INTERMEDIATE
POWER BI

IterationInsights

DURATION

4 HALF-DAYS

ABOUT THE COURSE

This online, instructor-led Power BI course is perfect for Power BI users who have been using the tool for 3-6 months.

In this course, we will expand upon basic Power BI concepts of transforming and cleansing data using Power Query Editor, writing basic Data Analysis Expression (DAX), and publishing dashboard visualizations to end-users.

This course focuses on data modelling so that you will be able to effectively manipulate data to provide rich personalized data models and dashboards. Learn the following Power BI skills that will take your data modelling to the next level:

- Apply various Power Query tools to enhance data and data modelling
- Design sophisticated dimensional data models
- Connect to a variety of common data sources
- Apply advanced DAX techniques
- Construct advanced DAX expressions

COURSE
SYLLABUS

1 UTILIZE POWER QUERY FOR POWER BI

- ✓ Connect to data sources
- ✓ Clean and transform data
- ✓ Merge tables to create relationships
- ✓ Describe how the Power BI products integrate
- ✓ Design patterns to infer relationships between data tables
- ✓ Navigate M language created by the data transformation
- ✓ Populate dimensional models using Power Query
- ✓ Remove data errors
- ✓ Generate custom columns

2 CREATE DIMENSIONAL DATA MODELLING FOR POWER BI

- ✓ Describe Dimensional Modeling and its importance
- ✓ Explain key terms and constructs
- ✓ Apply common design patterns in Dimensional Modelling
- ✓ Manipulate the Power BI data model

3 DESIGN ADVANCED DATA MODELLING USING POWER QUERY

- ✓ Explore parameters
- ✓ Use Power Query Editor to unpivot data
- ✓ Discuss Power Query performance optimization
- ✓ Explore data profiling
- ✓ Discuss M language
- ✓ Write custom functions in M language
- ✓ Perform advanced data modelling
- ✓ Use Power Query to build a dimensional model from raw data

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4 CONSTRUCT INTERMEDIATE DAX FUNCTIONS

✓ Explain intermediate DAX syntax
✓ Generate date tables using DAX
✓ Understand filter context options
✓ Apply filter arguments
✓ Format time-intelligence functions
✓ Apply common DAX expressions such as FILTER, SUM
✓ Discuss Time Intelligence functions
✓ Adjust for fiscal period offsets
✓ Convert measures from one currency to another
✓ Manage pre-existing hierarchies
✓ Solve complex parent-child hierarchies
✓ Manage multiple relationships across tables
✓ Understand many-to-many relationships