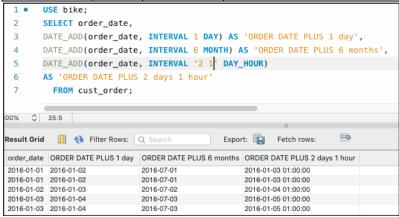
Function List for CIT 111

Function	Туре	Example	Result
NOW() * Returns current local date and time.	date/time	NOW()	ex. '2020-02-24 09:31:31'
DATE(date) * A formatting function	date/time	DATE('2020-01-01 11:31:31')	'2020-01-01'
CURRENT_DATE() * Returns current local date	date	CURRENT_DATE	'2020-02-24'
CURRENT_TIME() * Returns current local time.	time	CURRENT_TIME	'11:52:10'
UTC_DATE() * Returns current UTC date.	date	UTC_DATE	'2020-02-24'
UTC_TIME() * Returns current UTC time.	time	UTC_TIME	'18:52:10'

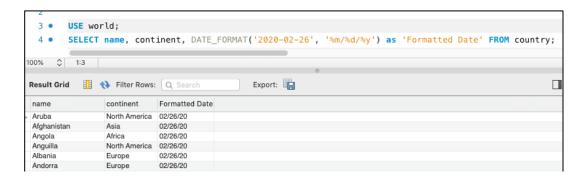
Note: CURRENT_DATE, CURRENT_TIME, UTC_DATE, UTC_TIME can be used with parentheses or not. They accept no parameters.

Function	Type	Example	Result
DATE_ADD(date,	Date,	DATE ADD('2020-01-01', interval 1 day)	'2020-01-02'
interval unit)	Datetime	DATE_ADD(2020-01-01 , linterval 1 day)	2020-01-02



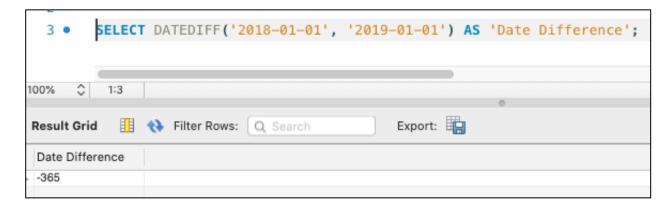
Function	Type	Example	Result
DATE_FORMAT	Date	DATE_FORMAT('2020-01-01', '%m%d/%Y')	01/01/2020

- Dates must be in quotes
- A DATE or DATETIME data type can be passed into DATE_FORMAT
- See w3schools.com/sql/func_mysql_date_format.asp for format descriptors



Function	Type	Example	Result
DATEDIFF(date1,date2)	Date	DATEDIFF('2018-01-01', '2019-01-01')	-365

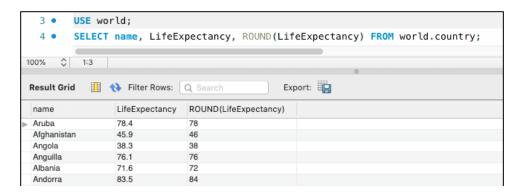
- The DATEDIFF function has two parameters. Both are dates.
- The value returned is an integer and is the number of days between the two dates.
- If you provide the latest date first the results will be positive. Otherwise, it will be negative.



Numeric Functions

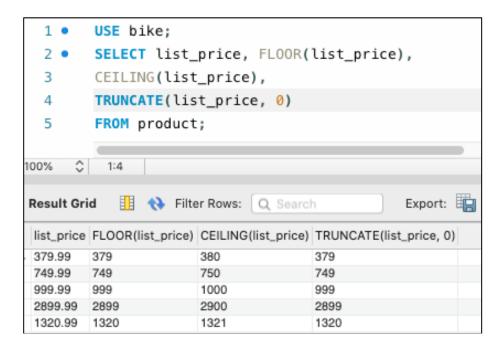
Function	Type	Example	Result
ROUND(number [, length])	Number	ROUND(13.37, 1)	13.4

- The ROUND function has two parameters. The first is a number, usually a DECIMAL or a FLOAT. The second defines the number of decimals to which the number will be rounded.
- If no length is provided, the number is rounded to a whole number.



Function	Туре	Example	Result
FLOOR(number)	Number	FLOOR(7.7)	7
CEILING(number)	Number	CEILING(6.1)	7
TRUNCATE(number, length)	Number	TRUNCATE(7.9)	7

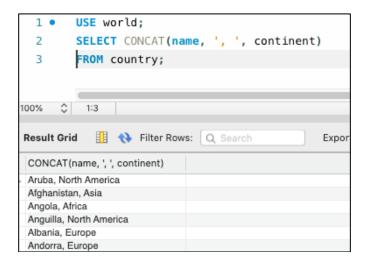
- FLOOR() will return the next lowest whole number no matter what the decimal point.
- CEILING() will return the next highest whole number no matter what the decimal point.
- TRUNCATE() will return the number truncated to the precision specified.



String Functions

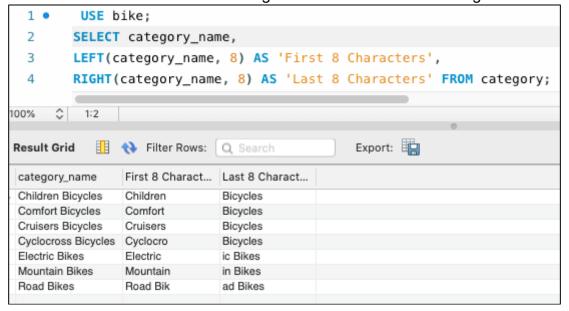
Function	Туре	Example	Result
CONCAT(string1[, string2])	String	CONCAT("Salmon", "Fish")	Salmon Fish

- Can include column values and literal values.
- In MySQL literal values can be enclosed with either single (') or double quotes (").



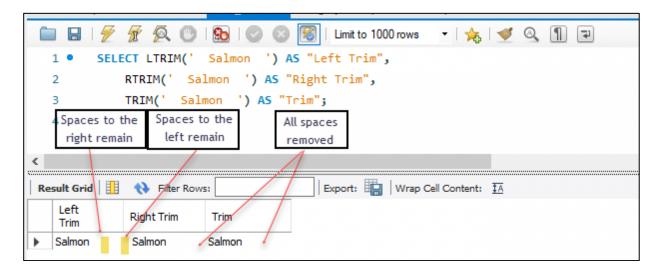
Function	Type	Example	Result
RIGHT(string, # characters)	String	RIGHT('Salmon',3)	mon
LEFT(string, # characters)	String	LEFT('Salmon', 3)	Sal

- The RIGHT and LEFT functions have two parameters. The first is a string and the second is the number of characters to be returned.
- The RIGHT function starts counting from the right side of the string.
- The LEFT function starts counting from the left side of the string.



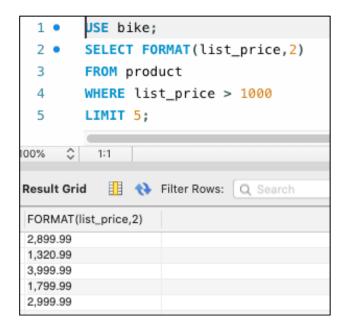
Function	Type	Example	Result
TRIM(string)	String	TRIM(' Salmon ')	'Salmon'
LTRIM(string)	String	LTRIM(' Salmon ')	'Salmon '
RTRIM(string)	String	RTRIM(' Salmon ')	' Salmon'

- The TRIM function will remove leading and trailing spaces from a string.
- The LTRIM function will remove leading spaces from a string.
- The RTRIM function will remove trailing spaces from a string.



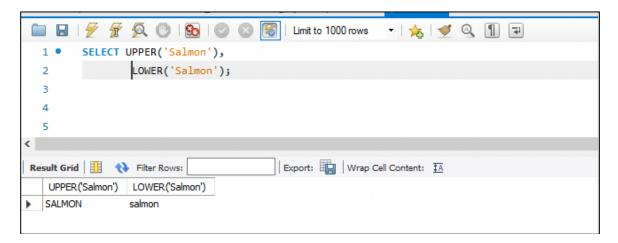
Function	Type	Example	Result
FORMAT(number, decimal)	String	FORMAT(1234.342, 2)	1,234.34

FORMAT() accepts a decimal but returns a comma formatted string.



Function	Туре	Example	Result
LOWER(string)	String	LOWER('SALMON')	'salmon'
UPPER(string)	String	UPPER('salmon')	'SALMON'

- LOWER() converts all characters to lower case.
- UPPER() converts all characters to upper case.



Function	Type	Example	Result
LOCATE(find, search[, start])	String	LOCATE('al','salmon',1)	2
LENGTH(string)	String	LENGTH('salmon')	6
SUBSTRING(string, start[, length])	String	SUBSTRING('salmon',3,999)	'lmon'

- LOCATE() and LENGTH() accept a string but return an integer.
- SUBSTRING() accepts a string and returns a string.

