Faysal Aziz

Analytics with Power BI

2-day intensive course

FA-0097 · 2-day

Data & Analytics

Introduction

Welcome to our advanced course on Analytics with PowerBI, designed to elevate your existing PowerBI skills to a new level. This course is meticulously crafted for individuals who are already familiar with PowerBI basics and are looking to delve deeper into analytics and dynamic, enhanced dashboards. Throughout this journey, we'll explore the multifaceted capabilities of PowerBI, focusing on harnessing its full potential to create compelling, data-driven stories.

Learning outcomes

Upon completing this course, participants will be able to:

- Understand the advanced analytical capabilities within PowerBI.
- Design and implement dynamic dashboards that adapt to underlying data changes.
- Utilize DAX (Data Analysis Expressions) for complex data manipulations and calculations.
- Implement advanced data visualization techniques to make data more accessible and understandable.
- Leverage PowerBI's AI capabilities to uncover insights and trends.
- Automate data refresh and report distribution to ensure up-to-date insights.
- Integrate PowerBI with other data sources and services for enhanced analytics.
- Apply best practices in dashboard design to enhance user interaction and decision-making.

Prerequisites

Before embarking on this course, participants should have:

- A fundamental understanding of PowerBI, including basic dashboard creation and data visualization.
- Basic knowledge of data models and relationships.

- Familiarity with DAX and Power Query.
- An understanding of data sources that can be connected to PowerBI.
- Experience in creating and sharing PowerBI reports.

Training outline

1. Advanced Analytics in PowerBI

Leveraging AI in PowerBI

1. Introduction to AI visuals
2. Automated insights
3. Using the Key Influencers visual for predictive analytics

2. Advanced Data Analysis with DAX and python

1. Time intelligence functions
2. Complex measures and calculated columns
3. Dynamic DAX formulas for responsive analytics
4. Using python for modern approach

3. Dynamic and Enhanced Dashboards

Design Principles for Dynamic Dashboards

1. User interaction and dynamic filtering
2. Visual hierarchy and layout optimization

Implementing Dynamic Features

1. Use of bookmarks and selections for interactive reports
2. Conditional formatting and dynamic visuals
3. Real-time data feeds and dashboard updates

4. Data Visualization Techniques

Advanced Visuals and Custom Visuals

1. Exploring advanced chart types
2. Importing and using custom visuals from the marketplace

Data Storytelling and Presentation

1. Crafting a narrative with your data

2. Best practices for dashboard presentations

5. Integration and Automation

Data Connectivity and Transformation

1. Integrating with external databases and cloud services
2. Advanced data transformation techniques in Power Query

Automating PowerBI Processes

1. Setting up data refresh schedules
2. Automating report distribution with Power Automate

6. Performance Optimization and Best Practices

Dashboard Optimization

1. Techniques for improving dashboard performance
2. Managing large datasets in PowerBI

Best Practices in Dashboard Design

1. Enhancing user experience
2. Security and sharing protocols

7. Hands-on Workshops and Case Studies

1. Practical exercises on advanced analytics
2. Building dynamic dashboards from scratch
3. Case studies on real-world data analysis and dashboard design

This course will guide you through a deep dive into the advanced capabilities of PowerBI, focusing on leveraging analytics and creating dynamic, compelling dashboards that make data actionable and insightful. Please note that the instructor will use an agile methodology to cover the course content. As such, the sequence of topics may not adhere to the order of listing.

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