

# Day 29 FLOOR() and CEIL() in MySQL





## FLOOR()

• FLOOR() function in MySQL is used to return the largest integer value which will be either equal to or less than from a given input number.



# **General Syntax:**



Parameter : Required

X : A number whose floor value we want to calculate.

**Returns**: It returns the closest integer which is <=X.

So, if X is integer than it will return X.

Otherwise, largest integer which is lesser

than X.



## Use case example:

FLOOR value of a numeric column in a table.

Table - Number

X 90.55 0 -2 -45.76 0.25



#### **Query:**

```
SELECT
    X, FLOOR(X) AS floor_X
FROM Number;
```

#### **Output:**

	X	floor_X
<b>&gt;</b>	90.55	90
	0	0
	-2	-2
	-45.76	-46
	0.25	0



## CEIL()

• **CEIL()** function in MySQL is used to return the smallest integer value which is either greater than or equal to the given input number.



# **General Syntax:**



Parameter : Required

X : A number whose ceiling value we want to

calculate.

**Returns**: It returns the closest integer which is >=X.

So, if X is integer than it will return X.

Otherwise, next integer which is greater

than X.



## Use case example:

CEIL value of a numeric column in a table.

Table - Number

X 8.5 1 0 -1 #56daysofSQL

#### **Query:**

```
SELECT
    X, CEIL(X) AS ceil_X
FROM Number;
```

#### **Output:**

