

## Syllabus & Course

<b>Course Name</b>	: Tableau
<b>Duration</b>	: Weekend (8 weekends) / Weekday (5 weeks)
<b>Delivery Mode</b>	: Classroom/Online
<b>Key Features</b>	: 500+ Quizzes, Lab Exercises, Projects, Online Account on SDL Cloud
<b>Training Kit</b>	: All course related software, Notes, Practice Question & Others

## Tableau

### Introduction to Tableau

- What is Tableau
- Architecture of Tableau
- Features of Tableau
- Installation of Tableau Desktop/Public
- Interface of Tableau (Layout, Toolbars, Data pane, Analytics pane etc)
- How to start with Tableau
- Top Chart in Tableau
- Introduction to the various file type
- Quick Introduction to the user interface in tableau
- How to create data visualization using Tableau feature “show me”
- Reorder and Remove Visualization Fields
- How to create calculated field
- How to perform operation using cross tab
- Working with workbook data and Worksheet

### Basic Data Visualization/Graph

- Pivot table and Heat Map
- Highlight Table
- Bar Chart
- Line Chart
- Area Chart

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- Pie Chart
- Scatter Plot
- Word Cloud
- Tree Map
- Blended Axis
- Dual Axis

## Advance Data Visualization/Graph

- Bar Chart
  - i. Stacked Bar Chart
  - ii. Bar in Bar Chart
  - iii. Combo Chart
- Line Chart
  - i. Single Axis
  - ii. Dual Axis
  - iii. Blended Axis
- Dual Axis Chart
  - i. Line
  - ii. Bar
  - iii. Lollipop Chart
  - iv. Donut
  - v. Bullet Graph
  - vi. Histogram Chart
  - vii. Animated Graph
- Other Advanced Chart

## Building View Advance Map Option

- Explain latitude and longitude
- Default location/Edit locations
- Symbol map & Filled Map
- Map Layer
- Image in map
- Map option

## Data Preparation

- Connecting to different Data Source
  - i. Excel
  - ii. CSV
  - iii. SQL Server

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- Live vs Extract Connection
  - i. Creating Extract
  - ii. Refreshing Extract
  - iii. Increment Extract
  - iv. Refreshing Live
  - v. Data Source Editor
- Pivoting and splitting
- Data Interpreter: Clean Dirty Data
- TWB vs TWBX
- How to create a packaged workbook
- Difference between .tde and .hyper file

### Advanced Data Preparation

- Joins
  - i. Inner
  - ii. Left
  - iii. Right
  - iv. Outer
- Complex Join
- Referential Integrity
- Union
- Data Blending and when required
- Cross DB Join

### Data Visualization Principles

- Why visualization came into the picture?
- Importance of visualizing data
- Poor visualization vs Perfect visualization
- Principal of visualization
- Goal of Data visualization

### Basic Filter/Managing your Data

- Filter
  - i. Types of filter
  - ii. Quick filter
  - iii. Global filter
  - iv. Normal filter

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- v. Relevant filter
- vi. Dimension filter
- vii. Measure filter
- viii. Condition based filter
- ix. Advanced filter using wild card
- x. Right click filtering
- Top & Bottom N Filter
- Filtering Order of Operation
  - i. Extract Filter
  - ii. Data Source Filter
  - iii. Context Filter

### Building Interactive Dashboard/Advanced Filtering and Action

- Action Filter
  - i. Filter
  - ii. Highlight
  - iii. Go to URL
  - iv. Go to Sheet
  - v. Set Action
  - vi. Parameter Action
- Action Jumps
- Viz in Tool Tip

### Basic Calculation

- Sorting
- Calculation – String, Basic, Date and Logic
- Continuous and Discrete data
- Working with Dates
- Creating calculated Fields
  - i. Logical Function
  - ii. Case if Function
  - iii. ZN Function
  - iv. Else if Function
  - v. Ad-hoc Function
- Manipulating Text – left and right function

### Advance Calculation

- Table Calculation
  - i. Running total

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- ii. Percent
- iii. Percent total
- iv. Year over Year Growth
- LOD
  - i. Include
  - ii. Exclude
  - iii. Fixed

## Grouping Data/Dynamic Representation

- Groups
- Sets
  - i. In/Out Sets
  - ii. Combined Sets
- Top and Bottom in Single view Parameters
- Dynamic Measure
- Dynamic Dimension
- Hierarchies
- Bins
- Combined Field

## Analytical Topic/Capability

- Trend Line
- Forecasting
- Cluster
- Reference Line
- Box Plot(Understanding Outliers in Data)
- Distribution Band
- Reference Band

## Formatting

- Size
- Updating Axis
- Colors
- Borders
- Transparency
- Chart Line
- Reference Line
- Mark Label

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- Annotation
- Responsive Tool Tip

## Dashboard Design

- Canvas Selection
- Tiled Object
- Floating Object
- Pixel Perfect Alignment
- Summary Box
- Chart Titles and Captions
- Adding Image and Text
- Adding Shading
- Adding Separator Lines
- Dynamic Chart Title
- Information Icons
- Creating a Story

## Sharing Your Dashboard

- Publishing to PDF
- Exporting to Pivot Table and Images
- Exporting Packaged workbooks
- Tableau Reader
- Tableau Online
- Tableau Server
- Tableau Public
- Version Control
- Publishing to Tableau Server

## Projects

- Financial Analysis Dashboard
- HR Analysis Dashboard
- Market Analysis Dashboard
- Tourism Analysis Dashboard
- New Business Analysis Dashboard
- Banking Sector Analysis
- Issue & Bug reporting Analysis
- Population Trend Analysis

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