PSTAT 130 W22

## Homework 1

<u>Due:</u> Thursday, January 13<sup>th</sup> (before 11:59 pm PST) on GauchoSpace.

<u>Instructions</u>: 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 is used to edit, execute, and save SAS programs?
- 2. Which keyboard shortcut can be used create a new SAS program?
- 3. What is the key difference between the PROC and DATA steps?
- 4. Within the same SAS program, are the variable names City and City considered to be the same? Why or why not?
- 5. What is the purpose of writing comments within a program?
- 6. What are SAS libraries?
- 7. Why should SAS date variables be of numeric type?
- 8. When using a DATALINES statement, an \_\_\_\_\_ statement is required to help SAS process the raw data.
- 9. Write a statement that is equivalent to the following statement:

```
where score >= 90;
```

10. In the PRINT procedure, which statement is used to assign strings to replace variable names as column headers?

## **Programming Assignment**

- 1. Create a folder called data1 in your home folder in SAS Studio. Now create a library called data1 that points to the data1 folder.
- 2. Create a data set called summer\_olympics that contains the following variables:

```
year, city, country. The data is as follows:
```

```
2024 Paris France
2021 Tokyo Japan
2016 Rio Brazil
2012 London England
2008 Beijing China
2004 Athens Greece
```

2000 Sydney Australia

Create a report using your newly created data set. Suppress the observation column, and display 'Year', 'Host City', and 'Host Country' as column headers. What do you notice about the last observation?

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3. Use the person1 data set located in the data1 library. Create a single report that meets the following criteria:

- a) Only displays the variables for job code, first name, last name, and city (in this order).
- b) Displays the following column headers: 'Job Code,' 'First Name', 'Last Name', and 'Location'.
- c) Only displays observations where the city is Princeton or New York.
- d) Displays the number of observations at the bottom of the report.