

TABLEAU

Edition 2025

TABLEAU DESKTOP

Tableau Desktop is a powerful and versatile data visualization and business intelligence tool widely used by data analysts to analyze, explore, and present data in interactive and meaningful ways. It empowers users to transform raw data into insightful visualizations, enabling data-driven decision-making and storytelling. With its user-friendly interface and robust features, Tableau Desktop can significantly enhance your ability to explore complex datasets, uncover trends, and communicate insights effectively.

Whether you're working with structured, semi-structured, or unstructured data, Tableau Desktop provides the flexibility to connect to various data sources, create dynamic dashboards, and perform advanced analytics seamlessly. Its drag-and-drop functionality, interactive filters, and ability to handle large datasets make it an essential tool for data professionals across industries.

Module 1: Tableau Interface

- What is tableau
- Architecture of tableau
- Features of tableau
- Installation of tableau desktop/public
- Interface of tableau (layout, toolbars, data pane, analytics pane etc)
- How to start with tableau
- Connect to data source
- Types of Data source
- Connect to Text File, Excel file, PDF, MS SQL Server, Spatial Files, etc.
- Introduction to the various file type
- How to create data visualization using tableau feature “show me”
- Working with workbook data and worksheet
- How to create calculated field
- Working with workbook data and worksheet
- Basic data visualization/graph
- Highlight table

Module 2: Data Viz/ Charts/ Graphs

- Bar Chart, Stacked Bar Chart

- Bar in Bar Chart
- Combo Chart
- Line Chart, Area Chart
- Blended Axis
- Dual Axis Chart
- Lollipop Chart
- Pie Chart, Donut Chart
- Histogram Chart
- Animated Graph
- Map Chart and Custom Map Chart
- Pareto Chart
- Waterfall Chart
- Gant Chart
- Dumbbell Chart
- Sparklines
- Tiled and Hexagonal Maps
- Box Plots
- Explain latitude and longitude

Module 3: Data Preparation

- Connecting to different Data Source
- Live vs Extract Connection
- Creating Extract
- Refreshing Extract
- Incrementing and Full Extract
- Refreshing Live
- Pivoting and splitting
- Data Interpreter: Clean Unstructured Data
- TWB vs TWBX
- How to create a packaged workbook
- Difference between .tde and .hyper file

Module 4: Advanced Data Preparation

- Join Tables in Tableau- Inner, Left, Right, Outer
- Complex Join
- Referential Integrity
- Union
- Data Blending and Relationship Model
- Cross DB Join
- Custom Sequel Query writing

Module 5: Filtering & Managing Your Data

- Filter- Types of filter
- Action filter

- Global filter
- Normal filter
- Dimension filter
- Measure filter
- Condition based filter
- Advanced filter using wild card
- Right click filtering
- Top & Bottom N Filter
- Filtering Order of Operation

Module 6: Basic & Advanced Calculations In Tableau

- Date Functions
- String Functions
- Logical Functions
- Aggregate Functions
- Table Calculations
- User Functions
- LOD's- Fixed, Include, Exclude
- Window Functions
- Dynamic Calculations using Parameters

Module 7: Data Grouping

- Groups
- Sets
- Conditional sets, sets to find Top and Bottom
- Hierarchies
- Bins

Module 8: Dashboard & Reporting

- Creating Dashboard
- Floating and Tiled Objects
- Sizing of Dashboard
- Dashboard Actions
- Container Lay outing
- Story making

Module 10: Tableau Projects

- 5 to 6 Basic to Advanced level projects consisting all functionalities and Advanced LOD calculations.
- Projects having advanced MAP.

TABLEAU SERVER

Tableau Server is an enterprise-level platform designed for sharing, publishing, and managing Tableau dashboards and reports in a secure and collaborative environment. It enables organizations to scale their data analytics efforts by providing a centralized platform for accessing and interacting with data visualizations created in Tableau Desktop.

- Installation of Tableau Online/ Cloud
- Publishing Dashboard
- Adding Users
- Setting Permissions to different users
- Roles on server
- Extract refresh
- Site status Dashboard
- Row level security (RLS)
- Alerts, subscriptions and T links

Course/ Study Links

Tableau Desktop

- ❖ **Full Course**
- ❖ **Tableau Theory concepts**
- ❖ **Tableau 2022 Advanced**
- ❖ **Tableau Advanced Calculations**
- ❖ **Tableau Dashboards Design Tutorial**

Tableau Server

- ❖ **Introduction to server**
- ❖ **Tableau server**

Tableau End to End Projects:

Intermediate Level Projects (To begin with after completion of course)

- ❖ Car Sales Analysis
- ❖ Electric Vehicle Analysis
- ❖ Road Accident Analysis
- ❖ HR Analysis

Advanced Level Projects (To begin with after intermediate level Projects)

- ❖ Pizza Sales Analysis (SQL + Tableau)
- ❖ Bank Loan Analysis (SQL + Tableau)
- ❖ Sales Analysis

- ❖ **Power BI Material - 2025 Edition** - https://topmate.io/data_tutorials/536295
- ❖ **Tableau Material - 2025 Edition** - https://topmate.io/data_tutorials/492381
- ❖ **SQL Material - 2025 Edition** - https://topmate.io/data_tutorials/492624

The expert in anything was once a beginner