M2-03: Grouping Data in Python Part of the "Exploratory Data Analysis" Learning Badge Video Walkthrough: https://discovery.cs.illinois.edu/m2-03/

Aggregation of Groups

Nearly all analysis we will perform on groups will require us to **aggregate** the groups together into a new DataFrame, containing **summaries** of each group.

Three aggregations are extremely common in data science:

Type	Python Code	Every variable is summarized for each group, producing the following summary:
Count	<pre>df.groupby("Subject") .agg().reset_index()</pre>	Produces a count of the number of rows that contain data.
		Each row will only ever contribute one to the count the actual value of the data does not matter, just the existence of data.
Sum	<pre>df.groupby("Subject") .agg().reset_index()</pre>	Produces the sum of all observations for each variable within the group.
Mean (Average)	<pre>df.groupby("Subject") .agg().reset_index()</pre>	Produces the average (mean) value of all observations within each group for each variable within the dataset.
Other Common Aggregations: "median", "min", "max", "std", "var",and more!		

Let's discovery happens when we aggregate by "Subject", using the GPA dataset:

Туре	Result	Interpretation
Count		
Sum		
Mean (Average)		