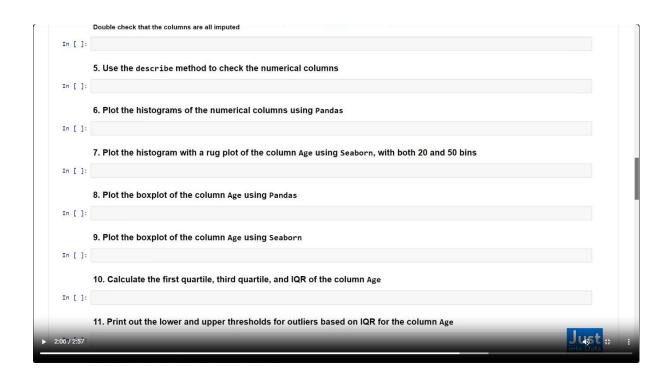
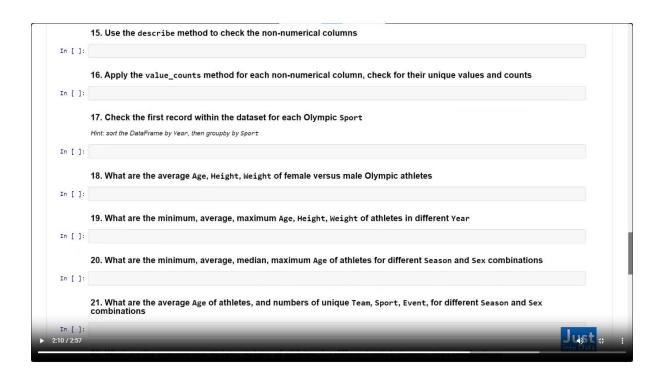


		Use IterativeImputer in sklearn to impute based on columns Year, Age, Height, Weight		
		Import libraries		
	In [ ]:			
		Build a list of columns that will be used for imputation, which are Year, Age, Height, Weight		
		The column Year doesn't have mssing values, but we include it since it might be helpful modeling the other three columns. The age, height, and weight could change across years.		ı
	In [ ]:			ı
		Create an IterativeImputer object and set its min_value and max_value parameters to be the minumum and maximum of corresponding columns		ı
	In [ ]:			
		Apply the imputer to fit and transform the columns to an imputed NumPy array		
	In [ ]:			
		Assign the imputed array back to the original DataFrame's columns		
	In [ ]:			
		Fill the missing values in the column Meda1 with string of 'NA'		
	In [ ]:			
		Double check that the columns are all imputed		
Þ	2:057 2:57	Just into Pat	# :	:



In [	1:
	12. What are the Sport for the athletes of really young age
	Filter for the column Sport when the column Age has outliers of lower values
In [	
	Look at the unique values of Sport and their counts when Age are low-valued outliers
In [	Did you find any sports popular for really young athletes?
	13. What are the Sport for the athletes of older age
	Filter for the column Sport when the column Age has outliers of higher values
In [	]:
	Look at the unique values of Sport and their counts when Age are high-valued outliers
¥. F	Did you find any sports popular for older age athletes?
In [	
In [	14. Check for the number of unique values in each column
<b>▶</b> 2:09 / 2:5	luct



In [	1:	
	22. What are the average Age, Height, Weight of athletes, for different Medal, Season, Sex combinations	
In [	1:	
	23. Plot the scatterplot of Height and Weight	
In [	J. C.	
	24. Plot the scatterplot of Height and Weight, using different colors and styles of dots for different Sex	
In [	1:	
	25. Plot the pairwise relationships of Age, Height, Weight	
In [	1:	
	26. Plot the pairwise relationships of Age, Height, Weight, with different colors for Sex	
In [	1:	
	27. Print out the correlation matrix of Age, Height, Weight	
In [	1:	
	28. Use heatmap to demonstrate the correlation matrix of Age, Height, Weight, use a colormap (cmap) of 'crest'	
In [	1:	
<b>2:12 / 2:5</b>	57 29. Plot the histograms of Age, with different colors for different Sex	ata # :

