

Visual Analytics: Actionable Insights to Convey Stories

Too much data to analyse and having difficulties in making a decision?
Do you know how to apply visual analytics to boost your organisation?

Introduction

This course introduces you to a powerful visual analysis. Power BI & Tableau is an easy to use tool that can be used to turn data into actionable insight so that you can convey stories to yourself and others through the use of highly interactive visualisations. Visual Analytics allows users to access reports and dashboards using familiar tools and devices. This two-day course is designed for the beginner and will help you understand and use the basic techniques for creating visualisations and combining them in interactive dashboards.

Program Objectives

This program aims to:

- create compelling visualisations and reports which provide deep insights into your data.
- Expose the concepts, methodologies and techniques of interactive visualisation to facilitate analytical reasoning
- connect to a wide variety of data sources.
- Use the Query Editor to transform and morph data into the right format for your reporting purposes.
- Share dashboards and reports, with colleagues, business partners and potential clients.

Learning Outcomes

After completing this training, the participants should be able to:

- Apply data analytics and its application to business and management decision making.
- exposure to critical thinking with data
- create visual scenarios in presenting a report or case
- discover how to go from basics to big data with data visualisation techniques

Who should attend?

Non-managerial, first-line management, middle management and anyone who need to present reports using Big Data.

Methodology

Case studies, forum discussion, role-play, presentations, gamification

Program Outline

Time	Day One
9.00am– 10.30am	<p>Introduction to Power BI & Tableau</p> <p>This section will cover the power of Business Intelligence (BI) and its components. We will look at Tableau, from computations to analytics.</p> <p>Creating Your Visual & Dashboard</p> <p>You will learn on how to create visual representations of the data (called visualisations) to the dashboard to make the data easier to interpret, perform manipulations on the data to customise which information to display, organise data into multiple layout tabs (or "pages") to provide a logical flow to your dashboard, and so on.</p>
10.30am-11.00am	<p>Break and Networking</p>
11.00am-1.00pm	<p>Connecting Data Sources</p> <p>Connecting data sources is important in producing reports. Reporting Services support data Sources. Data Connections, Data Sources, and Connection Strings (Report Builder and SSRS) add and verify a Data Connection. You will also learn how to:</p> <ul style="list-style-type: none">● Create, modify and delete shared data sources.● Create and modify embedded data sources.● Convert data sources.● Add data from external data sources.
1.00pm-2.00pm	<p>Lunch Break and Networking</p>
2.00pm-3.30pm	<p>Cleaning Up & Transforming Data</p> <p>This module covers how to perform data transformation and cleaning to achieve high-quality data. Among the subjects that will be covered here are</p>

	<ul style="list-style-type: none"> ● tools requirement in carrying out this task. ● Data transformation from one format to another ● Data translation and integration ● Data filtering
3.30pm-4.00pm	Break and Networking
4.00pm-5.00pm	Using Row-Level and Aggregate Calculations Calculations significantly extend the possibilities for analysis, design, and interactivity. In this module, you will be exposed to the way calculations can be used in many ways. You will learn how calculations can be used to fix common problems with data, extend the data by adding new dimensions and measures, and provide additional flexibility in interactivity.
Time	Day Two
9.00am– 10.30am	Formatting A Visualization to Look Great and Work Well Data needs to be presented in such a way that it makes a huge difference in the way it is received and understood. In this module, you will be exposed to the many ways of formatting data. Formatting data is more than just making a data visualisation looks good.
10.30am-11.00am	Break and Networking
11.00am-1.00pm	Making Data Work for You This module is planned to give you the exposure on how to use the data for your work. It covers how to pick the right data to tell your story.
1.00pm-2.00pm	Lunch Break and Networking
2.00pm-3.30pm	Telling A Data Story with Dashboards What is data storytelling, what makes it great? This module you will learn on how to transform your presentation into a great story through dashboard storytelling. The objective here is to engage participation in data discovery and analysis in creating numerous data visualisations.
3.30pm-4.00pm	Break and Networking
4.00pm-5.00pm	Sharing & Collaborating Your Data Story

	<p>Here you will learn about story features. This is a great way to showcase your analysis through a step by step method by engaging your audience through time.</p>
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