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**Title: Module 3 Project**

**Executive Summary Report 3**

# Key findings

There are three aspects of this assignment as follows:

Provide an analysis of descriptive characteristics of the data set provided by your instructor. This includes pertinent statistics including counts, cumulative counts, and frequency, percentages, etc. Include R console screen shots to support your observations and conclusions. Below is a sample excerpt.

A systemic review of the data collection of ***inchBio*** disclosed that the research was dominated by two major type of species that are; Bluegill and largemouth bass

Species RelFreq

1 Black Crappie 36

2 Bluegill 220

3 Bluntnose Minnow 103

4 Iowa Darter 32

5 Largemouth Bass 228

6 Pumpkinseed 13

7 Tadpole Madtom 6

8 Yellow Perch 38

These two species accounts to almost 2/3th of the total count from the dataset.

On that reaction, many smaller groups of largemouth bass were generated in order to the study various aspect of this fish species.

> headtail(temp)

netID fishID species tl w tag scale

356 14 85 Largemouth Bass 68 3.5 TRUE

357 3 89 Largemouth Bass 338 NA g0996 TRUE

358 1 90 Largemouth Bass 356 NA y06073 TRUE

581 131 913 Largemouth Bass 251 180.0 TRUE

582 131 914 Largemouth Bass 378 646.0 1709 TRUE

583 131 915 Largemouth Bass 325 377.0 1785 FALSE

From the above head and tail values for the Largemouth Bass subset was developed to examine the length characteristics Largemouth Bass with a weight ranging from 3.5 to 377 and a length greater than 60. Notice that in this subset, there were 227 documents.

Provide the executive with visualizations (at least 3) in that help them see the key characteristics you want to highlight. They can be boxplots, histograms, frequency and probability distributions, or bar plots (bar charts). A pareto plot as illustrated below must be included in this part of your report. Include screen shots of your plots to support your findings and conclusions. The goal is not only to present your visual results, but also to explain the significance of them.

Finally, provide a clear two to three sentence paragraph summary of the key points that you want the audience to walk away with regarding your analysis. This summary should present accurate analysis and be supported by the data presented in the rest of the report.

From the dataset it could be analyze that the

Bibliography

Below link were used to help solving any blocker in R scripting.

1. <https://www.geeksforgeeks.org/adding-elements-in-a-vector-in-r-programming-append-method/>
2. <https://discuss.analyticsvidhya.com/t/how-to-remove-value-from-a-vector-in-r/2975>
3. <https://www.dummies.com/programming/r/how-to-work-with-variable-names-in-r/>
4. <https://www.youtube.com/watch?v=rgAvJmvfA2c>
5. R in Action: Data Analysis and Graphics with R By Robert Kabacoff

Appendix