**SPSS Assignment Part 1**

Name: Kate

Dataset: NYC\_AirBnB\_listings\_sample.xlsx

**Question/Hypothesis 1: What is the most expensive neighborhood to stay in NYC for one night?**

Variable 1:

* Name in dataset: Price
* Description: Price for one night
* Level of measurement: scale

Variable 2:

* Name in dataset: Neighborhood
* Description: Name of the neighborhood where the place is located
* Level of measurement: Nominal

Filter: Minimum nights to stay = 1

Plan:

1. Make price tab descending to see places with the higher price
2. Make minimum\_nights = 1 to see what place is available for one stay only, crossing the rest with a requirement of more than one night.
3. Use the Automatic Recode of Neighborhood tab to identify what cases I need to get into consideration (not selected cases became blank)
4. After cleaning the data, use a Chart Builder to create a bar chart excluding the non-selected cases that do not go with our requirement: minimum one night with variable neighborhood and price.
5. Visualization showed that Williamsburg is the most expensive neighborhood, with prices from 100 to 2500 per night.

**Question/Hypothesis 2: What type of room has the most reviews on the Internet to better identify the best place to choose.**

Independent variable:

* Name in dataset: Room\_type\_r
* Description: Types of Rooms (1,2,3)
* Level of measurement: Scale

Dependent variable:

* Name in dataset: Number\_of\_reviews
* Description: Number of reviews on the Internet
* Level of measurement: Ordinal

Plan:

1. Use the descending feature for room\_type\_r to see if there are enough rooms for every type to work with.
2. Use “select cases” to cross out rows where availability is 365 = 0 to see what rooms are available at least one day in a year.
3. Change room\_type from Nominal to Ordinal.
4. Perform Kruskal-Wallis Test that shows how many reviews every type of room has (Grouping Variable: room\_type\_r)
5. Use Chart builder to see a graph with .jitter function to see what room type has the most reviews available to identify the better possibility of choosing the best place to stay in NYC.
6. The analysis shows that the most reviews we can find are for the 1 room type with the most reviews on the Internet that gives more possibility to choose the right place to stay in NYC.