

Tableau Course Contents

Pre requisites:

Basic conceptual knowledge of RDBMS & SQL.
Basic Programming knowledge

Course Contents:

1.Introduction and Overview

Why Tableau? Why Visualization?

Level Setting - Terminology

Getting Started - creating some powerful visualizations quickly

The Tableau Product Line

VizSQL concept of Tableau

2.Tableau Environment

File types in Tableau

Tableau Workspace

Workbooks & Worksheets

Creating Data Views

3.Data Sources

Writing Custom Queries

Editing of connections

Joining Tables - Exploring different types of joins supported in Tableau

4. Creating Hierarchies

- Date Hierarchies
- Dimension Hierarchy
- Dynamic Hierarchy
- Hierarchy drill options

5. Creating Calculated Fields

- Writing Expressions
- Using built-in Functions

- i. Case

- ii. Char

- iii. Contains

- iv. Conditional Functions such as IIF, CountIF, etc.

- Special Tableau Functions such as Rank, Dense_Rank, Last, First, Running_Sum, etc.

6. Creating Parameters

- Simple parameters
- Cascaded Parameters
- Using Parameters in Calculations
- Parameter Controls

7. Actions

- Filter Actions

Highlight Action
URL Actions
Running Actions

8.Pivoting with Data Source

Exploring Column & Row properties of Pivot

9.Sorting Data

Single Column sorting
Multi Column Sorting
Field or member sorting
Computed Sorting

10.Filtering Data

Retrieving rows on some business condition.
Exploring all Filter Operators
Filter a Single Worksheet.
Filter Selected Work Sheets
Filtering Large Dimensions
Data Source Filter
Context Filter
Calculation Filters

11.Creating totals & Sub totals

Single Level sub totals
Multi-Level Sub totals
Different types of aggregation supported in sub totals.

12. Custom Aggregations

- Customizing Grand Totals
- Level of Detail Expression

13. Creating Sets

- Constant Sets
- Computed Sets
- TopN Sets

14. Creating Groups

- Adhoc Groups
- Creating Groups using Calculated Fields
- Editing Groups
- Include an Other Group
- Find members of Group

15. Creating Bins

- Creating Variable Sized Bins
- Creating Discrete Bins
- Create a Histogram

16. Data Blending

- Difference between Joining and Blending
- Adding a Secondary Connection
- Working with Multiple Connections
- Defining Relationships
- Data Blending with Summarized Data

17. Creating charts

- Pie chart

- Column chart
- Bar chart
- Area chart
- Bullet Chart
- Adding Trend Lines
- Building a Heat Map
- Heat Map - Size Encoded
- Heat Map - Shape & Size Encoded

18.Formatting

- Worksheet level formatting
- Formatting specific parts of View
- Copying & Pasting Formatting
- Format Color
- Clearing Formatting
- Workbook Themes
- Resizing the table
- Miscellaneous Table Options

19.Maps

- Explore data in Maps
- Turn off Pan & Zoom
- Measure Distance in Maps with the Radial Tool
- Filled Maps
- Assigning Geographic Role
- Custom Geo coding
- Background Maps

20.Creating Dashboards

- Organizing Dashboards
- Tiled & Floating Layouts
- Layout Containers
- Showing & Hiding parts of Workbook
- Rearranging Dashboard Views & Objects
- Setting the Dashboard Size

21.Publishing & Sharing

Publishing to Tableau Server

Saving your work

Reverting Workbooks

Exporting your work

Exporting the Data Source

Copying Information between Workbooks