

# WEEKDAY Function

Derives the numeric value for the day of the week (1, 2, etc.). Input must be a reference to a column containing Datetime values.

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

**Tip:** You can use the DATEFORMAT function to generate text versions of the day of the week. See Examples below.

## Basic Usage

### Column reference example:

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

**Output:** Generates a column of values containing the numeric weekday values derived from the MyDate column.

## Syntax and Arguments

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

Argument	Required?	Data Type	Description
datetime_col	Y	datetime	Name of column whose weekday values are to be computed

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

### datetime\_col

Name of the column whose day-of-week 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: WEEKDAY (DATE ( 12 , 20 , 2017 ) ).

### Usage Notes:

Required?	Data Type	Example Value
Yes	Datetime	myDate

## 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:

<b>myDate</b>	<b>weekDayNum</b>	<b>weekDayNameFull</b>	<b>weekDayNameShort</b>	<b>weekNum</b>
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