

CODE' 25 POWER BI WORKSHOP

- 11 JANUARY 2025
- 11.00 AM - 1.00 PM
- DEWAN KEJORA,
BLOCK N28A

EVENT
HIGHLIGHTS



Introduction

The CODE' 25 Power BI Workshop provided a comprehensive introduction to the field of data analytics and visualisation. The workshop explored the basics of using Microsoft Power BI to prepare, analyse, and present data in interactive dashboards and reports. Participants learnt how to transform unstructured data into insightful knowledge by fusing theory with hands-on experience, which allowed them to make well-informed decisions in a variety of real-world situations. This event highlighted not only technical skills but also the strategic value of visual storytelling in modern analytics.

Power BI

- A business analytics tool by Microsoft that helps visualize data, gain insights, and make informed decisions.
- Transform raw data into stunning visuals.
- Build interactive dashboards and reports.
- Analyze trends and patterns for smarter strategies.

Use For :

- Professionals in finance, marketing, education, and more.
- Organizations seeking data-driven solutions.

Building Blocks of Power BI

Semantics Models

- Consists of all connected data, transformations, relationships, and calculations.
- Connect to data -> Transform Data -> Create Relationships -> Create Semantic Model

Visualizations

- Create visualizations by adding it to the canvas for a report page
- Power BI is a low-code solution -> Can drag and drop data directly onto the canvas

Dashboards

- Made up of tiles, together tells a story
- Limited to one page, contains only the most important elements of the story

Uses of Dashboards:

- Hover over a tile on a dashboard tile to view details about the data behind the visual.
- Open a report from a dashboard

Reflection

From this workshop, our group was inspired by the importance of data visualisation and its role in decision-making. We had developed skills to clean, transform, and analyse data effectively using Microsoft Power BI. The practical exercises deepened the understanding and highlighted the real-world relevance of these skills. This workshop sparked a deeper interest in us in leveraging data analytics for impactful solutions.

Hand-On Activities

Data Preparation

- Cleaning and transforming datasets to ensure accuracy.

DAX Expressions

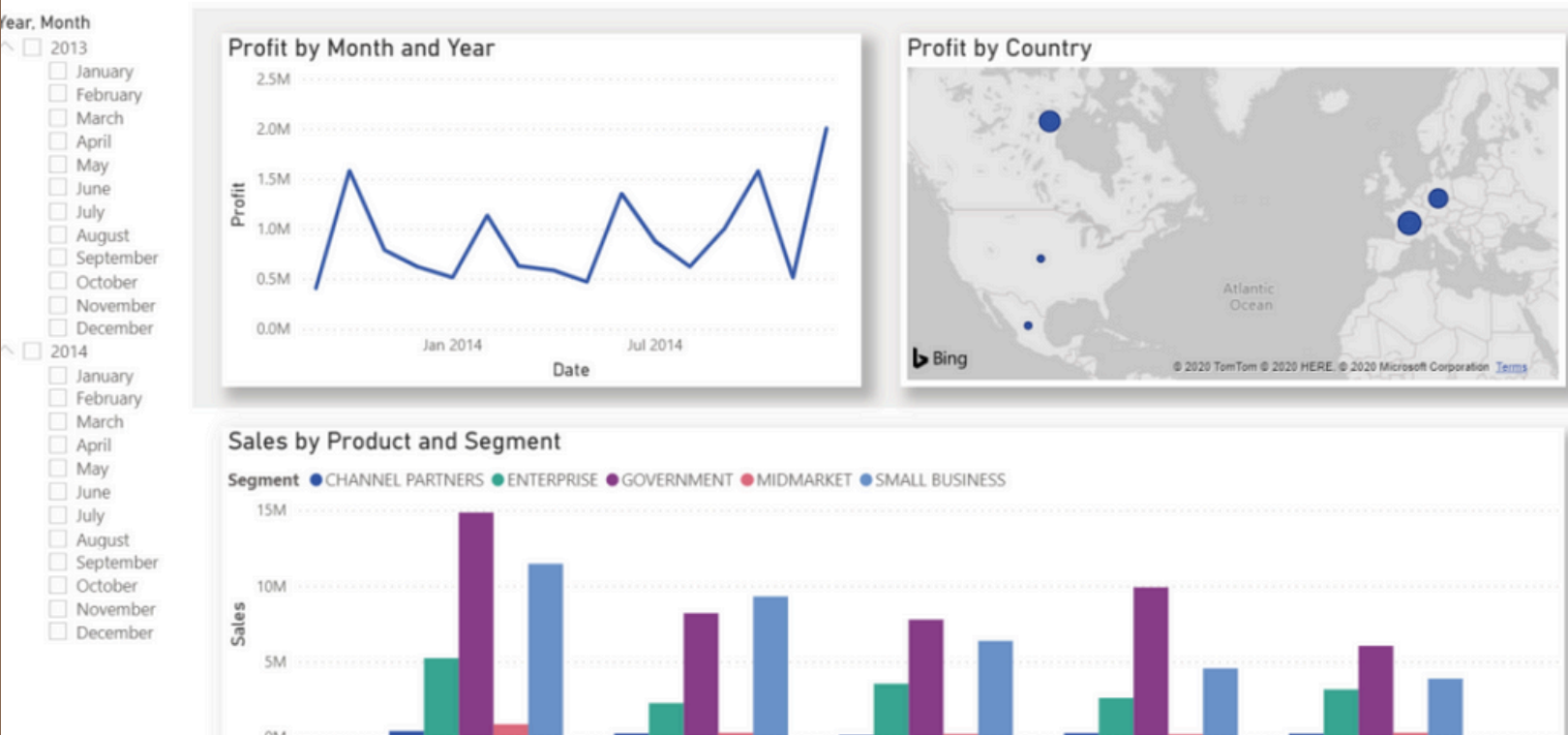
- Write basic expressions to create new measure and table to enhance data analysis

Visualisations

- Creating line charts, maps, and bar charts to visualize key metrics.
- Using slicers to interactively filter data and customize views.
- Save and publish the report to the Power BI service to share

Example of Report

Executive Summary – Finance Report



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Executive Summary

This summary is based on the knowledge gained from the Power BI Workshop. The purpose of this event was to introduce participants to realms of data visualisation and business intelligence. Participants learnt how to use Power BI to turn raw data into insights that can be put to use through a combination of theoretical concepts and practical activities. The workshop's main highlights were learning how to prepare data, create dynamic visualisations, and apply DAX expressions to produce unique insights. Participants enhanced the impact and accessibility of data-driven decision-making by departing with the confidence and understanding to apply Power BI in real-world scenarios.

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