

Data Visualization using Tableau

Lesson 1: Introduction to Tableau Prep

- Tableau Prep Builder User Interface
- Data Preparation techniques using Tableau Prep Builder tool
- Hands-On:
 - Build a simple data flow using Tableau Prep Builder tool
 - Group and Replace feature using Tableau Prep Builder tool
 - Pivoting data using Tableau Prep Builder tool
 - Aggregate data using Tableau Prep Builder tool
 - Perform Unions and Joins using Tableau Prep Builder tool

Lesson 2: Data Connection with Tableau Desktop

- Features of Tableau Desk
- Connect to data from File and Database
- Types of Connections
- Joins and Unions
- Data Blending
- Tableau Desktop User Interface
- Basic project: Create a workbook and publish it on Tableau Online

Lesson 3: Basic Visual Analytics

- Visual Analytics
- Basic Charts: Bar Chart, Line Chart, and Pie Chart
- Hierarchies
- Data Granularity
- Highlighting
- Sorting
- Filtering
- Grouping
- Sets

Lesson 4: Calculations in Tableau

- Types of Calculations
- Built-in Functions (Number, String, Date, Logical and Aggregate)
- Operators and Syntax Conventions
- Table Calculations
- Level Of Detail (LOD) Calculations
- Using R within Tableau for Calculations

Lesson 5: Advanced Visual Analytics

- Tool tips
- Trend lines
- Reference lines
- Forecasting
- Clustering

Lesson 6: Geographic Visualizations in Tableau

- Introduction to Geographic Visualizations
- Manually assigning Geographical Locations
- Types of Maps
- Spatial Files
- Custom Geocoding
- Polygon Maps
- Web Map Services
- Background Images

Lesson 7: Advanced Charts in Tableau

• Learning Objective: Learn to plot various advanced charts in Tableau Desktop. Topics:

• Box and Whisker's Plot

• Bullet Chart

• Bar in Bar Chart

• Gantt Chart

• Waterfall Chart

• Pareto Chart

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• Control Chart

• Funnel Chart

• Bump Chart

• Step and Jump Lines

• Word Cloud

• Donut Chart

Lesson 8: Dashboards and Stories

• Learning Objective: Build Dashboards and Stories within Tableau. Topics:

• Introduction to Dashboards

• The Dashboard Interface

• Dashboard Objects

• Building a Dashboard

• Dashboard Layouts and Formatting

• Interactive Dashboards with actions

• Designing Dashboards for devices

• Story Points