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- # Harvardx: PH125.2 (2) Data Science: Visualization
- # SECTION 1: INTRO TO DATA VISUALIZATION & DISTRIBUTIONS
- # ASSESSMENTS
- # # # ASSESSMENT 1.1: DATA TYPES
- # # EXERCISE 1 VARIABLE NAMES



- # # EXERCISE 2 VARIABLE TYPE
- # # EXERCISE 3 NUMERICAL VALUES



# # EXERCISE 4 - TABLES



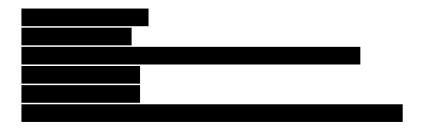
# # EXERCISE 5 - INDICATOR VARIABLES



- # # EXERCISE 6 DATA TYPES HEIGHTS
- # # # ASSESSMENT 1.2: DISTRIBUTIONS
- # # # ASSESSMENT 1.2: NORMAL DUSTRIBUTION
- # # EXERCISE 1 PROPORTIONS



# # EXERCISE 2 - AVERAGES & STANDARD DEVIATIONS



# # EXERCISE 3 - APPROXIMATIONS



# # EXERCISE 4 - 7 FOOTERS & THE NBA

# use pnorm to calculate the proportion over 7 feet (7\*12 inches)

# # EXERCISE 5 - ESTIMATING THE NUMBER 7 FOOTERS



# # EXERCISE 6 - HOW MANY 7 FOOTERS ARE IN THE NBA?



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# # EXERCISE 7 - LEBRON JAMES' HEIGHT
## Change the solution to previous answer
# # EXERCISE 8 - INTERPRETATION
# # # ASSESSMENT 1.3: QUANTILES, PERCENTILES & BOXPLOTS
# # EXERCISE 1 - VECTOR LENGTHS
# # EXERCISE 2 - PERCENTILES
# # EXERCISE 3 - INTERPRETING BOXPLOTS - 1
# # EXERCISE 4 - INTERPRETING BOXPLOTS - 2
# # EXERCISE 5 - INTERPRETING BOXPLOTS - 3
# # EXERCISE 6 - LOW QUANTILES
# # EXERCISE 7 - INTERQUANTILE RANGE (IQR)
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# # # ASSESSMENT 1.4: EXPLORATORY DATA ANALYSIS - ROBUST SUMMARIES WITH OUTLIERS

# # EXERCISE 1 - EXXPLORING GALTON DATASET - AVERAGE & MEDIAN



# # EXERCISE 2 - EXPLORING GALTON DATASET - SD & MAD



# # EXERCISE 3 - ERROR IMPACT ON AVERAGE



# # EXERCISE 4 - ERROR IMPACT ON SD



# # EXERCISE 5 - ERROR IMPACT ON MEDIAN



## # # EXERCISE 6 - ERROR IMPACT ON MAD

# # EXERCISE 7 - USEFULNESS OF EDA
# # EXERCISE 8 - USING EDA TO EXPLORE CHANGES