Introductory Data Analysis Using SPSS

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1. Data Handling:
- Identify and apply appropriate techniques for handling data in SPSS, such as saving, importing, data entry, labeling, recoding, transposing, and merging variables and cases.
- Demonstrate proficiency in manipulating data within SPSS to meet specific research requirements.

2. Diagrammatic Representation:
- Create various types of diagrams and charts using SPSS, including bar diagrams, pie diagrams, frequency tables, histograms, scatter diagrams, and box plots.
- Interpret and analyze the information presented in these diagrammatic representations to make informed decisions.

3. Descriptive Statistics:
- Calculate and interpret measures of central tendency (mean, median, mode) and variability (standard deviation, skewness, kurtosis) using SPSS.
- Conduct correlation analysis using Karl Pearson's and Spearman's Rank Correlation coefficients, and perform normality tests and reliability analysis.

4. Methods of Curve Fitting:
- Apply curve fitting techniques in SPSS to fit linear and non-linear curves to data sets.
- Evaluate the strengths and limitations of different curve fitting methods and make informed decisions based on the results obtained.