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# Yannique Hecht
# Harvardx: PH125.2 - (2) Data Science: Visualization
# SECTION 1: INTRO TO DATA VISUALIZATION & DISTRIBUTIONS
# ASSESSMENTS


# # # ASSESSMENT 1.1: DATA TYPES

# # EXERCISE 1 - VARIABLE NAMES

[redacted]

# # EXERCISE 2 - VARIABLE TYPE

# # EXERCISE 3 - NUMERICAL VALUES
[redacted]

# # EXERCISE 4 - TABLES
[redacted]

# # EXERCISE 5 - INDICATOR VARIABLES
[redacted]

# # EXERCISE 6 - DATA TYPES - HEIGHTS



# # # ASSESSMENT 1.2: DISTRIBUTIONS



# # # ASSESSMENT 1.2: NORMAL DUSTRIBUTION

# # EXERCISE 1 - PROPORTIONS
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[redacted]

EXERCISE 2 - AVERAGES & STANDARD DEVIATIONS

[redacted]

EXERCISE 3 - APPROXIMATIONS

[redacted]

EXERCISE 4 - 7 FOOTERS & THE NBA

use pnorm to calculate the proportion over 7 feet (7*12 inches)
[redacted]

EXERCISE 5 - ESTIMATING THE NUMBER 7 FOOTERS

[redacted]

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

[redacted]

EXERCISE 7 - LEBRON JAMES' HEIGHT

Change the solution to previous answer

[redacted]

EXERCISE 8 - INTERPRETATION

ASSESSMENT 1.3: QUANTILES, PERCENTILES & BOXPLOTS

EXERCISE 1 - VECTOR LENGTHS

[redacted]

EXERCISE 2 - PERCENTILES

[redacted]

EXERCISE 3 - INTERPRETING BOXPLOTS - 1
EXERCISE 4 - INTERPRETING BOXPLOTS - 2
EXERCISE 5 - INTERPRETING BOXPLOTS - 3
EXERCISE 6 - LOW QUANTILES
EXERCISE 7 - INTERQUANTILE RANGE (IQR)

ASSESSMENT 1.4: EXPLORATORY DATA ANALYSIS - ROBUST SUMMARIES WITH OUTLIERS

EXERCISE 1 - EXXPLORING GALTON DATASET - AVERAGE & MEDIAN

[redacted]

EXERCISE 2 - EXPLORING GALTON DATASET - SD & MAD

[redacted]

EXERCISE 3 - ERROR IMPACT ON AVERAGE

[redacted]

EXERCISE 4 - ERROR IMPACT ON SD

[redacted]

EXERCISE 5 - ERROR IMPACT ON MEDIAN

[redacted]

EXERCISE 6 - ERROR IMPACT ON MAD

[redacted]

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