Module 1: Overview of Data warehouse (Duration - 1.5 Hours)

❖ What is Data warehouse
❖ What is Business Intelligence and role of Data visualization in BI
❖ Business Intelligence Architecture
❖ OLTP VS OLAP
❖ Business Intelligence Tools
❖ Teams involved in Real time BI Projects
❖ Dimension vs Measure
❖ Star schema and Snowflake schema

Module 2: SQL Basics (Duration - 1.5 Hours)

❖ What is Table
❖ SELECT,FROM,WHERE,GROUP BY,HAVING,IN,BETWEEN,AND,OR,NOT
❖ Different types of Joins
❖ Unions
❖ Basic SQL statements

Module 3: Introduction to Tableau (Duration – 1 Hour)

❖ What is Tableau
❖ Why Tableau
❖ Tableau Products
❖ Tableau Architecture
❖ Start Page
❖ Connections and Sheets
❖ Connect to an Excel Data set

Module 4: Connecting to a Dataset (Duration - 1 Hour)

❖ Manage Data Properties
   o Rename a data field
   o Assign an alias to a data value
   o Assign a geographic role to a data field
   o Change data type for a data field (number, date, string, Boolean, etc.)
   o Change default properties for a data field (number format, aggregation, color, date format, etc.)
❖ Explain difference between Live vs Extract
❖ Tableau File types

Module 5: Tableau Desktop Walk thru (Duration - 1 Hour)

❖ Explain role of Worksheet, Dashboard, Story
❖ Dimension and Measures Pane
❖ Column and Row Shelves

- ❖ Auto Generated Fields in Tableau
- ❖ Discrete vs Continuous Fields
- ❖ Show Me Feauture

Module 6: Understanding Tableau Charts (Duration - 1.5 Hours)

- ❖ Text Table
- ❖ Highlighter Table
- ❖ Bar chart
- ❖ Line chart
- ❖ Bubble Chart
- ❖ Stacked Chart
- ❖ Side by Side Chart
- ❖ Filled Maps
- ❖ Symbol Maps
- ❖ Bullet chart
- ❖ Tree Map
- ❖ Heat Map
- ❖ Mark Cards
- ❖ Histogram
- ❖ Butterfly Chart
- ❖ Waterfall Chart

Module 7: Learn About Filters (Duration - 1.5 Hours)

- ❖ Data source Filters
- ❖ Extract Filters
- ❖ Dimension Filters
- ❖ Measure Filters
- ❖ Context Filters
- ❖ Add Date filter to view
- ❖ Customizing Show filters

Module 8: Groups, Sets and Parameters (Duration - 1.5 Hours)

- ❖ Groups
- ❖ Sets
- ❖ Combined Sets
- ❖ Parameters
- ❖ How to Link Parameters with Calculations

Module 9: Sorting and Formatting (Duration - 1 Hour)

- ❖ Sorting

- ❖ Headers
- ❖ Palettes
- ❖ Font and Alignment
- ❖ Marks cards
- ❖ Add Totals, Sub Totals and Grand Totals to Report

Module 10: Advanced Features (Duration - 1.5 Hours)

- ❖ Reference line,
- ❖ Reference Band
- ❖ Reference Distribution
- ❖ Trend Line
- ❖ Forecasting
- ❖ Table Calculations

Module 11: Calculated fields (Duration - 2 Hours)

- ❖ Date Expressions
- ❖ String Expressions
- ❖ Numeric Expressions
- ❖ Logical Expressions

Module 12 : Level of Details (Duration - 1.5 Hours)

- ❖ FIXED
- ❖ EXCLUDE
- ❖ INCLUDE

Module 13: Combining Data (Duration - 2 Hours)

- ❖ Joining multiple tables
- ❖ Union Data
- ❖ Blend
- ❖ Relationship

Module 14: Dashboards (Duration – 1.5 Hours)

- ❖ Understanding Dashboard Layout
- ❖ Blank Container
- ❖ Add Headers and Borders
- ❖ Horizontal and Vertical Containers
- ❖ Text

- ❖ Image
- ❖ Web Page
- ❖ Navigation
- ❖ Download

Module 15: Advanced Formatting & Story (Duration – 1.5 Hours)

- ❖ Dashboards for Phone,Tablet
- ❖ Dashboard Actions
- ❖ Filters
- ❖ Story

Practice Exercises and Review