

# Tableau



**TABLEAU**



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## Introduction to Tableau

Overview of Tableau

Data visualization and analytics

Elements of the Tableau dashboard

Understanding the significance of Tableau Desktop and Tableau Server

Extensively work with data visualization using line, bar, area, stacked bar, and multi line charts

Connecting with Excel data

## Deep dive into Tableau Graphs

Various data representation techniques

Like Tables

Graphs and Maps understanding the basics of Tree Map

Histogram

Filled Map

Symbol Map

Pie Chart

Trend Lines

Normal Tables and Multi measure Tables

## Tableau Table Joins

Understanding the conditions and methodology for joining Tables

Knowledge of Multi Table Joins

## Working with Metadata

Working with Table

Creation of Calculated Fields

Duplicating and renaming columns

Conversion of data types

Default aggregation



## Hierarchy & Groups

Tableau Hierarchy creation  
Static Group creation  
Deploying functions for Group creation

## Tableau Sorting

The various options of Sorting in Tableau  
Sorting of Multi-dimensional graph  
Deploying combined fields and setting sorting priorities

## Dual Axis Graphs

Working with Dual Line Charts  
Multiline Chart  
Donut Chart  
Pie Chart  
Working with Measure Name and Measure Values  
Learning about the different type of Single Axis Histogram,  
Dual Axis Histogram

## Histogram

Learning about the different type of Single Axis Histogram  
Dual Axis Histogram

## Pareto Chart

Understanding how to design and work with Pareto Chart

## Motion Chart

Deploying Motion Chart for data that changes over time using x and y axes

## Box Plot

Representation of numerical data through quartiles using Box Plot



## Funnel Chart

Working with Funnel Chart for data that progressively reduces with each stage.

## Waterfall Chart

Deploying Waterfall Chart for understanding the cumulative effect of sequential values

## Sets

Understanding the concept of Set which is an entity whose composition is based on a computed condition

## String Calculated Fields

Learning how to perform various operations on Strings like concatenation Manipulation and analyzing with String Calculated Fields

## Date Calculated Fields

Working with Date Calculated Fields for performing operations like parsing Modifying and analyzing

## Tableau Parameters

Learning to use the dynamic values or parameters including What if Analysis Column Selection Parameters, Chart Selection Parameters

## Tableau Actions

Tableau lets you add interactivity and context to your data using Filter Actions, URL Actions.

## Dashboard Creation

Working with the Tableau Dashboard and understanding the various concepts like Formatting, Containers, Navigations and Actions.



## Tableau Architecture

Understanding the basic Architecture of Tableau  
Learning about Tableau Desktop features, Tableau Server,  
working of Tableau and the various Tableau Products  
Tableau Products  
Tableau public Features  
Tableau Desktop personal features  
Tableau Desktop professional feature  
Tableau Server Feature  
Tableau File System  
Tableau Working  
Tableau Server Architecture

## Connection Type

Tableau Connections –Live Connection and Data Extract Connection,  
Comparing the two Live And Extract connection

## Sharing Dashboard

Learning to work on Tableau by sharing the dashboard with offline users

## Data Blending

Methods to work with data from disparate sources,  
defining the relationship between the data and combining it in  
the optimal way.

## Dashboard Filter

Working with various Tableau Filter options,  
understanding the Filter Dimensions and ways to make  
the Filter Global.

## Filter Deployment

Taking the various data sources and implementing  
to blend the graphs, using Global Filter for  
blending graphs.



## Tableau LOD Expression

Tableau Level of Detail Expressions for combining aggregate and non-aggregate data, converting aggregate to non-aggregate data in Tableau 9.X

## MapBox Integration

Integrating MapBox on Tableau for deploying Maps into Tableau Visualization

## Table Calculation

Understanding Tableau Table Calculation, familiarizing with Graph and View, learning about Context filter

## Aggregating Data

Understanding the concept of aggregating data in Tableau, defining Table Calculation, , Mark Labels, FORMAT function, working with String, Date and Logical Function, data disaggregating, forecasting.

Defining Table Calculation

Working with Drop Lines

Mark Labels

FORMAT function

Working with String

Date and Logical Function

Data disaggregating

Forecasting

## LOD Expression Function

Deploying the Exclude function in LOD

## Integration of Tableau and R

Introduction to R Statistical computing

The various applications and use cases of R

Deploying R on the Tableau platform

Learning the R functions in Tableau

The concept of Outliers in Tableau



## **K-means in Tableau**

Learning how to deploy K-means clustering in order to group and parse data in Tableau.

## **Tableau StoryTelling**

The art of telling stories with Tableau, the importance of story point and determining when to deploy Tableau Storytelling

## **Storytelling on Graph**

Converting the data available on a Graph into a Visual Storytelling endeavour

## **Clustering and Advanced Bar charts in Tableau 10**

Create clustering

Understanding how it works for scatter plots, text tables and maps, creation of custom territories, mastering the art of advanced bar charts in Tableau 10

## **Multiple data source filters & advanced maps**

Understanding the various Tableau 10 features like Highlighter, deploying multiple data sources for creation of filter and advanced mapping functionalities.

## **Beautify by design in Tableau 10**

Introduction to the various new features of Tableau 10, working with Device Designer, New Device Interface, Color palette and more

## **Data breakthrough in Tableau 10**

Understanding new data breakthrough in Tableau 10, new features of data sources, integrating multiple data sources for deriving insights.

## **Tableau Project**

