

**Project Title :** A Selection of Appropriate Statistical Procedures  
for Social Sciences Research

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### Abstract

This study aimed to develop a model for selection of appropriate statistics for social sciences research. One hundred and fifty social sciences research paper were analyzed to evaluate problems on research and on selection of appropriate statistics. The obtained information when considered with research principles and theories of statistical analysis led to the determination of significant variables for selection of appropriate statistics and construction of a model table. Major results of this study were summerized as follows.

1. Most social sciences research which were carried out, aimed to describe nature of the variables under study by using the surveyn research. Followed were research that aimed to explain the variables relationship, test of differences between populations and search for causal relations respectively. Problems on research found by this study were several which had an effect on research quality. As for statistical procedure, the major problem found was selection of statistics for data analysis not in line with the research objective.

2. The important variables leading to the ability to select the appropriate statistics for data analysis were : the research purpose, the characteristics of variables under study, the nature of the populations, samples, and knowledge on statistical technique for data analysis.

3. The purpose of social science research can be classified into six categories, namely, the research aiming to describe the variables, to test the difference between populations, to predict or explain the relationships between variables, to organize the systems or structures of group of variables, to find the causal relationship and to develop/list theories by using simulation technique of invention. All of these research purpose, together with details of variables and population, led to selection of appropriate statistics for a certain research as indicated in the developed model table.