



### Introduction to Tableau:

- What is Tableau?
- Features of Tableau **2018**
- Introduction to the various file types
- Quick introduction to the user interface in Tableau
- How to create data visualization using Tableau feature “Show Me”
- Reorder & remove visualization fields
- How to sort & filter data
- How to create a calculated field
- Working with workbook data & worksheets
- How to create a packaged workbook

### Various Charts, Maps & Dashboards:

- Creating various charts such as
  - Heat map
  - Box and Whisker plot
  - Bar Chart, Column Chart.
- Time series charts
  - Time series hands-on
- Bullet graphs
  - What are bullet graphs?
  - Bullet graphs hands-on
- Scatter plot
  - What is scatter diagram?
  - Introduction to correlation analysis
  - Introduction to regression analysis
  - Scatter diagram hands-on
  - Pre-defined analytics
- What are histograms?
  - Histogram hands-on
- Maps in Tableau
  - Types of maps in Tableau
  - Maps hands-on
  - Polygon Maps
- Dashboards Hands-On in Tableau
- Creating dashboards & working with dashboard

### Data Visualization Principles:

- What is data visualization? Tufte’s Principles on visualization
- Data Interpretation
- Pivot Tables
- Split Tables
- Responsive Tool Tips
- Radial & Lasso Selection
- Right Click Filtering



### Creating calculated fields

- Logical functions
- Case-if functions
- ZN function
- Else-if function
- Ad-Hoc Calculations
- Manipulating text-left and right functions

### Time series, aggregation and filters

- Working with time series
- Understanding Aggregation, Granularity and level of details
- Creating area chart and learning about highlighting
- Adding quick filters

### Joining and Data blending

- Understand left, right, inner, outer joins
- Joins with duplicate values
- Join data vs Blending data in Tableau
- Editing blending relation
- Working with Groups
- Creating dynamic sets
- Combining sets
- Publishing Dashboards to the server
- Difference between Tableau online and Tableau server

### Connecting to various data sources:

- Connecting with WMS server
- Adding Background Image
- Creating Workbook Data Extract
- Tools for sharing information
- Publishing our Workbooks in Tableau Server
- Connecting Tableau with Tableau Server