

# EXAMPLE - Day of 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