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5. Statistical analysis

It is a component of data analytics. In the context of business intelligence (BI), statistical analysis involves collecting and scrutinizing every data sample in a set of items from which samples can be drawn. A sample, in statistics, is a representative selection drawn from a total population.

Importance of Statistical Analysis:

The role of Statistics in Research. Statistics is the science of collecting, analyzing and making inference from data.... Statistical methods and analyses are often used to communicate research findings and to support hypotheses and give credibility to research methodology and conclusions.



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5.2 Data Analysis

It is the process of systematically applying statistical and/or logical techniques to describe and illustrate, condense and recap, and evaluate data. An essential component of ensuring data integrity is the accurate and appropriate analysis of research findings.



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5.3 Classification of Data

It is an ordered set of related categories used to group data according to its similarities. It consists of codes and descriptors and allows survey responses to be put into meaningful categories in order to produce useful data. A classification is a useful tool for anyone developing statistical surveys.



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5.4 Mathematical Expression?

Mathematics is made up of symbols that can be combined to make statements about the world around us. Sometimes those symbols represent numbers and sometimes they are more abstract, representing spaces, symmetries or groups. Mathematical expressions are formed when these symbols are combined with mathematical operations such as addition, subtraction, or multiplication to name just a few.



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5.4.1 write Mathematical equation on MS Word

- Select the Insert tab on the ribbon. ...
- Find the Equation button on the far right. ...
- Click the icon to insert an equation. ...
- Insert special formatting. ...
- Continue typing to complete the equation. ...
- Move the equation on the page. ...
- Write equations by hand



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5.5 Computer Programming

A computer is a programmable machine. This means it can execute a programmed list of instructions and respond to new instructions that it is given. Computer Programming is the process of developing and implementing various sets of instructions to enable a computer to do a certain task. Programs are written to solve problems or perform tasks on a computer.

- Programmers translate the solutions or tasks into a language the computer can understand. As we write programs, we must keep in mind that the computer will only do what we instruct it to do. Because of this, we must be very careful and thorough with our instructions.



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5.6 Compiler

- A compiler is a special program that processes statements written in a particular programming language and turns them into machine language or "code" that a computer's processor uses. After you write a program, your source language statements are compiled into machine code that is stored as an executable file.