



## TABLEAU

### Introduction to Data Visualisation

- What is data visualization?
- Why data visualizations?
- Traditional forms of visualization

### The Visualisation Design Methodology

- Exploratory Data Analysis
- Multidimensional Data
- Graphical Perception

### The Data Visualization Process

- The Ben Fry Visualizing Data Process
- Acquire
- Parse
- Filter
- Mine
- Represent
- Refine
- Interact

### Working with Single Data Sources

- Desktop Data Architecture
- Using Data Extracts

### 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

### Advanced Table Calculations

- 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)
- 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

### **Case Study**

- Examples on practical problems