STAT 475 HOMEWORK 1

***Due Thursday, September 12, 2024, by 10 PM, sent to******stat475f24@mail.com***

*in a single PDF file with the subject “HW1”. Add your name to the file name. Keep in mind that the plagiarism policy will be strictly enforced!*

**Exercises for Handout 1 material:**

**Exercise 1**. Read the data stored in file ‘car\_prices.xlsx’ into SAS by

(a) Reading instream (copy and paste the data into the SAS program, and replace all tabs with spaces)

(b) Referencing a plain-text data file (copy and paste the data into notepad, replace all tabs with spaces, and save as .txt or .dat file)

(c) Importing a spreadsheet file into SAS library (.xls or .xlsx or .csv file).

In each part, verify that SAS reads these data correctly by running PROC PRINT. Turn in your SAS program as well as a complete SAS output.

**Exercise 2.** Enter the following data for the variables Group and Response into SAS using the DO statement. Verify that SAS reads these data correctly by running PROC PRINT. Turn in your SAS code. Do not turn in the complete SAS output, just a few beginning and a few ending lines of data. Include the OBS column to show that the total number of rows is 1946.

|  |  |  |  |
| --- | --- | --- | --- |
| **Table of group by response** | | | |
| **Group** | **Response** | | Total |
| **yes** | **no** |
| **surgical** | **54** | **1092** | 1146 |
| **nonsurgical** | **31** | **769** | 800 |
| Total | 85 | 1861 | 1946 |

**Exercises for Handout 2 material:** Explain the reason for selecting the correct answer, as well as the reason for NOT selecting EACH of the wrong answers.

* Quiz for Chapter 1 in the textbook: Questions 1, 2, 3, 4, 5, 6, 7, 9, and 10.
* Quiz for Chapter 2 in the textbook: Questions 7 and 9.
* A00-201 Practice Exam: Question 10 (note typos: “libnamerawdata1” should be “libname rawdata1”, and “salse2” should be “sales2”).

**Exercises for Handout 3 material:** Explain the reason for selecting the correct answer, as well as the reason for NOT selecting EACH of the wrong answers.

* Quiz for Chapter 5 in the textbook: Questions 3, 5 (note that answers *b* and *c* are both correct), 6, 7, and 8.
* Quiz for Chapter 16 in the textbook: Question 1.
* A00-201 Practice Exam: Questions 8 (disregard the ruler), 58, 120, 121.

**Exercise 3.** Consider the data set “FIFAplayers.xlsx” which contains some data on 12 FIFA players. Read the data instream by aligning the variables in columns and specifying the column ranges for all variables. Print the data set to show that it was correctly read in.

**Exercises for Handout 4 material:** Explain the reason for selecting the correct answer, as well as the reason for NOT selecting EACH of the wrong answers.

* Quiz for Chapter 7 in the textbook: Questions 3, 4 (ignore lib=library), 5, 6, 7, and 9.
* Quiz for Chapter 16 in the textbook: Questions 5, 6, 7, 8, and 9.
* A00-201 Practice Exam: Questions 7, and 89.