

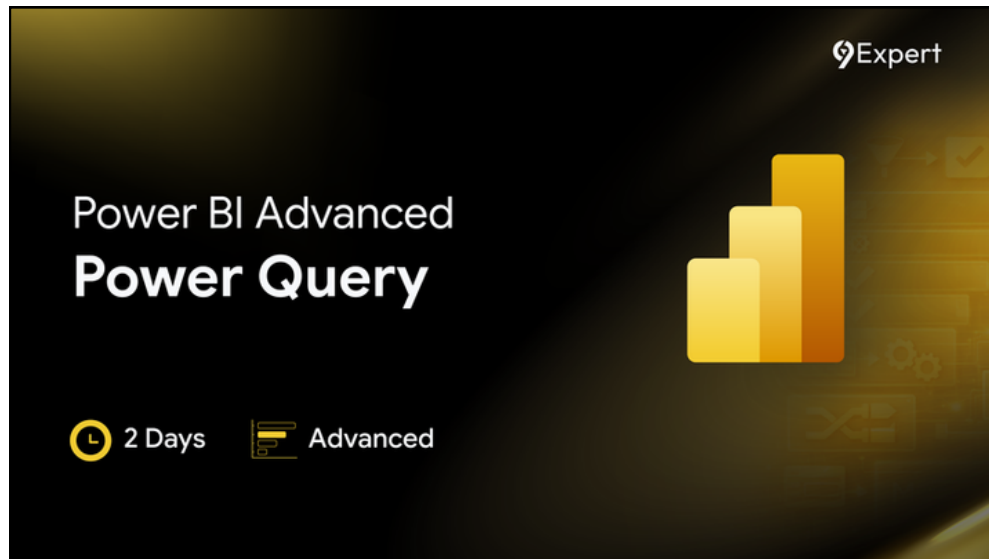


POWER BI ADVANCED POWER QUERY

Course ID : POWER-BI-PQ



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Duration: 2 Days

(12 Hours) 09:00 AM – 04:00 PM



Price: 8,900 THB

* (excluding VAT 7%)

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Power Platform, Business, Data

Power Query is a powerful component within Power BI that enables users to perform ETL (Extract, Transform, Load) operations from a wide range of data sources. It allows users to clean, transform, and reshape data to making it ready for analysis and business intelligence tasks. This course focuses on advanced data preparation techniques, dynamic data transformation using diverse commands, and customization with M Language. Through hands-on case studies, participants will learn how to automate complex and repetitive data preparation processes, ensuring their data is optimized for

further analysis in Power BI.

Objectives

1. Prepare and integrate data from multiple sources.
2. Perform data cleansing, shaping, restructuring, transformation, and extraction processes.
3. Edit and customize M Language scripts for advanced data manipulation.
4. Configure and manage the Power BI Data Gateway for secure connectivity.

Target Audience

1. Chief Data Officers (CDOs)
2. Business Analysts
3. Data Analysts
4. Data Engineers
5. Directors and Senior Management

Prerequisites

1. Experience working with Windows operating systems and internet -based applications.
2. Basic understanding of data analysis and summarization techniques.
3. Prior experience using Power BI for data import and visualization.
4. Familiarity with PivotTable in Microsoft Excel.

System Requirements

1. Windows 10 or Windows 11
2. Microsoft Power BI Desktop (available as a free download)
3. A Smart devices (iOS or Android) for installing the Power BI Mobile app

TOPICS TRAINING



DAY 1 - Morning Session

9:00 AM – 12:00 PM

1. Fundamentals of Data Preparation and Power Query

- Introduction to Power Query for data preparation in Power BI
- Overview of Power BI and business intelligence concepts
- Understanding Power Query and the Power Query Editor

- Overview of the ETL (Extract, Transform, Load) process
- Introduction to dimensional data modeling

2. Importing Data from Files and Folders

- Importing text and CSV files
- Importing Excel files
- Importing log files
- Automatically combining files from a folder
- Automatically combining worksheets from Excel files
- Case Study : Automatically combining multiple Excel worksheets



DAY 1 - Afternoon Session

1:00 PM – 4:00 PM

3. Importing Data from Databases

- Importing data from SQL Server and Azure SQL Database
- Understanding data connectivity modes in Power BI: Import, DirectQuery, Live Connection

4. Working with Parameters

- Creating and managing parameters in Power Query
- Passing parameters values from Power BI visualizations to Power Query

5. Data Transformation with Power Query

- Data shaping: removing rows, columns, and errors
- Data cleansing: removing duplicates, filtering data, cleaning/trimming text, and changing text case
- Data extraction: splitting columns, extracting values, merging data, and creating column from examples

- Data transformation: transposing, pivoting, and unpivoting columns
- Data summarization: grouping data and counting row
- Column calculations: creating custom columns, using functions, adding index columns, defining conditional columns, and duplicate columns
- Table joins: left outer, right outer, full outer, inner, left anti, right anti, and append operations
- Working with multiple tables: appending and merging queries
- Workshop: Case Study - Analyzing complex sales data in the modern trade business

DAY 2 - Morning Session 9:00 AM – 12:00 PM

6. M Language

- Understanding variables, data types, operations, and built-in functions
- Working with tables, records, and fields
- Creating reusable functions functions in M

7. Understanding Functions

- Creating and invoking functions
- Implementing recursive functions
- Calling and managing functions using the M Language
- Case Study: Building an ETL process to combine multiple Excel worksheets and files for analysis



DAY 2 - Afternoon Session

1:00 PM – 4:00 PM

8. Configuring Schedule Refresh with Power BI Gateway

- Introduction to the Power BI Gateway
- Infrastructure design and configuration recommendations for automation
- Installing and setting up the gateway
- Configuring schedule refresh and email notifications
- Workshop: Implementing automated data refresh with Power BI Gateway



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