

Introduction to Tableau

- 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
- Top Chart in Tableau
- Introduction to the various file type
- Quick Introduction to the user interface in tableau
- How to create data visualization using Tableau feature “show me”
- Reorder and Remove Visualization Fields
- How to create calculated field
- How to perform operation using cross tab
- Working with workbook data and Worksheet

Data Visualization Principles

- What is data visualization?
 - i. Why visualization came into the picture?
 - ii. Importance of visualizing data
 - iii. Poor visualization vs Perfect visualization
 - iv. Principal of visualization

- v. Goal of Data visualization

Basic Data Visualization/Graph

- Pivot table and Heat Map
- Highlight Table
- Bar Chart
- Line Chart
- Area Chart
- Pie Chart
- Scatter Plot
- Word Cloud
- Tree Map
- Blended Axis
- Dual Axis

Advance Data Visualization/Graph

- Bar Chart
 - i. Stacked Bar Chart
 - ii. Bar in Bar Chart
 - iii. Combo Chart
- Line Chart
 - i. Single Axis
 - ii. Dual Axis
 - iii. Blended Axis
- Dual Axis Chart
 - i. Line
 - ii. Bar
 - iii. Lollipop Chart
 - iv. Donut
 - v. Bullet Graph
 - vi. Histogram Chart
 - vii. Animated Graph
- Other Advanced Chart

Building View Advance Map Option

- Explain latitude and longitude
- Default location/Edit locations
- Symbol map & Filled Map
- Map Layer

- Image in map
- Map option

Data Preparation

- Connecting to different Data Source
 - i. Excel
 - ii. CSV
 - iii. SQL Server
- Live vs Extract Connection
 - i. Creating Extract
 - ii. Refreshing Extract
 - iii. Increment Extract
 - iv. Refreshing Live
 - v. Data Source Editor
- Pivoting and splitting
- Data Interpreter: Clean Dirty Data

Saving and Sharing Tableau Workbook

- TWB vs TWBX
- How to create a packaged workbook
- Difference between .tde and .hyper file

Advanced Data Preparation

- Joins
 - i. Inner
 - ii. Left
 - iii. Right
 - iv. Outer
- Complex Join
- Union
- Data Blending and when required
- Cross DB Join

Basic Filter/Managing your Data

- Filter
 - i. Types of filter
 - ii. Quick filter
 - iii. Global filter

- iv. Normal filter
- v. Relevant filter
- vi. Dimension filter
- vii. Measure filter
- viii. Condition based filter
- ix. Advanced filter using wild card
- x. Right click filtering
- Top & Bottom N Filter
- Filtering Order of Operation

Order of Operation (Filter execution steps)

- Extract Filter
- Data Source Filter
- Context Filter

Building Interactive Dashboard/Advanced Filtering and Action

- Action Filter
 - i. Filter
 - ii. Highlight
 - iii. Go to URL
 - iv. Go to Sheet
 - v. Set Action
 - vi. Parameter Action
- Action Jumps
- Viz in Tool Tip

Basic Calculation

- Sorting
- Calculation – String, Basic, Date and Logic
- Continuous and Discrete data
- Working with Dates
- Creating calculated Fields
 - i. Logical Function
 - ii. Case if Function
 - iii. ZN Function
 - iv. Else if Function
 - v. Ad-hoc Function
- Manipulating Text – left and right function

Advance Calculation

- Table Calculation
 - i. Running total
 - ii. Percent
 - iii. Percent total
 - iv. Year over Year Growth
- LOD
 - i. Include
 - ii. Exclude
 - iii. Fixed

Grouping Data/Dynamic Representation

- Groups
- Sets
 - i. In/Out Sets
 - ii. Combined Sets
- Top and Bottom in Single view Parameters
- Dynamic Measure
- Dynamic Dimension
- Hierarchies
- Bins
- Combined Field

Analytical Topic/Capability

- Trend Line
- Forecasting
- Cluster
- Reference Line
- Box Plot(Understanding Outliers in Data)
- Distribution Band
- Reference Band

Formatting

- Size
- Updating Axis
- Colors
- Borders
- Transparency

- Chart Line
- Reference Line
- Mark Label
- Annotation
- Responsive Tool Tip

Dashboard Design

- Canvas Selection
- Tiled Object
- Floating Object
- Pixel Perfect Alignment
- Summary Box
- Chart Titles and Captions
- Adding Image and Text
- Adding Shading
- Adding Separator Lines
- Dynamic Chart Title
- Information Icons
- Creating a Story

Sharing Your Dashboard

- Publishing to PDF
- Exporting to Pivot Table and Images
- Exporting Packaged workbooks
- Tableau Reader
- Tableau Online
- Tableau Server
- Tableau Public
- Version Control
- Publishing to Tableau Server

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