**Grouping on a function of the index**

Groubpy operations can also be performed on transformations of the index values. In the case of a DateTimeIndex, we can extract portions of the datetime over which to group.

In this exercise you'll read in a set of sample sales data from February 2015 and assign the 'Date' column as the index. Your job is to group the sales data by the day of the week and aggregate the sum of the 'Units' column.

Is there a day of the week that is more popular for customers? To find out, you're going to use .strftime('%a') to transform the index datetime values to abbreviated days of the week.

The sales data CSV file is available to you as 'sales.csv'.

**INSTRUCTIONS**

* Read 'sales.csv' into a DataFrame with index\_col='Date' and parse\_dates=True.
* Create a groupby object with sales.index.strftime('%a') as input and assign it to by\_day.
* Aggregate the 'Units' column of by\_day with the .sum() method. Save the result as units\_sum.
* Print units\_sum.

# Read file: sales

sales = pd.read\_csv('sales.csv', index\_col='Date', parse\_dates=True)

# Create a groupby object: by\_day

by\_day = sales.groupby(sales.index.strftime('%a'))

print(by\_day.head())

# Create sum: units\_sum

units\_sum = by\_day['Units'].sum()

# Print units\_sum

print(units\_sum)