

## **Tableau:- 20 days – 20 hrs**

### Introduction:

- Getting Started
- The Tableau Interface
- Distributing and Publishing

### Connecting to Data:

- Getting Started with Data
- Connecting to Databases and Advanced Features
- Data Prep with Text and Excel Files
- Editing Data Connections and Data Sources
- Editing Metadata and Saving Data Sources
- Using and Refreshing Extracts
- Join Types with Union
- Data Blending
- Additional Data Blending Topics
- Connecting to Salesforce
- Connecting to Google Analytics
- Connecting to Cubes

### Visual Analytics:

- Getting Started with Visual Analytics
- Drill Down and Hierarchies
- Sorting
- Grouping
- Additional Ways to Group
- Creating Sets
- Working with Sets
- Ways to Filter
- Using the Filter Shelf
- Quick Filters
- Where Tableau Filters
- Filtering for Top and Top N

- Additional Filtering Topics
- Parameters
- Formatting
  - o The Formatting Panel
  - o Trend Lines
  - o Reference Lines
  - o Forecasting
  - o Analysis with Cubes and MDX

#### Dashboards & Stories:

- Getting Started with Dashboards and Stories
- Building a Dashboard
- Dashboard Layouts and Formatting
- Dashboard Interactivity using Actions
- Dashboard Best Practices
- Story Points

#### Mapping:

- Getting Started with Mapping
- Maps in Tableau
- Editing Unrecognized Locations
- Expanding Tableau's Mapping Capabilities
- Custom Geocoding
- Polygon Maps
- Mapbox Integration
- WMS: Web Mapping Services
- Background Images

#### Calculations:

- Getting Started with Calculations
- Calculation Syntax
- Introduction to LOD Expressions
- Intro to Table Calculations
- Modifying Table Calculations

- Aggregate Calculations
- Date Calculations
- Logic Calculations
- Number Calculations
- String Calculations
- Type Calculations
- Conceptual Topics with LOD Expressions
- Aggregation and Replication with LOD Expressions
- Nested LOD Expressions
- How to Integrate R and Tableau
- Using R within Tableau

#### Tableau Server:

- Getting Started with Tableau Server and Tableau Online
- Interacting with Content on Tableau Server and Tableau Online
- Publishing to Tableau Server and Tableau Online
- Web Authoring
- Navigating the Tableau Mobile App
- Interacting with Content in the Tableau Mobile App
- Tableau on the iPhone
- Tableau Server Administrative Overview
- Installing and Configuring Tableau Server
- Understanding Schedules and Subscriptions
- Authorization and Permissions
- Data Security with User Filters
- Data Server
- Upgrading Tableau Server
- Tabadmin: Administrative Tableau Command Line Utility
- Tabcmd: Tableau Command Line Utility

#### Tableau Online:

- Getting Started with Tableau Server and Tableau Online
- Interacting with Content on Tableau Server and Tableau Online

- Publishing to Tableau Server and Tableau Online
- Web Authoring
- Navigating the Tableau Mobile App
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- Data Security with User Filters
- Data Server
- Tabcmd: Tableau Command Line Utility

#### Advance Concept:

- Cleaning Data by Bulk Re-aliasing
- Using a Parameter to Change Fields
- Bollinger Bands
- Waterfall Charts
- Bump Charts
- Benford's Law
- Funnel Charts
- Box Plots
- Pareto Charts
- Control Charts
- Treemaps, Word Clouds and Bubble Charts
- Histograms
- Understanding Pill Types
- Aggregation, Granularity, and Ratio Calculations
- Fixing "Incorrect" Sorts with INDEX()

#### APIs:

- Extract API Introduction
- Extract API Connecting to Data
- REST API

- JavaScript API Intro and Embed
- Javascript API Switching Views
- Javascript API Filtering and Selecting
- Javascript API Asynchronous Programming
- Javascript API Event Listeners
- Javascript API Advanced Filtering
- Javascript API Utility Functions