This notebook is an exercise in the <u>Pandas</u> course. You can reference the tutorial at <u>this</u> <u>link</u>.

# Introduction

Run the following cell to load your data and some utility functions.

```
In [ ]: import pandas as pd
    reviews = pd.read_csv("../input/wine-reviews/winemag-data-130k-v2.csv",
    index_col=0)
    from learntools.core import binder; binder.bind(globals())
    from learntools.pandas.data_types_and_missing_data import *
    print("Setup complete.")
```

## **Exercises**

### 1.

What is the data type of the points column in the dataset?

## 2.

Create a Series from entries in the points column, but convert the entries to strings. Hint: strings are str in native Python.

```
In [ ]: point_strings = reviews.points.astype("str")
# Check your answer
q2.check()
```

```
In [ ]: #q2.hint()
#q2.solution()
```

## 3.

Sometimes the price column is null. How many reviews in the dataset are missing a price?

```
In [ ]: #q3.hint()
#q3.solution()
```

#### 4.

What are the most common wine-producing regions? Create a Series counting the number of times each value occurs in the region\_1 field. This field is often missing data, so replace missing values with Unknown. Sort in descending order. Your output should look something like this:

```
Unknown 21247
Napa Valley 4480
...

Bardolino Superiore 1
Primitivo del Tarantino 1
Name: region_1, Length: 1230, dtype: int64

In []: reviews_per_region = reviews.region_1.fillna('Unknown').value_counts().
sort_values(ascending=False)
# Check your answer
q4.check()

In []: #q4.hint()
#q4.solution()
```

# Keep going

Move on to <u>renaming and combining</u>.

Have questions or comments? Visit the <u>Learn Discussion forum</u> to chat with other Learners.