

TABLEAU

“Change is the end result of all true learning.”

ZebLearn is an ISO 9001-2015 Certified Company that is co-founded by highly experienced industry professionals and alumni of top universities. It is headquartered at Noida & It is one of the fastest-growing solution providers in the field of Education, IT, Consulting and Corporate Trainings.

Tableau Syllabus

Introduction to Data Visualization and Power of Tableau

- ❖ What is data visualization?
- ❖ Comparison and benefits against reading raw numbers
- ❖ Real use cases from various business domains
- ❖ Some quick and powerful examples using Tableau without going into the technical details of Tableau
- ❖ Installing Tableau
- ❖ Tableau interface
- ❖ Connecting to Data Source
- ❖ Tableau data types
- ❖ Data preparation

Architecture of Tableau

- ❖ Installation of Tableau Desktop
- ❖ Architecture of Tableau
- ❖ Interface of Tableau (Layout, Toolbars, Data Pane, Analytics Pane, etc.)
- ❖ How to start with Tableau
- ❖ The ways to share and export the work done in Tableau

Hands-on Exercise:

- ❖ Play with Tableau desktop
- ❖ Learn about the interface
- ❖ Share and export existing works

Working with Metadata and Data Blending

- ❖ Connection to Excel
- ❖ Cubes and PDFs
- ❖ Management of metadata and extracts
- ❖ Data preparation
- ❖ Joins (Left, Right, Inner, and Outer) and Union



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- ❖ Dealing with NULL values, cross-database joining, data extraction, data blending, refresh extraction, incremental extraction, how to build extract, etc.

Hands-on Exercise:

- ❖ Connect to Excel sheet to import data
- ❖ Use metadata and extracts
- ❖ Manage NULL values
- ❖ Clean up data before using
- ❖ Perform the join techniques
- ❖ Execute data blending from multiple sources

Creation of Sets

- ❖ Mark, highlight, sort, group, and use sets (creating and editing sets, IN/OUT, sets in hierarchies)
- ❖ Constant sets
- ❖ Computed sets, bins, etc.

Hands-on Exercise:

- ❖ Use marks to create and edit sets
- ❖ Highlight the desired items
- ❖ Make groups
- ❖ Apply sorting on results
- ❖ Make hierarchies among the created sets



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Working with Filters

- ❖ Filters (addition and removal)
- ❖ Filtering continuous dates, dimensions, and measures
- ❖ Interactive filters, marks card, and hierarchies
- ❖ How to create folders in Tableau
- ❖ Sorting in Tableau
- ❖ Types of sorting
- ❖ Filtering in Tableau
- ❖ Types of filters
- ❖ Filtering the order of operations

Hands-on Exercise:

- ❖ Use the data set by date/dimensions/measures to add a filter
- ❖ Use interactive filter to view the data
- ❖ Customize/remove filters to view the result

Organizing Data and Visual Analytics

- ❖ Using Formatting Pane to work with menu, fonts, alignments, settings, and copy-paste
- ❖ Formatting data using labels and tooltips
- ❖ Edit axes and annotations
- ❖ K-means cluster analysis
- ❖ Trend and reference lines
- ❖ Visual analytics in Tableau
- ❖ Forecasting, confidence interval, reference lines, and bands

Hands-on Exercise:

- ❖ Apply labels and tooltips to graphs, annotations, edit axes' attributes
- ❖ Set the reference line
- ❖ Perform k-means cluster analysis on the given dataset



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Working with Mapping

- ❖ Working on coordinate points
- ❖ Plotting longitude and latitude
- ❖ Editing unrecognized locations
- ❖ Customizing geocoding, polygon maps, WMS: web mapping services
- ❖ Working on the background image, including add image
- ❖ Plotting points on images and generating coordinates from them
- ❖ Map visualization, custom territories, map box, WMS map
- ❖ How to create map projects in Tableau
- ❖ Creating dual axes maps, and editing locations

Hands-on Exercise:

- ❖ Plot longitude and latitude on a geo map
- ❖ Edit locations on the geo map
- ❖ Custom geocoding
- ❖ Use images of the map and plot points
- ❖ Find coordinates
- ❖ Create a polygon map
- ❖ Use WMS

Working with Calculations and Expressions

- ❖ Calculation syntax and functions in Tableau
- ❖ Various types of calculations, including Table, String, Date, Aggregate, Logic, and Number
- ❖ LOD expressions, including concept and syntax
- ❖ Aggregation and replication with LOD expressions
- ❖ Nested LOD expressions
- ❖ Levels of details: fixed level, lower level, and higher level
- ❖ Quick table calculations



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- ❖ The creation of calculated fields
- ❖ Predefined calculations
- ❖ How to validate

Working with Parameters

- ❖ Creating parameters
- ❖ Parameters in calculations
- ❖ Using parameters with filters
- ❖ Column selection parameters
- ❖ Chart selection parameters
- ❖ How to use parameters in the filter session
- ❖ How to use parameters in calculated fields
- ❖ How to use parameters in the reference line

Hands-on Exercise:

- ❖ Creating new parameters to apply on a filter
- ❖ Passing parameters to filters to select columns
- ❖ Passing parameters to filters to select charts

Charts and Graphs

- ❖ Dual axes graphs
- ❖ Histograms
- ❖ Single and dual axes
- ❖ Box plot
- ❖ Charts: motion, Pareto, funnel, pie, bar, line, bubble, bullet, scatter, and waterfall charts
- ❖ Maps: tree and heat maps
- ❖ Market basket analysis (MBA)
- ❖ Using Show me
- ❖ Text table and highlighted table



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Hands-on Exercise:

- ❖ Plot a histogram, tree map, heat map, funnel chart, and more using the given dataset
- ❖ Perform market basket analysis (MBA) on the same dataset

Dashboards and Stories

- ❖ Building and formatting a dashboard using size, objects, views, filters, and legends
- ❖ Best practices for making creative as well as interactive dashboards using the actions
- ❖ Creating stories, including the intro of story points
- ❖ Creating as well as updating the story points
- ❖ Adding catchy visuals in stories
- ❖ Adding annotations with descriptions; dashboards and stories
- ❖ What is dashboard?
- ❖ Highlight actions, URL actions, and filter actions
- ❖ Selecting and clearing values
- ❖ Best practices to create dashboards
- ❖ Dashboard examples; using Tableau workspace and Tableau interface
- ❖ Learning about Tableau joins
- ❖ Types of joins
- ❖ Tableau field types
- ❖ Saving as well as publishing data source
- ❖ Live vs extract connection
- ❖ Various file types

Hands-on Exercise:

- ❖ Create a Tableau dashboard view, include legends, objects, and filters
- ❖ Make the dashboard interactive
- ❖ Use visual effects, annotations, and descriptions to create and edit a story



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Thanks you

Now or Never



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