

Steps for doing a case study

Research Study

1. Defining the problem
 - a. What parameters are associated with your study?
 - b. How many observations are necessary for a valid comparison?
 - c. What type of experimental design would produce the most effective comparison?
 - d. What are the valid statistical procedures for making the comparisons?
 - e. What type of information should be included in a final report to determine the evaluation?
2. Collecting the data
 - a. How did we collect the data?
 - b. Clean the data.
3. Summarizing the data
4. Analyze the data
5. Report the conclusions
 - a. Statement of objective for study
 - b. Description of study design and data collection procedures
 - c. Numerical and graphical summaries of data set
 - d. Description of all inference's methodologies
 - i. T and F-test?
 - ii. T based Confidence Interval on mean
 - iii. Chi-square based on Confidence Interval on Standard Deviation
 - iv. Verification that all necessary conditions for using inference techniques were satisfied
 - e. Discussion of results and conclusions
 - f. Interpretation of findings relative to previous steps
 - g. Recommendations for future studies
 - h. List of data sets
 - i. List of references