Tabular Editor and DAX Studio

***Pre-requisite:**

- Must have experience with Power BI data modeling and Visualization.

***Duration:** 3 Days/ 24 hours

Content Detail

Understanding DAX

1. Introduction to DAX
    - 1.1 Overview of DAX
    - 1.2 DAX Syntax and Structure
    - 1.3 DAX Data Types
2. DAX Functions
    - 2.1 Logical Functions
    - 2.2 Text Functions
    - 2.3 Date and Time Functions
    - 2.4 Math and Trig Functions
    - 2.5 Statistical Functions
    - 2.6 Information Functions
    - 2.7 Table Functions
3. DAX Operators
    - 3.1 Arithmetic Operators
    - 3.2 Comparison Operators
    - 3.3 Logical Operators
4. DAX Variables

4.1 Declaring and Using Variables

4.2 Variable Scope and Lifetime

5. DAX Calculations

5.1 Measures vs. Calculated Columns

5.2 Creating Basic Measures

5.3 Aggregations and Summarizations

5.4 Time Intelligence Calculations

6. DAX Context

6.1 Row Context

6.2 Filter Context

Tabular Editor

1. Introduction of Tabular Model
    - Briefly explain the purpose and importance of tabular models in data analysis.
    - Introduce Tabular Editor as a powerful tool for developing and managing tabular models.
2. Overview of Tabular Editor
    - Describe the key features and functionalities of Tabular Editor.
    - Highlight its role in Microsoft Analysis Services and Power BI.
3. Tabular Model Design
    - Explain how Tabular Editor allows users to design and define tabular models.
    - Discuss the creation of tables, relationships, calculated columns, measures, and hierarchies using the tool.
4. Scripting with Tabular Editor
    - Describe the scripting capabilities of Tabular Editor using the Tabular Object Model (TOM) and DAX language.
    - Provide examples of how scripting can automate tasks and customize model behavior.
5. Batch Operations and Best Practices
    - Explain the benefits of batch operations for managing tabular models efficiently.

- Discuss the Best Practices Analyzer and its role in ensuring model quality and performance.

6. Version Control and Collaboration
    - Highlight the integration of Tabular Editor with version control systems like Git and TFS.
    - Discuss the advantages of version control and collaboration in a team environment.
7. Performance Optimization
    - Explain the performance optimization features of Tabular Editor.
    - Discuss tools and techniques for enhancing query performance and data processing.
8. Tabular Editor and Power BI
    - Explain how Tabular Editor can be used in conjunction with Power BI.
    - Highlight the benefits of managing Power BI data models with Tabular Editor.
9. Case Studies or Examples
    - Provide real-world examples or case studies showcasing the use of Tabular Editor in data modeling and analysis.
10. Conclusion
    - Summarize the key points and benefits of using Tabular Editor.
    - Encourage the audience to explore and leverage Tabular Editor for their tabular modeling needs.

DAX Studio

1. Introduction to DAX Studio

- Overview
- Features
- Installation

2. Connecting to Data Sources

- Connecting to Power BI
- Connecting to Analysis Services
- Other Data Source Connections

3. DAX Querying and Editing

- DAX Query Editor
- Writing DAX Queries
- Formatting and Code Analysis

4. Advanced DAX Functions

1.TABLE MANIPULATION FUNCTIONS
    1.1 SUMMARISE
    1.2 Values
    1.3 ALL, ALLSELECTED, ALL EXCEPT
    1.4 SELECTCOLOUMS
    1.5 ADDCOLOUMNS
2. VERTIPAQ RELATIONSHIPS
3. RELATIONSHIP FUNCTIONS
4. JOIN AND UNION IN DAX
5. CALCUALTE FN ADVANCED ALTERNATIVE