

Assignment No. 9

Problem Statement :

Perform the following data visualization operation using Tableau on Adult, Iris dataset or retail dataset.

- 1> 1D (Linear) data visualization
- 2> 2D (Planar) data visualization
- 3> 3D (Volumetric) data visualization
- 4> Temporal data visualization
- 5> Multidimensional data visualization
- 6> Tree/Hierarchical data visualization
- 7> Network data visualization

Theory

Data visualization is viewed by many disciplines as a modern equivalent of visual communication.

It involves the creation & study of the visual representation of data, meaning "Information that has been abstracted in some schematic form, including attributes or variables for the units of information".

Tableau :

- Tableau is Business Intelligence Tool For visually analyzing the data.
- Users can create & distribute an interactive & shareable dashboard, which depict the trends, variations & density of the data in the form of graphs & charts.
- Tableau can connect to files, relational & big data sources to acquire & process data.

Features :

1) Speed of Analysis :

As it does not require high level of programming expertise, any user with access to data can start using it to derive value from the data.

2) Self - Reliant :

Tableau does not need a complex software setup. The desktop version which is used by most users is easily installed & contains all the features needed to start & complete data analysis.

3) Visual Discovery :

The user explores & analyzes the data by using visual tools like colors, trends, lines, charts & graphs.

4) Blend Diverse Data Sets :

Tableau allows you to blend different relational, semi-structured & raw data sources in real time, without expensive up-front integration costs.

5) Architecture Agnostic :

Tableau works in all kinds of devices where data flows. Hence, the user need not worry about specific hardware or software requirements to use Tableau.

Conclusion :

Thus, I have learnt how to visualize the data in different types of data visualization by using Tableau Software.