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Tableau Course Content

➤ **Tableau Introduction**

- Different BI tools in the market.
- Why Tableau?
- What is Visualization?
- What is Data warehouse?
- Components of Data warehouse
- Pre-requisites to learn Tableau

Components of Tableau

➤ **Tableau Desktop**

- Installation, Licensing
- Tableau Environment
- Connecting to various data sources
- Live Vs Extract connections
- Shelves and Marks card
- Dimensions and Measures
- Discrete Vs Continuous
- Building basic visualizations
- Axis – Individual, Dual, Blended axis

➤ **Data Interpreter**

➤ **Joining vs Blending**

- What is a Join?
- Types of Joins
- What is Data Blending?
- When to use Data Blending
- Differences between Joining vs Data Blending

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➤ Tableau Generated Fields

- What are Tableau default generated fields?
- Using Measure names and measure values
- Using Number of records
- Using Latitude and Longitude fields

➤ Mapping

- Geographical Analysis
- Spatial Files
- Custom Geocoding
- Background Maps
- Map Services
- WMS Services

➤ Organizing the data

- What is a Filter?
- Types of Filters
- Filters to a view
- Filtering on Dimensions
- Filtering on Measures
- Filtering on Dates
- Difference between normal filter and quick filter
- Difference between context filter and cascading filter
- Types of filter sharing

- What is a Parameter?
- Creating, usage of Parameters
- Limitations of Parameters

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➤ Working with

sets, groups and Bins

- What is a set?
- What is a combined set?
- What is a group?
- What are Aliases?
- Creating groups and defining Aliases
- What is a Bin?
- Working with Fixed sized bins, variable sized bins

➤ Working with Calculations

- Types of Calculations
- Syntaxes
- Date Calculations
- Logical Calculations
- String Calculations
- Number Calculations
- PTD calculations – YTD, QTD, MTD, YOY
- LOD's – Fixed, Include, Exclude

➤ Order of Execution of Filters

➤ Types of Charts

- Heat Map, Tree Map, Pie chart, Geographic map,
- Text table, Highlight table, Gantt chart, box plot chart, Bullet chart, Scatter plots, Line charts, Histogram charts
- Bar Chart, Circle chart, side by side circle chart,
- Line – Discrete, Continuous, Area - Discrete, Continuous
- Line chart with Dual axis, Combinational charts,
- Packed bubble chart
- Working with page shelf and creating motion charts

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➤ Advanced Charts

- Bump charts, Control charts, Funnel charts
- Pareto charts, Waterfall charts, Bar in Bar charts
- Sparkline chart, Do nut chart, Half do nut chart...etc

➤ Image Processing

➤ Statistics

- Reference Lines, Bands, Distribution
- Forecasting
- Trend Lines and Models

➤ Formatting

- Formatting the Visualization
- Working with Annotations, captions, titles

➤ Dashboards

- What is a dashboard?
- Dashboard objects
- Building different dashboards
- Dashboard Actions
- Best practices for creating dashboards

➤ Validation of Visualizations

- Using SQL, validate the visualizations
- Use Joins, queries, sub queries, etc.

➤ Tableau Server

- Types of servers

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○ Tableau server

Pre-requisites

- Tableau server Installation
- Understanding various settings of server like
- Authentication types, Cache,
 - users, SSL, Alerts, subscriptions,etc
- Tableau server Architecture
- User Creations – in server, through .csv files
- Different types of Roles for users, permissions for users.
- Creating Sites, Projects, groups
- Publishing Data sources, workbooks
- Publishing empty extracts
- Scheduling in Tableau server
- Publishing extract data sources with schedules
- Tableau server extracts as data sources
- Schedules for subscribing views
- Full refresh vs Incremental refresh
- Data security in Tableau

- TSM, Tabcmd & Tabadmin