ProTech Professional Technical Services, Inc.

Tableau Desktop: Part 2

Course Summary

Description

The advent of cloud computing and storage has ushered in the era of "big data." With the abundance of computational power and storage, organizations and employees with many different roles and responsibilities can benefit from analyzing data to find timely insights and gain competitive advantage.

Data-backed visualizations allow anyone to explore, analyze, and report insights and trends from data. Tableau software is designed for this purpose. Tableau was built to connect to a wide range of data sources, and allows users to quickly create visualizations of connected data to gain insights, show trends, and create reports. Beyond the fundamental capabilities of creating data driven visualizations, Tableau allows users to manipulate data with calculations to show insights, make visualizations interactive, and perform statistical analysis. This gives users the ability to create and share data driven insights with peers, executives and clients.

Objectives

In this course, you will perform advanced data visualization and data blending with Tableau. You will:

- Blend data to visualize relationships.
- Join data.
- Access data in PDFs.
- Refine visualizations with sets and parameters.
- Manipulate data with calculations.
- Visualize data with advanced calculations.
- Perform statistical analysis and forecasting.
- Enrich visualizations, dashboards, and maps.

Topics

- Blending Data to Visualize Relationships
- Joining Data
- Accessing Data in PDFs
- Refining Visualizations with Sets and Parameters
- Manipulating Data with Calculations
- Visualizing Data with Advanced Calculations
- Performing Statistical Analysis and Forecasting
- Enriching Visualizations, Dashboards, and Maps

Audience

This course is designed for professionals in a variety of job roles who are currently using Tableau to perform numerical or general data analysis, visualization, and reporting, who now need to provide data visualizations from multiple data sources, or combine data to show comparisons, manipulate data through calculations, create interactive visualizations, or create visualizations that showcase insights from statistical analysis. This course is also designed for students who plan to obtain Tableau Desktop Qualified Associate certification, which requires candidates to pass the Desktop Qualified Associate exam.

Prerequisites

To ensure your success in this course you should have experience with importing data and creating data visualizations in Tableau. You can obtain this level of skills and knowledge by taking the following Logical Operations courses: Tableau Desktop: Part 1. Optionally, having experience with other data analytics tools, such as Google Analytics or Customer Relationship Management (CRM) tools, as well as an understanding of database design concepts or a background in statistical analysis, will help you get even more out of Tableau. The following courses are helpful but not required: Google Analytics: Foundation (Second Edition), Database Design: A Modern Approach, Microsoft Office Excel 2016: Dashboards.

Duration

Two Days

Course Outline

I. *Blending Data to Visualize Relationships*
   A. Blend Data
   B. Troubleshoot and Refine Data Blends

II. *Joining Data*
   A. Create Joins
   B. Troubleshoot Joins
   C. Union Data

III. *Accessing Data in PDFs*
   A. Connect to PDFs
   B. Clean and Organize PDF Data

IV. *Refining Visualizations with Sets and Parameters*
   A. Create Sets
   B. Analyze Data with Sets
   C. Apply Parameters to Data to Refine Visualizations

V. *Manipulating Data with Calculations*
   A. Create Calculated Fields
   B. Manipulate Data with Functions
   C. Analyze Data with Table Calculations

VI. *Visualizing Data with Advanced Calculations*
   A. Create Groups and Bins with Calculations
   B. Analyze Data with LOD Expressions

VII. *Performing Statistical Analysis and Forecasting*
   A. Perform Statistical Analysis
   B. Forecast Data Trends

VIII. *Enriching Visualizations, Dashboards, and Maps*
   A. Customize Mapped Data
   B. Enhance Visualizations with Tooltips
   C. Enhance Dashboards with Actions

IX. *Appendix A:* Multidimensional Data Sources

X. *Appendix B:* Mapping Course Content to the Tableau® Desktop Qualified Associate Certification Objectives