**Project 1– Written Report**

Natacha Robbins Hypothesis #4

1. Is there a significant difference in Rating by Types or Effects (effect\_1)?

* What is the average(mean) Rating reported by Type and Effect?
* Use data to get the Rating by Type and the effect to see if they are consistent.

1. Do users feel different effects when they use the same type of cannabis(yes)?

After carefully cleaning, extracting, and organizing the dataset. We created columns for flavors, effects, breeders and locations. Five columns were created for the effects, and they were labeled accordingly (effect\_1, effect\_2, effect\_3, effect\_4, and effect\_5). In total when all effects were individually separated 16 different effects were discovered. Under column labeled effect\_1 there were 14 total effects portrayed.

1. Is there a significant difference in Rating by Types or Effects (effect\_1)?

* What is the average(mean) Rating reported by Type and Effect?
* Use data to get the Rating by Type and the effect to see if they are consistent.

Type:

* The average rating by Type (hybrid, Indica, and sativa) is almost equal in all Types.
* See the code below to see the mean, min and max of all Type. The average of the Types is between 4.29 and 4.30; and 4.91 and 4.95.

A screenshot of a computer program

Description automatically generated

Effect\_1:

* The average rating by effect\_1 (total 14) is almost equal in all Types.
* See the code below to see the mean, min and max of all effects in effect.
* The Dry effect has the lowest mean at 4.00. They only had a rating count of one (1).
* The Creative effect has the highest mean at 4.47. They had a rating count of 80.

A screenshot of a computer

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Conclusion is there is not a significant difference between ratings, as you can see in both charts of coding.

1. Do users feel different effects when they use the same type of cannabis(yes)?

* The answer is “Yes’ without speaking to the population and reviewing just the dataset.
* The visualization below shows population in dataset does feel different effects by Type.

A screenshot of a computer screen

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1. Further analysis can be completed with the proper amount of time to explore the dataset, one example would be medical. In order to help consumers know exactly which ‘Type’ will help them find the effect they are looking for.