Course Agenda

Microsoft Power BI

Lesson 01 - Introduction to Power BI

➢ Understanding the Role of Power BI in Data Analysis
➢ Exploring Power BI Components and Services
➢ Navigating the Power BI Interface

Lesson 02 - Power BI Desktop and Data Transformation

➢ Introduction to Power BI Desktop
➢ Connecting to Data Sources
➢ Data Transformation and Query Editor
➢ Data Loading and Data Model Creation

Lesson 03 - Data Analysis Expressions (DAX)

➢ Introduction to DAX Language
➢ DAX Functions and Formulas
➢ Creating Calculated Columns and Measures
➢ Aggregations and Time Intelligence

Lesson 04 - Data Visualization

➢ Principles of Data Visualization
➢ Creating Visualizations with Power BI
➢ Customizing Visual Appearance
➢ Interactivity and Drill-Through

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Lesson 05 - Connectivity Modes

➢ Import Data vs. DirectQuery vs. Live Connection
➢ Advantages and Limitations of Each Connectivity Mode
➢ Choosing the Right Connectivity Mode for Your Scenario

Lesson 06 - Power BI Report Server

➢ Understanding Power BI Report Server Architecture
➢ Installation and Configuration
➢ Deploying and Managing Reports
➢ Security and Access Control

Lesson 07 - Power BI Service

➢ Overview of Power BI Service Features
➢ Uploading and Sharing Reports and Dashboards
➢ Collaborative Workspaces and App Workspaces
➢ Power BI Gateway and Data Refresh

Lesson 08 - Using R & Python

➢ Incorporating R and Python Scripts in Power BI
➢ Enabling Advanced Analytics with External Scripts
➢ Creating Custom Visualizations with R and Python

Lesson 09 - Advanced Analytics

➢ Leveraging Advanced Analytics Capabilities in Power BI
➢ Integrating Machine Learning Models
➢ Forecasting and Trend Analysis

Lesson 10 - Mobile Apps

- ➢ Designing Reports for Mobile Consumption
- ➢ Responsive Layouts and Mobile-Friendly Visualizations
- ➢ Publishing and Accessing Reports on Mobile Devices

Lesson 11 - Power BI Reports

- ➢ Building Interactive and Insightful Reports
- ➢ Incorporating Multiple Visualizations into Reports
- ➢ Storytelling and Data Narration

Lesson 12 - Quick Insights and Q&A

- ➢ Generating Quick Insights from Data
- ➢ Using the Q&A Feature for Natural Language Queries
- ➢ Enhancing Decision-Making with Quick Insights

Lesson 13 - Industry Use Cases

- ➢ Real-World Applications of Power BI in Various Industries
- ➢ Case Studies and Success Stories

Lesson 14 - Course Review and Certification Preparation

- ➢ Recap of Key Concepts and Skills
- ➢ Practice Exercises and Quizzes

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