

WEEKNUM Function

Derives the numeric value for the week within the year (1, 2, etc.). Input must be the output of the `DATE` function or a reference to a column containing Datetime values. The output of this function increments on Sunday.

Week 1 of the year is the week that contains January 1.

NOTE: If the source Datetime value does not include a valid input for this function, a missing value is returned.

Basic Usage

Column reference example:

```
derive type:single value:WEEKNUM(MyDate)
```

Output: Generates a column of values containing the numeric week number values derived from the `MyDate` column.

Syntax and Arguments

```
derive type:single value:WEEKNUM(datetime_col)
```

| Argument | Required? | Data Type | Description |
|---------------------------|-----------|-----------|--|
| <code>datetime_col</code> | Y | datetime | Name of column whose week number values are to be computed |

For more information on syntax standards, see *Language Documentation Syntax Notes*.

datetime_col

Name of the column whose week number value is to be computed.

- Missing values for this function in the source data result in missing values in the output.
- Multiple columns and wildcards are not supported.

Tip: You cannot insert constant Datetime values as inputs to this function. However, you can use the following: `WEEKNUM(DATE(2017,12,20))`.

Usage Notes:

| Required? | Data Type | Example Value |
|-----------|-----------|---------------------|
| Yes | Datetime | <code>myDate</code> |

Examples

Tip: For additional examples, see *Common Tasks*.

Example - Day of Date functions

This example illustrates how you can apply functions to derive day-of-week values out of a column of Datetime type:

- WEEKDAY - returns numeric value for the day of the week for source Datetime values. See *WEEKDAY Function*.
- WEEKNUM - returns the numeric value for the week within the year for source Datetime values. See *WEEKNUM Function*.
- DATEFORMAT - can be used to format Datetime values in many different ways. See *DATEFORMAT Function*.

Source:

| myDate |
|----------|
| 10/30/17 |
| 10/31/17 |
| 11/1/17 |
| 11/2/17 |
| 11/3/17 |
| 11/4/17 |
| 11/5/17 |
| 11/6/17 |

Transform:

The following generates a numeric value for the day of week in a new column:

```
derive type:single value: WEEKDAY (myDate) as:'weekDayNum'
```

The following generates a full text version of the name of the day of the week:

```
derive type:single value:DATEFORMAT(myDate, 'EEEE') as:'weekDayNameFull'
```

The following generates a three-letter abbreviation for the name of the day of the week:

```
derive type:single value:DATEFORMAT(myDate, 'EEE') as:'weekDayNameShort'
```

The following generates the numeric value of the week within the year:

```
derive type:single value: WEEKNUM (myDate) as:'weekNum'
```

Results:

| myDate | weekDayNum | weekDayNameFull | weekDayNameShort | weekNum |
|----------|------------|-----------------|------------------|---------|
| 10/30/17 | 1 | Monday | Mon | 44 |
| 10/31/17 | 2 | Tuesday | Tue | 44 |

| | | | | |
|---------|---|-----------|-----|----|
| 11/1/17 | 3 | Wednesday | Wed | 44 |
| 11/2/17 | 4 | Thursday | Thu | 44 |
| 11/3/17 | 5 | Friday | Fri | 44 |
| 11/4/17 | 6 | Saturday | Sat | 44 |
| 11/5/17 | 7 | Sunday | Sun | 45 |
| 11/6/17 | 1 | Monday | Mon | 45 |