Classroom Course Description
Tableau Advanced

Audience
Become a Tableau power user. Tableau Advanced is for the professional who has solid working experience with Tableau and wants to take it to the next level. You should have a deep understanding of all the fundamental concepts of building worksheets and dashboards, but may scratch your head when working with more complex issues.

Duration
Two days of live classroom or five days of virtual classroom instruction.

Prerequisites
Tableau Fundamentals and/or equivalent.

Course Includes
This course includes a workbook containing key concepts on each topic covered and hands-on activities to reinforce the skills and knowledge attained. It also includes a flash drive containing Tableau workbooks and data sources to support the hands-on activities.

After completing this course you will be able to:

+ Build advanced chart types and visualizations:
  - Bar in bar charts
  - Box and whisker plots
  - Bullet graphs
  - Pareto charts

+ Build complex calculations to manipulate your data.

+ Use statistical techniques to analyze your data.

+ Use parameters and input controls to give users control over certain values.

+ Implement advanced geographic mapping techniques and use custom images and geocoding to build spatial visualizations of non-geographic data.

+ Combine data sources by joining multiple tables and using data blending.

+ Make your visualizations perform as well as possible by using the Data Engine, extracts, and using connection methods correctly.

+ Build better dashboards using techniques for guided analytics, interactive dashboard design, and visual best practices.

+ Implement efficiency tips and tricks.

+ Use Tableau Server in a basic way to share your visualizations.

Course Outline

Introduction
+ Review Fundamentals Concepts

Working with Single Data Sources
+ Desktop Data Architecture
+ Using Data Extracts
+ Custom SQL Data Connection

Using Multiple Data Sources
+ All About Joins
+ Using Data Blending

Using Calculations in Tableau
+ Creating and Editing Calculated Fields
+ Calculations Performed on the Database
+ Calculations and Aggregations
+ Aggregating Dimensions in Calculations
+ Record Level Calculations for Date Conversion

Advanced Table Calculations
+ Table Calculation Scope and Direction
+ Null Values in Table Calculations
+ Table Calculations for Statistical Analysis

Creating and Using Parameters
+ Using Parameters and Reference Lines
+ Using Parameters with Filters

Comparing Measures Against a Goal
+ Showing Total Progress Toward a Goal (Bar in Bar Graph)
+ Showing Staged Progress Toward a Goal (Bullet Graph)

Showing the Biggest and the Smallest Values

Tableau Geocoding
+ How Tableau Performs Automatic Geocoding of Data
+ Modifying Geocode Locations within Tableau
+ Custom Geocoding

Advanced Mapping
+ Dual Axis Maps
+ Mapping Paths
+ Using Background Images for Spatial Analysis

Showing Distributions of Data
+ Creating a Pareto Chart
+ Box and Whisker Plots
+ Reference Distributions

Statistics and Forecasting
+ Trend Lines
+ Forecasting

Overview of Additional Visualizations
+ Gantt Bar Chart (Program Management)
+ Market Basket Analysis (Cohort Analysis)
+ Sparklines
+ Waterfall Charts

Dashboards: Quick Filters, Actions, and Parameters
+ Comparing Quick Filters, Actions, and Parameters
+ Highlight Actions
+ Filter Actions
+ URL Actions

Dashboard Best Practices
+ Sizing
+ Using Instructions
+ Dashboard Formatting

Sharing Your Work
+ Sharing Packaged Workbooks
+ Export to an Image File
+ Exporting the Data Only
+ Other Sharing Options

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