL FUNCTIONS

### COALESCE(x,y,...)

To replace `NULL` in a query with something meaningful:

```
SELECT
  domain,
  COALESCE(domain, 'domain missing')
FROM contacts;
```

| domain | coalesce |
|---|---|
| LearnSQL.com | LearnSQL.com |
| NULL | domain missing |

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

### NULLIF(x,y)

To save yourself from division by 0 errors:

```
SELECT
  last_month,
  this_month,
  this_month * 100.0
    / NULLIF(last_month, 0)
    AS better_by_percent
FROM video_views;
```

| last_month | this_month | better_by_percent |
|---|---|---|
| 721706 | 1005679 | 139.0 |
| 0 | 176123 | 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 WHEN` checks if the values are equal (e.g., if `foo` is equal to 50, then `'normal'` is returned). If there isn't a matching value in the `CASE WHEN`, then the `ELSE` value will be returned (e.g., if `foo` is equal to 40, then `'not available'` will show up).

```
SELECT
  CASE foo
    WHEN 50 THEN 'normal'
    WHEN 10 THEN 'reduced'
    WHEN  0 THEN 'free'
    ELSE 'not available'
  END AS qualify
FROM ticket_types;
```

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 >= 90 THEN 'A'
    WHEN score >  80 THEN 'B'
    ELSE 'F'
  END AS grade
FROM test_results;
```

Here, all students who scored at least 90 will get an `A`, those with the score above 80 (and below 90) will get a `B`, and the rest will receive an `F`.

## TROUBLESHOOTING

### Integer division

When you don't see the decimal places you expect, it means that you are dividing between two integers. Cast one to `decimal`:

```
CAST(123 AS decimal) / 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_all, 0)
```

### Inexact calculations

If you do calculations using `real` (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` / `numeric` 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 `numeric` type.

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Michael Seilmaier

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