Introduction to Data Analysis (DATA 1200) Assignment #1 – Preliminary Analysis (10% of Total Grade) Professor: Sam Plati

Mr. John Hughes has been reviewing the <u>Hitters-Cleaned.xlxs</u> dataset. The variables are as follows:

Independent Variables

AtBat - Number of times at bat in 1986

Hits - Number of hits in 1986

HmRun - Number of home runs in 1986

Runs - Number of runs in 1986

RBI - Number of runs batted in in 1986

Walks - Number of walks in 1986

Years - Number of years in the major leagues

CAtBat - Number of times at bat during his career

CHits - Number of hits during his career

CHmRun - Number of home runs during his career

CRuns - Number of runs during his career

CRBI - Number of runs batted in during his career

CWalks - Number of walks during his career

League - A and N indicating player's league at the end of 1986

Division - E and W indicating player's division at the end of 1986

PutOuts - Number of put outs in 1986

Assists - Number of assists in 1986

Errors - Number of errors in 1986

Dependent Variable

Salary - 1987 annual salary on opening day in thousands of dollars

The Ask:

Part A: Python Code in HTML Document (.html) - 2%

Using Python create the **key statistics (i.e. mean, median, etc.)** for the <u>Hitters-Cleaned</u> <u>dataset</u> (i.e. .describe() function)

Part B: PowerPoint (.ppt or pptx) - 8%

- 1. Create a PowerPoint (PPT) presentation that includes the following:
 - a. Cover Page (Title, Name (1st and last) and Student Number)
 - b. Select any <u>four (4) independent variables</u> and explain/justify key insights that were generated in Part A. For example: Mean, Standard Deviation, etc.

Hint: Leverage the Wk2b-BlueJaysExercise

Rubric				
Question	Exemplary (9-10)	Proficient (7-8)	Incomplete (5-6)	Needs Improvement (0-4)
	Python HTML file is complete	Python HTML file is mostly complete. Missing headings or structure.	incomplete incorrect	Python HTML file is missing or incorrect.
Part B	detailed explanation/	variables with insights		Answer is missing or incorrect.

Please post your <u>Word Document (.doc or .docx) and HTML</u>

<u>Python Code</u> via assignments under Assignment #1 by

Friday, January 28th, 2022 @ 11:59 p.m.