

Training Methodology

This advanced Power BI course is focused on practical, high-level skills, enabling participants to master complex data models, advanced DAX functions, and real-time dashboard creation. The methodology includes:

- Live demonstrations: Instructor-led sessions showcasing advanced Power BI features and strategies.
- Project-based learning: Participants will work on real-world business scenarios, creating advanced reports and dashboards.
- Interactive group activities: Collaborating with peers to solve complex data problems and present solutions.
- Case studies: Application of advanced techniques to address industry-specific challenges.
- Regular feedback: Continuous evaluation and personalized feedback to enhance learning outcomes.

Course Overview

The Power BI Advanced course equips participants with the tools to tackle the most complex data analysis and reporting tasks. Participants will learn how to create optimized, scalable data models, apply advanced DAX calculations, and build real-time, interactive dashboards. This course also covers report automation, enhanced data security, and the integration of Power BI with other Microsoft tools.

What You Will Learn

Power BI Advanced

- Advanced Data Modeling: Learn how to build scalable, optimized data models for large datasets.
- Complex DAX Calculations: Master DAX for creating complex business logic and customized calculations.
- Real-Time Dashboards: Create and configure real-time dashboards using data streams and live connections.
- Data Security and Governance: Apply row-level security and manage data governance in Power BI.
- Integration and Automation: Integrate Power BI with tools like Power Automate, Power Apps, and Azure for automated workflows.

Who Should Learn

- Senior Data Analysts: Professionals responsible for complex, large-scale data reporting and analytics.
- Business Intelligence Experts: BI professionals aiming to enhance their skill set with real-time reporting and advanced data modeling techniques.
- IT Managers: Individuals managing company-wide reporting systems and data governance.
- Consultants and Analysts: Those working in data-heavy environments who need to provide custom analytics solutions to clients.
- Developers: Individuals looking to integrate Power BI with other applications and automate reporting tasks.

5 Training Modules

Power BI Advanced

Module 1: Advanced Data Modeling and Optimization

- Creating efficient, scalable data models for large datasets.
- Implementing advanced Power Query transformations for complex data manipulations.
- Optimizing models for performance, including column store indexing and query folding.

Module 2: Advanced DAX Functions and Calculations

- Mastering advanced DAX techniques: complex calculated columns, measures, and variables.
- Time intelligence functions: calculating YTD, QTD, and custom time periods.
- Creating dynamic calculated tables and multi-step transformations.

Module 3: Real-Time Dashboards and Data Streams

- Configuring Power BI dashboards with real-time data connections and live streaming.
- Using DirectQuery and streaming datasets to build real-time, interactive reports.
- Implementing Power BI APIs for real-time data updates and integration with third-party apps.

Module 4: Data Security and Governance in Power BI

- Applying row-level security (RLS) for secure data access across users.
- Managing access control and permissions for reports and datasets.
- Best practices for maintaining data governance and compliance in Power BI.

Module 5: Automation and Integration with Power BI

- Automating report generation, email notifications, and data alerts with Power Automate.
- Integrating Power BI with other Microsoft tools (Power Apps, Azure) for complete business solutions.

Power BI Advanced

- Setting up scheduled data refreshes and real-time data updates for enhanced reporting efficiency.

Conclusion

By the end of this Power BI Advanced course, participants will have mastered the most sophisticated tools and techniques in Power BI. They will be able to handle complex data models, perform advanced calculations with DAX, and build real-time, secure dashboards. This course is ideal for professionals who want to become Power BI experts and lead data-driven decision-making in their organizations.

