

ceil

Description

Returns the smallest integer greater than or equal to a number. For example, `1.5` becomes `2`, and `8.1` becomes `9`.

Syntax

Like many functions in DataPrime, `ceil` supports [two notations](#), **function** and **method** notation. These interchangeable forms allow flexibility in how you structure expressions.

Function notation

```
ceil(number: number): number
```

Method notation

```
(number: number).ceil(): number
```

Arguments

Name	Type	Required	Description
number	number	true	A numeric expression to round up

Example

Use case: Calculate required SaaS licenses

When averaging license usage over time, results may include decimals. Since fractional licenses cannot be purchased, `ceil` ensures the number is rounded up to the nearest integer.

Example data

```
{
  "total_licenses": 100,
  "licenses_in_use": 31,
  "timestamp": "2024-10-10T21:00:00Z"
},
{
```

```
"total_licenses": 100,  
"licenses_in_use": 35,  
"timestamp": "2024-10-11T21:00:00Z"  
},  
{  
  "total_licenses": 100,  
  "licenses_in_use": 22,  
  "timestamp": "2024-10-12T21:00:00Z"  
},  
{  
  "total_licenses": 100,  
  "licenses_in_use": 54,  
  "timestamp": "2024-10-13T21:00:00Z"  
}
```

Example query

Function notation

```
aggregate ceil(avg(total_licenses)) as licenses_needed
```

Method notation

```
aggregate total_licenses.avg().ceil() as licenses_needed
```

Example output

```
{  
  "licenses_needed": 36  
}
```

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