

# Tableau

## Assignment 1





# What is Tableau?

Tableau is a powerful and fastest growing data visualization tool used in the Business Intelligence Industry.

It helps in simplifying raw data in a very easily understandable format.

It is a tool that helps making Big Data small, and small data insightful and actionable.

# Start page options of Tableau desktop

The screenshot shows the Tableau Desktop start page. At the top, the title bar reads "Tableau - Book1 - Tableau licence expires in 14 days" with standard window controls on the right. Below the title bar is a menu bar with "File", "Data", "Server", and "Help".

The main interface is divided into three primary sections:

- Connect (Left Sidebar):** A dark blue sidebar with a gear icon at the top. It contains sections for "Search for Data" (with "Tableau Server" listed), "To a File" (listing Microsoft Excel, Text file, JSON file, Microsoft Access, PDF file, Spatial file, Statistical file, and More...), "To a Server" (listing Microsoft SQL Server, MySQL, Oracle, Amazon Redshift, and More...), and "Saved Data Sources" at the bottom. A right-pointing arrow is visible at the bottom of the sidebar.
- Open (Center):** A large light gray area with the heading "Open". It features a prominent orange link "Open a Workbook" in the upper right. At the bottom, under the heading "Sample Workbooks", there are three thumbnails: "Superstore" (a bar chart), "Regional" (a map of the UK), and "World Indicators" (a stacked bar chart). An orange link "More Samples" is located to the right of these thumbnails.
- Discover (Right Sidebar):** A light gray sidebar with the heading "Discover". It includes a "Training" section with a play icon and links for "Getting started", "Connecting to data", "Visual analytics", "Understanding Tableau", and "More training videos...". Below this is a "Resources" section with a folder icon and links for "Get Tableau Prep", "Blog - Read latest post", "The NEW community forums", and "Sample data for relationships".

The Windows taskbar is visible at the bottom, showing the Start button, several application icons (including Chrome and Excel), the system clock displaying "17:44" and "24/08/2021", and a language indicator set to "ENG".



## Start page consist of 3 options:

**1.Connect:**Connect sections allows tableau to connect with desktop files(different file type) and different database type.File type can be ms excel, pdf, csv, json, statistical file etc

**2.Open:**We can open our existing workbook or workbook in which we have work earlier.

**3.Discover:**In the discover section, we get short tutorial provided by tableau community. Important blogs or also some important work done by all contributor in tableau community



# Process flow of BI project

It consists of the following steps:

1. Business understanding
2. Data understand
3. Data Preparation
4. Modeling
5. Evaluation
6. Deployment.



**1.Business Understanding:**In this we need to understand our problem statement and domain of the problem so we can work on the data.

**2.Data Understanding:**In this step we summarize the data by identifying key characteristics, such as data volume and total number of variables in the data. Understand the problems with the data, such as missing values, inaccuracies, and outliers

**3.Data Preparation:**Data preparation is the process of cleaning and transforming raw data prior to processing and analysis.



**4.Modeling:**Data modeling is the process of creating a visual representation of either a whole information system or parts of it to communicate connections between data points and structures.

**5.Evaluation:**Model evaluation aims to estimate the generalization accuracy of a model on future (unseen/out-of-sample) data.

**6.Deployment:**The concept of deployment in data science refers to the application of a model for prediction using a new data.