

2024

Data Storyteller: Visual Narratives with Power BI



OVERVIEW

This comprehensive course on Power BI equips participants with the knowledge and skills to effectively utilize Power BI for data analysis and visualization. Participants will learn to navigate the Power BI ecosystem, from data preparation and modeling to advanced visualization techniques and deployment strategies. By the end of the course, participants will be proficient in creating interactive reports and dashboards, optimizing data models using DAX, and leveraging Power BI Service and Mobile for seamless collaboration and data sharing.



Latest training session photo

OBJECTIVES

- Comprehensive understanding of Power BI Desktop and Power BI Service
- Skills to connect, transform, and model data from various sources
- Ability to create and customize interactive visualizations and reports
- Proficiency in using DAX for calculations and data modeling
- Knowledge of best practices for Power BI development and deployment
- Hands-on experience with real-world data scenarios
- Course materials including slides, datasets, and exercise files

WHO SHOULD ATTEND?

- Business Analysts
- Data Analysts
- Data Scientists
- BI Developers
- IT Professionals
- Anyone interested in learning data visualization and business intelligence using Power BI

PREREQUISITES

- Basic understanding of data analysis and reporting concepts
- Familiarity with Excel or any other data analysis tool
- Basic knowledge of relational databases and SQL (optional but beneficial)

ALL PARTICIPANTS WILL RECEIVE

- Training manuals/documentation.
- Certification upon completion of the Data Storyteller: Visual Narratives with Power BI course.
- Excellent care and attention from instructors and staff.
- Unlimited attendance to the Data Storyteller: Visual Narratives with Power BI (limited to 5 repeat attendees per training session; if you wish to attend the workshop again, please contact our Facebook Page, Line, Email, or other channels to reserve your seat).

OUTLINE

- **Course Outline**
- **Day 1: Introduction to Power BI and Data Preparation**
- **9:00 AM - 10:30 AM: Introduction to Power BI**
- Overview of Power BI: What is Power BI?
- Key Features and Benefits
- Power BI Ecosystem: Power BI Desktop, Power BI Service, Power BI Mobile

- Understanding Different Data Sources
- **10:30 AM - 10:45 AM: Break**
- **10:45 AM - 12:00 PM: Getting Started with Power BI Desktop**
- Installing and Setting Up Power BI Desktop
- Understanding the Power BI Interface
- Importing Data from Various Sources (Excel, SQL Server, Web, etc.)
- Basic Data Transformation with Power Query Editor
- **12:00 PM - 1:00 PM: Lunch Break**
- **1:00 PM - 2:30 PM: Data Cleaning and Transformation**
- Advanced Data Transformation Techniques
- Merging and Appending Queries
- Creating and Managing Data Relationships
- Introduction to DAX (Data Analysis Expressions) for Calculated Columns and Measures
- **2:30 PM - 2:45 PM: Break**
- **2:45 PM - 4:00 PM: Data Modeling**
- Understanding Data Models
- Creating Data Models in Power BI
- Using DAX for Data Modeling
- Best Practices for Data Modeling
- **4:00 PM - 4:15 PM: Break**
- **4:15 PM - 5:30 PM: Creating Visualizations**
- Introduction to Power BI Visualizations
- Creating and Customizing Basic Charts (Bar, Line, Pie, etc.)
- Using Slicers and Filters
- Designing Interactive Reports and Dashboards
- **Day 2: Advanced Power BI Techniques and Sharing Insights**
- **9:00 AM - 10:30 AM: Advanced Visualizations**
- Using Advanced Charts (TreeMap, Waterfall, Funnel, etc.)
- Custom Visuals in Power BI
- Working with Maps and Geospatial Data
- Best Practices for Data Visualization
- **10:30 AM - 10:45 AM: Break**
- **10:45 AM - 12:00 PM: Advanced DAX and Calculations**
- Advanced DAX Functions and Formulas
- Time Intelligence in Power BI
- Creating and Using Hierarchies
- Managing Role-Based Security with DAX
- **12:00 PM - 1:00 PM: Lunch Break**

- **1:00 PM - 2:30 PM: Power BI Service**
- Publishing Reports to Power BI Service
- Data Refresh and Scheduled Refresh
- Working with Power BI Workspaces
- Sharing and Collaborating on Reports
- **2:30 PM - 2:45 PM: Break**
- **2:45 PM - 4:00 PM: Power BI Mobile and Embedding**
- Overview of Power BI Mobile
- Creating Mobile-Optimized Reports
- Embedding Power BI Reports in Websites and Apps
- Power BI REST API and Power BI Embedded
- **4:00 PM - 4:15 PM: Break**
- **4:15 PM - 5:30 PM: Best Practices and Q&A**
- Best Practices for Power BI Development and Deployment
- Performance Optimization Techniques
- Common Pitfalls and Troubleshooting
- Q&A Session and Hands-On Practice
- **5:30 PM - 6:00 PM: Course Wrap-Up**
- Recap of Key Concepts
- Resources for Further Learning
- Feedback and Next Steps

CONTACT INFORMATION

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