REPORT ON THE DOMAIN: HORTICULTURE

1.Introduction:

1.1 Overview

Horticulture is an aesthetic science that deals with the important crops which are grown in the gardens e.g. vegetable crops in vegetable garden, fruit crops in fruit orchards. The word Horticulture is derived from two Latin words, Hortus means garden and Culture means knowledge of growing these crops.

This project is the data visualization of the domain ***HORTICULTURE*** about the Area and Production of the of Fruits and Vegetables in the year 2009-2010 and 2010-2011. Data visualizations are used to **discover unknown facts and trends**. You can see visualizations in the form of line charts to display change over time. Bar and column charts are useful for observing relationships and making comparisons. A pie chart is a great way to show parts-of-a-whole, and maps are the best way to share geographical data visually.

1.2 Purpose

The Tableau Tool is the leading in the arena of data visualization and the users from different industries and backgrounds. Visualization of data will helps in better understanding and correct decision-making process in all organizations. By this Tableau Tool, we can easily analyse the data. My project is on the domain Horticulture, with the topic Area and Production of the Fruits and Vegetables in the year 2009-2010 and 2010-2011. This method of data visualisation using Tableau which aims to help farmers or farm managers gain a better understanding of the farming data.By visualisation, this software can help in reducing the work load in the farm data managment process and analysis. Using the visualisations created, farmers can gain a better understanding of the relation between data.

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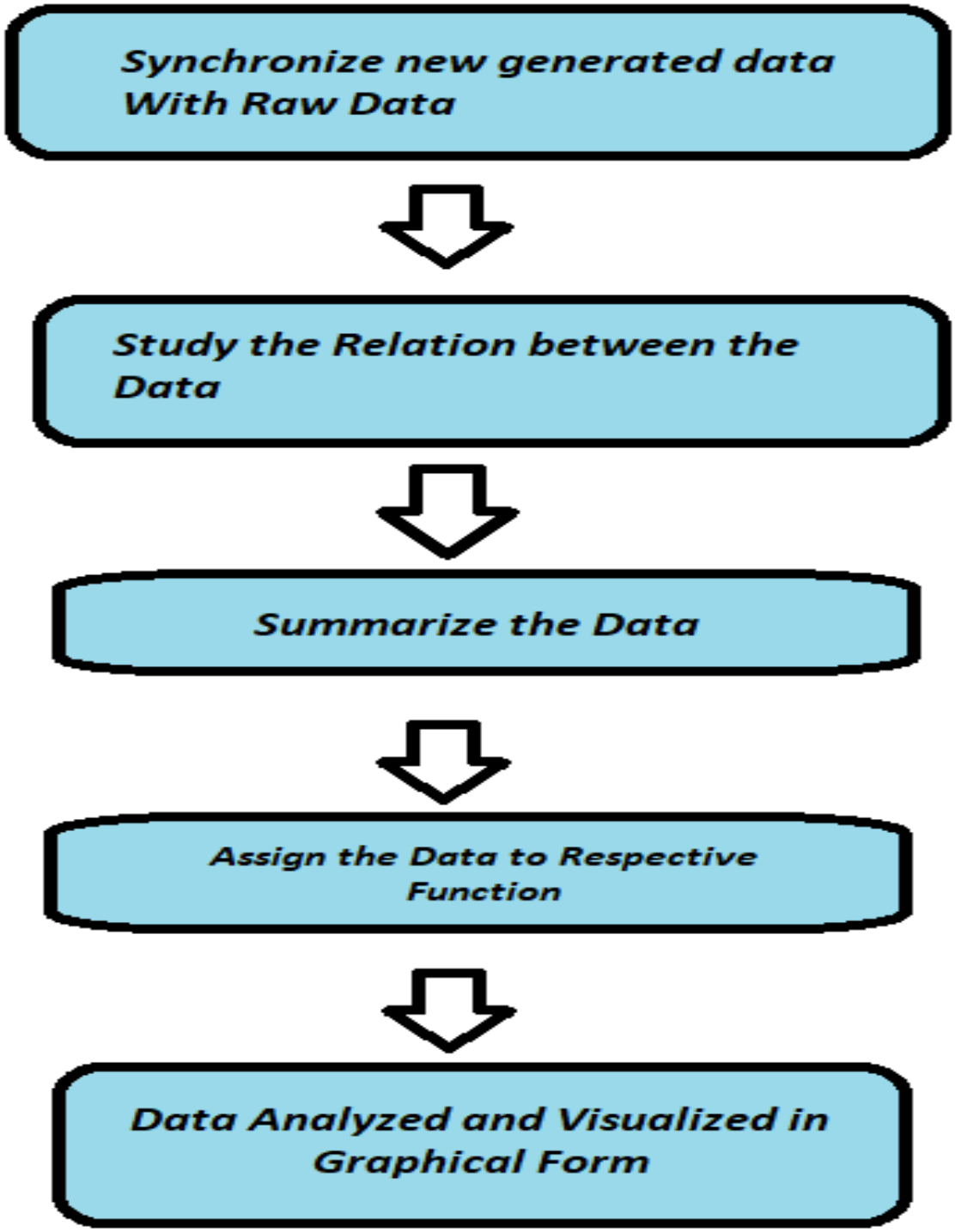
Flow Chart:



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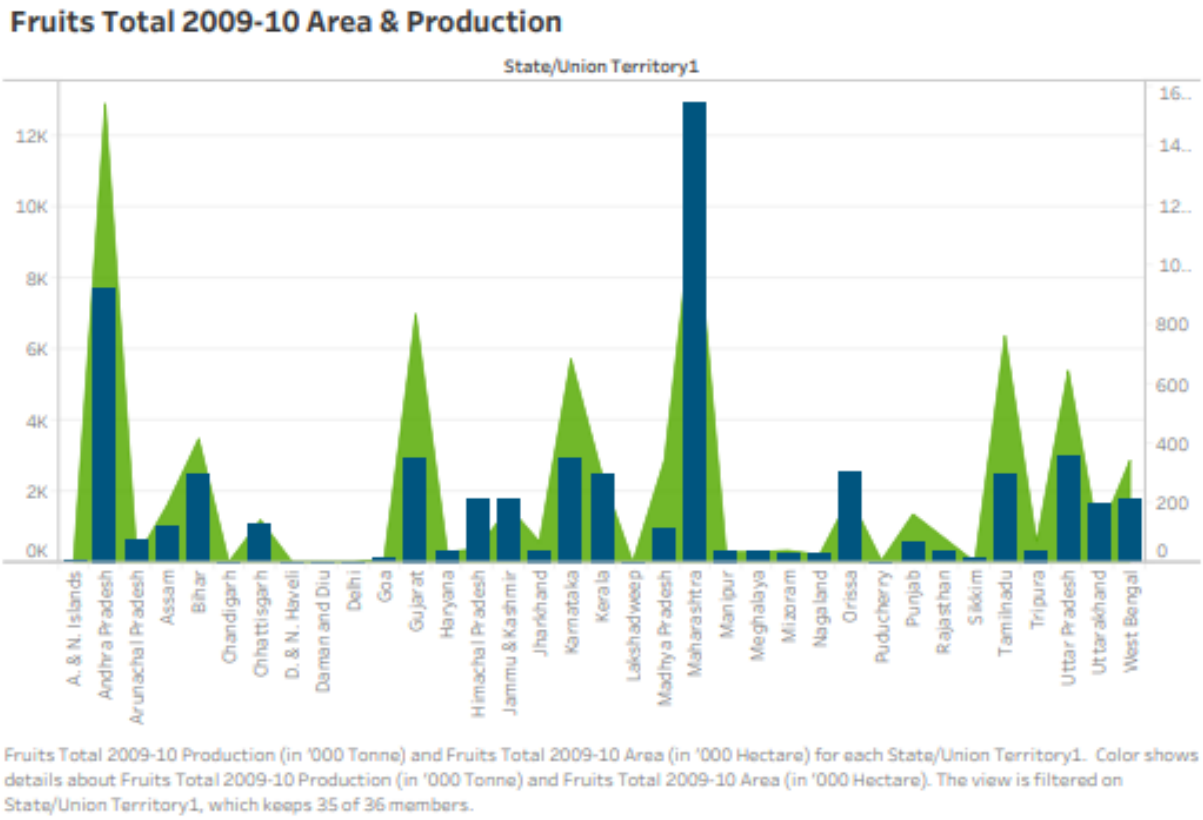
Result:

This application is compared with Microsoft Excel which has the same fuctionality of visualising data. A similar dataset is used to create pie charts,Bar Graphs, visuals in Excel and Tableau application. The results are then studied and compared. The Tableau Tool is the leading in the arena of data visualization and the users from different industries and backgrounds. Visualization of data will helps in better understanding and correct decision-making process in all organizations. This application can perfectly replicate the function of exsiting visualisations tools, such as Microsoft Excel. Futhermore, this aplication can replace exsisting tools and provide better visualisations.

SAMPLE PICTURE OF WORK:



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CONCLUSION:

The massive amount of farming data requires precise methods and tools to obtain correct analysis results. The method presented in this paper is data visualisation which aims to help farmers or farm managers gain a better understanding of farming data. The application developed can perfectly replicate the function of existing visualisation tools, such as Tableau. By visualisation, this application can help in reducing the work load in the farm data management process. Using the graph created, farmers can gain a better understanding of the relation between data. Farmers can also use graph visualisation to make a prediction, e.g. fuel consumption of a tractor for the coming week. This process can help increase the productivity and work quality of farmers. An increase in productivity can ultimately help boost the economy of the country.

BIBILOGRAPHY:

[1] https://www.data.gov.in

[2] Software Used: TABLEAU