CHAPTER FOUR: DATA ANALYSIS AND PRESENTATION

4.0 Introduction

- Provide a brief overview of the chapter.

- Mention the data sources, analysis techniques, and the objectives that guide the analysis.

- State how the analysis aligns with your research questions or hypotheses.

4.1 Objective One Data Analysis

4.1.1 Exploratory Data Analysis (EDA)

- Present a preliminary exploration of the data.

- Include descriptive statistics (mean, median, mode, standard deviation, etc.).

- Use graphical methods such as histograms, box plots, and scatter plots to visually represent the data.

- Discuss any patterns, trends, or anomalies observed.

4.1.2 Inferential Analysis

- Perform statistical tests related to your first objective (e.g., t-tests, ANOVA, regression analysis).

- Explain the hypothesis being tested, the method used, and the rationale behind choosing that method.

- Present the results, including p-values, confidence intervals, and test statistics, with proper interpretation.

4.1.3 Discussion and Conclusion

- Summarize the key findings from both exploratory and inferential analysis.

- Discuss how the findings support or refute the research hypothesis related to objective one.

- Link the findings to existing literature or theory.

- State any limitations or assumptions made in the analysis.

4.2 Objective Two Data Analysis

4.2.1 Exploratory Data Analysis

- Repeat the process of exploratory data analysis for objective two, focusing on data specific to this section.

- Provide insights using visual and descriptive tools.

4.2.2 Inferential Analysis

- Perform statistical tests pertinent to the second objective (e.g., chi-square test, correlation analysis).

- Present the results, along with interpretation and statistical significance.

4.2.3 Discussion and Conclusion

- Summarize the results from the analysis related to objective two.

- Discuss the relevance of the results and how they relate to your hypotheses or research questions.

- Compare the results with previous studies.

4.3 Objective Three Data Analysis

- Follow the same structure for analyzing data related to objective three, including both exploratory and inferential methods.

4.4 Summary of Key Findings

- Provide a comprehensive summary of the key findings from all objectives.

- Highlight any trends or patterns that emerged across different analyses.

- Reflect on how these findings contribute to the overall research objectives or problem statement.