MS Power BI:
Data Analysis Practitioner

Days: 2

Prerequisites: To ensure your success, you should have experience managing data with a spreadsheet program such as Microsoft Excel.

Audience: This course is designed for professionals in a variety of job roles who are currently using desktop or web-based data management tools such as Microsoft Excel® or SQL Server® reporting services to perform numerical or general data analysis. They are responsible for connecting to cloud-based data sources, as well as shaping and combining data for the purpose of analysis. They are also looking for alternative ways to analyze business data, visualize insights, and share those insights with peers across the enterprise. This includes capturing and reporting on data to peers, executives, and clients.

Description: As technology progresses and becomes more interwoven with our businesses and lives, more data is collected about business and personal activities. This era of "big data" is a direct result of the popularity and growth of cloud computing, which provides an abundance of computational power and storage, allowing organizations of all sorts to capture and store data. Leveraging that data effectively can provide timely insights and competitive advantages.

Creating data-backed visualizations is key for data scientists, or any professional, to explore, analyze, and report insights and trends from data. Microsoft® Power BI® software is designed for this purpose. Power BI was built to connect to a wide range of data sources, and it enables users to quickly create visualizations of connected data to gain insights, show trends, and create reports. Power BI's data connection capabilities and visualization features go far beyond those that can be found in spreadsheets, enabling users to create compelling and interactive worksheets, dashboards, and stories that bring data to life and turn data into thoughtful action.

Course Objectives: In this course, you will analyze data with Microsoft Power BI. You will:

- Analyze data and create reports with Power BI.
- Connect to data.
- Clean, transform, and load data.
- Visualize data with Power BI.
- Enhance visuals to support data analysis.
- Customize and filter reports.
- Share reports and create dashboards in the Power BI Service.

OUTLINE:

LESSON 1: ANALYZING DATA AND REPORTING WITH POWER BI

- Topic A: Data Analysis and Visualization for Business Intelligence
- Topic B: Interact with Reports in Power BI

LESSON 2: CONNECTING TO DATA

- Topic A: Create Data Source Connections
- Topic B: Configure and Manage Relationships
- Topic C: Save Files in Power BI

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LESSON 3: CLEANING, TRANSFORMING, AND LOADING DATA

- Topic A: Load, Clean, and Shape Data with the Query Editor
- Topic B: Profile Data with the Query Editor
- Topic C: Shape Data with the Query Editor
- Topic D: Transform Data with the Query Editor

LESSON 4: VISUALIZING DATA WITH POWER BI

- Topic A: Create Visualizations with Power BI
- Topic B: Select Visualization Types with Power BI

LESSON 5: ENHANCING VISUALS FOR DATA ANALYSIS

- Topic A: Customize Visuals and Pages
- Topic B: Incorporate Tooltips in Visualizations

LESSON 6: CUSTOMIZING AND FILTERING REPORTS

- Topic A: Create Data Hierarchies
- Topic B: Filter Reports
- Topic C: Configure Slicers for Interactive Filtering

LESSON 7: SHARING REPORTS AND CREATING DASHBOARDS IN THE POWER BI SERVICE

- Topic A: Publish and Explore Reports in the Power BI Service
- Topic B: Create Dashboards
- Topic C: Add Q&A to Dashboards