

# Quantitative data analysis and interpretation methods

This slide depicts the first essential stage of quantitative data analysis and interpretation i.e. data preparation where raw data is transformed into meaningful and readable information and also discusses about the various methods to conduct analysis. There are four steps of data preparation: data validation, data editing, coding & data entry and data transformation.

## Data preparation

Process of transforming raw data into something meaningful and understandable. The process of preparing data involves four steps.



### Data Validation

- 1. Fraud detection by verifying whether all respondents were actually interviewed
- 2. Evaluate responses to identify if they comply with the research requirements
- 3. Add text here



### Data Editing

- 1. Data is verified for
  - Accuracy
  - Consistency
- 2. Add text here



### Coding & Data Entry

- 1. Procedure for easy data analysis
- 2. Includes
  - Grouping
  - Assigning values to survey feedbacks, e.g. Male = 1, Female = 2
- 3. Add text here



### Data Transformation

- 1. Transforming data into new forms
- 2. E.g. dividing a five-point Likert scale into three sections: good, bad and neutral
- 3. Add text here

## Data Analysis Methods

### Descriptive Statistical Method

- 1. Used to analyze single variable
- 2. Includes methods
  - Mean
  - Median
  - Add text here

### Inferential Statistical Method

- 1. Evaluates the relationship between several variables to provide results and draw inferences
- 2. Includes methods
  - Correlation
  - T-Test analysis
  - Add text here

# Data Analysis And Interpretation Questions Answers

**Frances K. Stage**



## **Data Analysis And Interpretation Questions Answers:**

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