

## THE IMPORTANCE OF ANALYTICAL SKILL IN CONDUCTING QUANTITATIVE RESEARCH

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Quantitative research is an impartial, organized practical examination of observable event using of statistical methods. (Mariano, n.d.). It aims to obtain an unbiased result, give a reasonable decision and propose suitable solutions to a problem defined therein with the use of numerical data.

To effectively solve problem, one must have analytical skills. This will let him evaluate both simple and complex problems. Analytical skill is organizing, collecting, visualizing and assimilating data. It is the ability that help in making conclusion by analyzing patterns and finding solutions to a problem. (Khullar, 2021). It includes underlying abilities like attention to detail, critical thinking, decision-making, and researching skills in order to examine a question or problem and reach a possible solution. (Gapo, 2020).

In some ways, researcher relies on numerical data to reach on a decision that can answer a research question. Data that are clearly presented through tables, graphs and figures help a researcher come up with a right interpretation leading to a valid conclusion.

However, a precise interpretation of numerical data is hardly achieved if one lacks the analytical skill to treat and analyze the gathered data accurately. Erroneous data findings may yield from not paying the right attention to data obtained during the conduct of the study. Results and findings are critical to a researcher since recommendations and possible solutions to the problem are based on the conclusions formulated through these findings.

Oftentimes, the presumptions that the researcher has at the beginning of the research greatly affects his decisions. It is important to have analytical skills in conducting quantitative research so that the researcher can avoid any biases in drawing conclusions. Objectivity in treating the gathered data avoids errors in the researcher's decision making.

Keen observation on the collected data leads the researcher in finding reasons why there is even a slight disparity in the results. He can easily recognize an incidental finding versus a truthful result. Deeply analyzing the data keeps the researcher focused on the true results and avoids neglecting the facts which the results and findings are showing him.

Moreover, an analytic researcher can easily read on patterns to predict possible outcomes based on his findings. This helps him draw valid conclusions based on the factual results he obtained during the research process. Researchers critically considers every single data he has on hand to analyze and evaluate the problem so that he can make an unbiased and impartial judgement.

Attention to details, critical thinking skills and sound judgement are essential analytical skills a researcher must have to objectively analyze the data collected through quantitative research. This enables the researcher to be objective, result-oriented and have a good judgement so he can reach to a valid conclusion. Valid conclusive findings make the research study more reliable and credible. Thus, making it a strong, replicable and useful research that can be utilized as reference of future researchers.

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