

## 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 robb');  
-- results: Edgar Frank Ted Robb
```

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: 314
```

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 `tr` – cast 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 `x`. In SQL Server, the function is called `Ceil` (with `C`).

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 `x`.

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()` (e.g. `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. Moreover, 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

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

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

domain	convnull
learnsql.com	learnsql.com
NULL	domain missing

The `CONVNULL()` 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` `WHEN`, then the `ELSE` value will be returned (e.g., if `foo` is equal to 40, then "not equal to 10" will always).

```
SELECT  
  CASE foo  
  WHEN 10 THEN 'foo=10'  
  WHEN 20 THEN 'foo=20'  
  WHEN 0 THEN 'foo=0'  
  ELSE 'not equal to 10'  
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;  
Now, 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 `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()` function 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 same `int` type.

# Sql Functions Programmers Reference

**D Kirk**



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**Programmer's Reference** Microsoft Corporation,1994 The Microsoft ODBC Software Development Kit SDK 2 0 is a set of software components and tools designed to help in the development of ODBC drivers and ODBC enabled applications for the Windows 3 1 and Windows NT operating systems In addition to coverage of version 1 0 material the book includes detailed coverage of features new to version 2 0

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**Microsoft Visual C++5.0 Programmer's Reference Set** Microsoft Corporation,1997

*Sybase Technical Publications: Open server for CICS COBOL programmer's reference* ,1990

**Access 2010 Programmer's**

**Reference** Teresa Hennig, Rob Cooper, Geoffrey L. Griffith, Jerry Dennison, 2010-08-09 A comprehensive guide to programming for Access 2010 and 2007 Millions of people use the Access database applications and hundreds of thousands of developers work with Access daily Access 2010 brings better integration with SQL Server and enhanced XML support this Wrox guide shows developers how to take advantage of these and other improvements With in depth coverage of VBA macros and other programming methods for building Access applications this book also provides real world code examples to demonstrate each topic Access is the leading database that is used worldwide While VBA remains the favored method for Access programming more options are available for Access 2010 and this book covers them all Covers the Access Object model using VBA with ADO VBA execution and error handling creating database objects creating and enhancing forms and reports using the Windows Registry and much more Explains how to use VBA with SQL APIs and other Office applications and how to create secure VBA code Companion Web site provides updates and links to useful resources Access 2010 Programmer's Reference is a comprehensive guide to the best of breed techniques for programming Access applications

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**Windows NT Networking Guide** Microsoft Corporation, 1995

**Microsoft Word Developer's Kit** Microsoft Corporation, 1995 Written by insiders with intimate knowledge about Microsoft Word this one stop source provides all the technical information and tools that users and developers need Spanning all platforms the kit includes information on Microsoft Word for Windows 95 Windows NT Windows for Workgroups and Apple Macintosh systems Includes two disks

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**Microsoft Visual Studio Core Reference Set: Microsoft Visual FoxPro 6.0 programmer's guide**, 1998

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Endless Referrals Bob Burg, 2002 Bestselling author Bob Burg's winning strategies have helped thousands of professionals and entrepreneurs to successfully network Updated with all new information this book contains diverse business opportunities including the essential rules of networking etiquette

PHP 4 Developer's Guide Blake

Schwendiman,2001 PHP a server side embedded HTML scripting language is used to develop dynamic Web content Hot language Red Hat and Mitsubishi are among the companies that use PHP as their Web development solution It s also the most popular Apache module This book provides the tools and information needed to build dynamic Web applications and databases with PHP 4 Covers installation configuration database connectivity working with XML and CGL and much more Includes details on the new features in PHP 4 including shared memory support the new Zend engine and XML support

**Computer Design** ,1988      **The ODBC Solution** Robert Signore,John Creamer,Michael O. Stegman,1995 In this practical book disk package systems programmers will be introduced to everything they need to know to write consistent Windows gateway applications that communicate readily with any ODBC data source in a client server environment Presented in tutorial format the book contains extensive examples and the disk contains all the source code in C

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