4.2.5

Activity: Heads Up

Maria has a file of student records from all the schools in the district. The school board wants to get some analysis done on the file, and she's brought the data to you so that you can use Python and Pandas to do it! Eventually, she'll ask for detailed information about specific subsets of the data. But, she's not yet sure what questions the school board will have. So, Maria asks you to collect the data for now as a first step.

Files

Download the following files to help you get started:

Heads Up files (https://2u-data-curriculum-team.s3.amazonaws.com/dataviz-online/v2/module_4/4-2-Student_Data_Starter_Code.zip)

Using the Jupyter Notebook file in the Unsolved folder, navigate to the "Step 1" section to write your code. Alternatively, you can use the Jupyter Notebook file that you created in the previous lesson to write your code.

Instructions

- 1. In Jupyter Notebook, open the Student_Data_Analysis.ipynb file, and use it to write your code. Note that the Resources folder contains the CSV file that you'll import.
- 2. Import the pandas and os libraries, as the following code shows:

```
import pandas as pd
import os
```

3. Using the Pandas read_csv function and the os.path.join function, import the data from the new_student_data.csv file into a DataFrame named student_df, as the following code shows:

```
student_data = os.path.join('../Resources/new_student_data.csv')
student_df = pd.read_csv(student_data)
```

4. Use the head function (and/or the tail function) to check that Pandas correctly imported the data, as the following code shows:

```
student_df.head()
```

Solution

How did you do?

You can refer to the solution file in the Solved folder, which is in the zipped folder that you downloaded for this activity.

What's Next?

You've learned how to use two powerful tools—Pandas and Jupyter Notebook—to collect data. That makes up the first phase of our three-phase data analysis process.

In this activity, you might have noticed some duplicated or missing values. Next, you'll learn how to use Pandas to address those issues and more. Doing so is part of the second phase of the data analysis process: preparing the data.

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