5 **Bringing it all together**

100%

Here, you will bring together everything you have learned in this course while working with data recorded from the Summer Olympic games that goes as far back as 1896! This is a rich dataset that will allow you to fully apply the data manipulation techniques you have learned. You will pivot, unstack, group, slice, and reshape your data as you explore this dataset and uncover some truly fascinating insights. Enjoy!

▷	Case Study - Summer Olympics	50 xp
≣	Grouping and aggregating	50 xp
</>	Using .value_counts() for ranking	100 xp
</>	Using .pivot_table() to count medals by type	100 xp
▷	Understanding the column labels	50 xp
</>	Applying .drop_duplicates()	100 xp
</>	Finding possible errors with .groupby()	100 xp
</>	Locating suspicious data	100 xp
▷	Constructing alternative country rankings	50 xp
</>	Using .nunique() to rank by distinct sports	100 xp
</>	Counting USA vs. USSR Cold War Olympic Sports	0 xp
</>	Counting USA vs. USSR Cold War Olympic Medals	100 xp
▷	Reshaping DataFrames for visualization	50 xp
</>	Visualizing USA Medal Counts by Edition: Line Plot	100 xp
</>	Visualizing USA Medal Counts by Edition: Area Plot	100 xp
</>	Visualizing USA Medal Counts by Edition: Area Plot with Ordered Medals	100 xp
▷	Congratulations!	50 xp

HIDE CHAPTER DETAILS