



Xerxez Solutions
Workshop/Training Road Map
On
Business Intelligence Using Tableau
(Data Mining and Data Visualization)
(Hands – On Session)

Tableau is an emerging and extremely popular data visualization tool that is highly in-demand in the BI industry. This tool can help organizations transform their raw datasets into a format that is comprehensive and understandable without the need of having any programming or technical knowledge. In this training, you'll learn how to get the most out of Tableau Desktop and Tableau Prep by diving into calculations and applying them to real world scenarios.

You'll get a better understanding of how to artfully build and organize your visualizations. You'll get hands-on experience analyzing geographic, time-based, and survey data. By the end of this course you'll have a better grasp of advanced building techniques and calculations for creating innovative analyses and dashboards.

Prerequisite:

- Basic Knowledge of SQL Database and Other Database Connectivity
- the basic concepts of DW such as what are dimensions and facts would be enough to help you get a kickstart to tableau reporting.
- Although not compulsory but if you have some knowledge of data visualization then this would definitely help you get a better knowledge on which chart type should be used in what case.
- College ID and Official Email from the college (Optional)

Out Come:

After attending this training, the trainees will be gaining the below skills on Full Cloud Model Design, Development & Storage and Basic of Machine learning.

- Describe what data works best with Tableau Desktop and how to shape and clean it appropriately to get
- maximum flexibility from Tableau Desktop.

- Describe where and how Tableau Prep is used within the analytic cycle, and when to prep data in Tableau
- Prep vs. Tableau Desktop.
- Define and describe the purpose of the terminology used in Tableau Prep.
- Use Tableau Prep's data sampling functionality.
- Create data prep flows that address common scenarios encountered in data preparation, as applied to common data use cases.
- View data prepared in Tableau Prep using Tableau Desktop (if you have access to Tableau Desktop).
- Describe how to explore and validate data in Tableau Prep.
- Apply advanced calculations to gain additional insight into your data.
- Incorporate advanced chart types into your analysis.
- Apply advanced dashboarding techniques.
- Use calculations, parameters, and table calculations in tandem.
- Use Tableau techniques to address common business use cases.
- Format your visualizations and dashboards for maximum impact.
- Explore real world business scenario examples.

Local setup (Physical Mode)	Remote Lab Setup (Optional)
Laptop/Desktop with high-speed internet connection, Windows 10 and above	OS: Windows 10 and Above Internet Connection
Memory: 4 GB RAM	Memory: 4 GB RAM
CPU: 1 CPU Cores	CPU: 8 CPU Cores
Storage: 20 GB	Storage: 500 GB SSD

Day – 1

Category	Topic	Sub-Topics
Introduction to Tableau Prep	Introduction to Tableau Prep and Data	Introduction to Tableau Prep Connecting to Data Examining Data in the Profile Pane Cleaning Your Data. (The Basic) Validating Your Data Generating Output
	Data Cleansing	Cleaning Your Data – Deeper Dive Combining Data with Unions in Tableau Prep

		Using Wild Card Union in Tableau Prep
	Join Operations	Combining Data with Joins in Tableau Shaping Data with Pivots Shaping Data Using Aggregates Sampling Your Data Designing Data Flow
Tableau Desktop Overview	Introduction to Tableau Desktop and Installation	Connecting to Data, Customizing Data Source, Filtering, Sorting Data Creating Groups and Hierarchy in Data Discrete, Continuous, Custom Dates Mapping Data Geographically
	Cross Tab and Calculation	Highlight Tables and Heat Map Customize Your Data String, Date and Type Conversion Function and aggregation Quick Table Calculation for Analyze Data Showing Breakdown of the whole Highlight Data with Reference Lines Add Actions for Interactivity Sharing Your Work

Day – 2

Category	Topic	Sub-Topics
Tableau Desktop Data Visualization	Data Extract and Joining	Data Extraction and Joining Table Multiple Data Source Blending Data with Common Field Using Split and Custom Split Advanced Calculations: Aggregating Dimensions, Controlling Table Calculation
	LOD – Level of Details	Controlling Table Calculation LOD Expression and Filtering Parameter to Control Data in the View Swap Measures Set to Highlight Data Advance Mapping – Modifying Locations
	Geo - Coding	Customizing Tableau’s Geocoding Using Background Image, Viewing Distributions Comparing Measures, Against a Goal Showing Statistics. Forecasting: Use the Analytics Pane and Trend Lines Advanced Dashboards: Using Design Techniques and Filter Actions

	Telling Stories with Data	Designing Dashboard Telling Stories Sparkline's, Slope Charts, Control Charts Dense Data with Hex bins, Context Filter
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CONTACT US



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