

Homework 1

Due: Thursday, September 30th (before 11:59 pm) on GauchoSpace.

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Instructions: For the General Knowledge Questions, answer as succinctly as possible. For the Programming Assignment, show a partial screenshot of your output. Submit your code separately as a SAS program file.

General Knowledge Questions

1. Which window can you use to check the status messages regarding the executed procedure(s)? Log window
2. How many types of variables exist in SAS? What are they? 2 types of variables; character (\$) and numeric
3. What are the two different types of steps? The 2 steps are DATA set and PROC set.
4. SAS statements begin with a keyword and end with a Semicolon(;)
5. In programming, what is a comment? Statements that are ignored in the compilation and execution of the program. It provides note and information about the code.
6. What is the file extension for a SAS data set? → .sas7bdat
7. What is the maximum character length of a library reference? 8 characters maximum
8. What is the purpose of the DATALINES statement? It allows a small amount of raw data to be placed in a SAS program to test the functionality of other parts of the code
9. Name five default properties of the PRINT procedure.
 - 1. Display observation numbers.
 - 2. Display all variables contained in the data set
 - 3. Display all observations contained in the dataset
 - 4. Display variable values in their "native" format
10. Name the three parts of a statement used to define a library.
 - 1. The libname keyword
 - 2. A user-defined libref name
 - 3. A folder location

Programming Assignment

1. Create a library called **home** that points to your home folder in SAS Studio.

```
libname home "/home/u59557716"
```
2. Use the **chicago** data set located in the **data1** library. Create a **single** report that meets the following criteria:
 - a) Only displays the variables Date, Flight, Boarded, and Transfer
 - b) Displays the following column headers: 'Departure Date', 'Flight Number,' 'Passengers Boarded', and 'Passengers Transferred'
 - c) Displays the total number of passengers boarded at the bottom of the report
 - d) Suppresses the observation column

Departure Date	Flight Number	Passenger Boarded	Passenger Transferred
01MAR95	302	151	11
01MAR95	523	177	20
01MAR95	308	159	20
02MAR95	202	120	15
02MAR95	523	95	24
02MAR95	308	144	11
03MAR95	202	118	27
03MAR95	523	162	8
03MAR95	308	142	8
04MAR95	202	148	11
04MAR95	523	193	17
04MAR95	308	134	8
05MAR95	202	104	6
05MAR95	523	47	9
...

29MAR95	202	130	14
29MAR95	523	171	20
29MAR95	308	124	15
30MAR95	202	159	11
30MAR95	523	153	29
30MAR95	308	121	18
31MAR95	202	111	12
31MAR95	523	120	11
31MAR95	308	105	9
01MAR95	523	177	20
		13251	

3. Create a data set called `tech_co` that contains the following variables: `company`, `yr Founded`, `ceo`, `revenue_2020`. The data is as follows:

Amazon 1994 Jassy 386.1
 Apple 1976 Cook 274.5
 Google 1998 Pichai 181.7
 Microsoft 1975 Nadella 143
 Netflix 1997 Hastings 25

Note that the revenue is in billions of USD. Create a report using your newly created data set. Suppress the observation column, and display 'Company', 'Year Founded', 'Chief Executive Officer', and '2020 Revenue (billions USD)' as column headers. What do you notice about one of the names of the companies?

The company name 'Microsoft' is cut off in the company column and is missing letters.

Company	Year Founded	Chief Executive Officer	2020 Revenue (billions USD)
Amazon	1994	Jassy	386.1
Apple	1976	Cook	274.5
Google	1998	Pichai	181.7
Microso	1975	Nadella	143.0
Netflix	1997	Hastings	25.0