KOENIG SOLUTIONS · COURSE OUTLINE

Tabular Editor and DAX Studio

Learn to write DAX and use Tabular Editor and DAX Studio to build, script and optimise tabular data models.

3 Days	3	59
24 HOURS	MODULES	TOPICS

COURSE OVERVIEW

This course covers the fundamentals of DAX, including its syntax, functions, operators, variables, calculations and context, before moving into Tabular Editor for designing tabular models, scripting with the Tabular Object Model, running batch operations, applying best practices, managing version control and optimising performance alongside Power BI. It then introduces DAX Studio for connecting to data sources such as Power BI and Analysis Services, writing and formatting DAX queries, and working with advanced DAX functions including table manipulation, relationship functions and joins and unions.

WHO THIS COURSE IS FOR

- **Data Analysts**
- **BI Developers**
- **Power BI Developers**
- **Data Modellers**
- **Analytics Engineers**

PREREQUISITES

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

LEARNING OBJECTIVES

- Explain DAX syntax, data types, operators and variables
- Apply DAX functions for logical, text, date and statistical operations
- Create measures, calculated columns and time intelligence calculations
- Describe row context and filter context in DAX calculations
- Design tabular models and relationships using Tabular Editor
- Implement scripting and batch operations with the Tabular Object Model
- Configure version control and collaboration for tabular models
- Analyse and optimise DAX queries using DAX Studio

COURSE SYLLABUS

3 Modules, 59 Topics

01

Understanding DAX

INTRODUCTION TO DAX

Overview of DAX · DAX Syntax and Structure · DAX Data Types

DAX FUNCTIONS

Logical Functions · Text Functions · Date and Time Functions · Math and Trig Functions · Statistical Functions · Information Functions · Table Functions

DAX OPERATORS

Arithmetic Operators · Comparison Operators · Logical Operators

DAX VARIABLES

Declaring and Using Variables · Variable Scope and Lifetime

DAX CALCULATIONS

Measures vs. Calculated Columns · Creating Basic Measures · Aggregations and Summarizations · Time Intelligence Calculations

DAX CONTEXT

Row Context · Filter Context

02

Tabular Editor

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

OVERVIEW OF TABULAR EDITOR

- Describe the key features and functionalities of Tabular Editor
- Highlight its role in Microsoft Analysis Services and Power BI

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

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

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

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

PERFORMANCE OPTIMIZATION

- Explain the performance optimization features of Tabular Editor
- Discuss tools and techniques for enhancing query performance and data processing

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

Tabular Editor (continued)

CASE STUDIES OR EXAMPLES

- Provide real-world examples or case studies showcasing the use of Tabular Editor in data modeling and analysis

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

03

DAX Studio

INTRODUCTION TO DAX STUDIO

Overview · Features · Installation

CONNECTING TO DATA SOURCES

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

DAX QUERYING AND EDITING

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

Advanced DAX Functions

TABLE MANIPULATION FUNCTIONS

SUMMARISE · Values · ALL, ALLSELECTED, ALL EXCEPT · SELECTCOLUMNS · ADDCOLUMNS

Vertipaq Relationships · Relationship Functions · Join and Union in DAX · Calculate Function Advanced Alternative

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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Learn the Way That Suits You

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