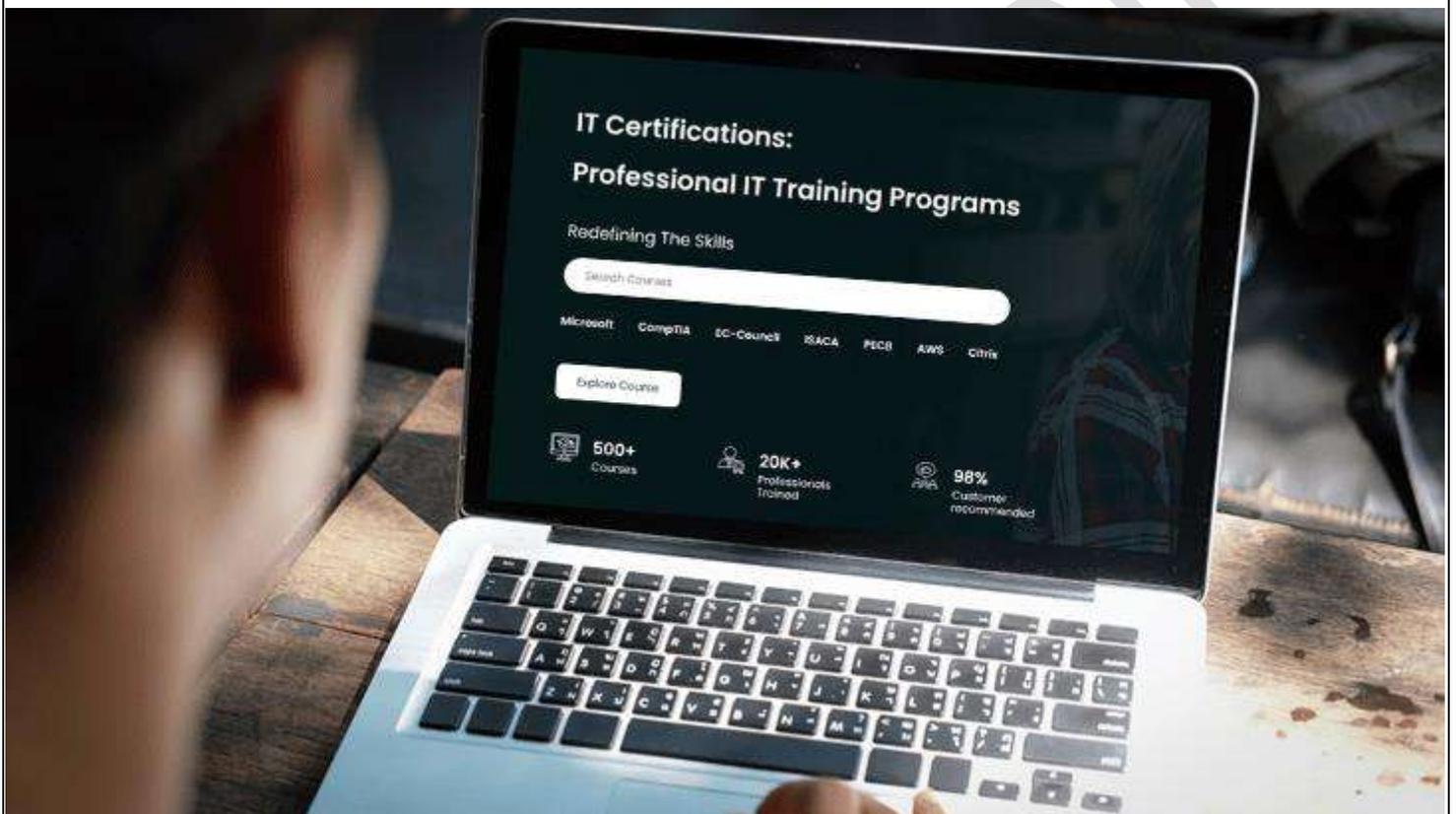




Redefining The Skills



55163: PREPARING YOUR DATA FOR POWER BI TRAINING

Duration: 2 Days

Course Description

The course introduces Learners to SQL BISM (Business Intelligence Semantic Model) Tabular model, DAX and data modeling.

This training is designed based on the objectives of the course variant 55163A.

Training Exclusives

- Live instructor-led interactive sessions with Microsoft Certified Trainers (MCT).
- Access to Microsoft Official Courseware (MOC).
- Real-time Virtual Lab Environment.
- Experience 24*7 Learner Support.
- Self-paced learning and flexible schedules.

Who should attend this course?

- The course is created for business intelligence developers, analysts and SQL professionals.

What you will learn

- Understanding version changes in SQL SAS.
- Understanding important terms.
- Understanding and utilizing SSDT for Tabular.
- Understanding and utilizing projects.
- Understanding and utilizing importing.
- Understanding and utilizing loading data.
- Understanding and utilizing examining views.
- Understanding and utilizing deployment.
- Understanding and utilizing data sources.
- Understanding and utilizing data credentials.
- Understanding and utilizing SQL as a source.
- Understanding and utilizing Excel as a source.
- Understanding and utilizing Flat Files as a source.
- Understanding and utilizing Azure as a source.
- Understanding and utilizing SharePoint as a source.
- Understanding and utilizing sorting during load.
- Understanding querying with MDX.
- Understanding and utilizing DAX syntax.
- Understanding and utilizing DAX operators.
- Understanding and utilizing DAX values.
- Understanding and utilizing measures.
- Understanding and utilizing calculated columns.
- Understanding evaluation contexts.
- Understanding and utilizing date calculations.
- Understanding and utilizing importing related tables.
- Understanding and utilizing creating relationships.
- Understanding and utilizing hierarchies.
- Understanding Direct Query.
- Understanding and utilizing KPIs.
- Understanding drill-through.

- Understanding perspectives.
- Understanding and utilizing PowerPivot.
- Understanding and utilizing Pivot Tables.
- Understanding and utilizing Power View.
- Understanding and utilizing operator overloading and DAX data types.
- Understanding Installation and Architecture of Analysis Services: One Product, Two Models.

Prerequisites

- Working knowledge of SQL Server

Curriculum

Module 1: Course Overview

This module explains how the class will be structured and introduces course materials and additional administrative information.

Lessons

- Introduction
- Course Materials
- Facilities
- Prerequisites
- What We'll Be Discussing

Lab 1: Course Overview

- None

After completing this module, students will be able to:

- Successfully log into their virtual machine.
- Have a full understanding of what the course intends to cover.

Module 2: What is the Tabular Model?

SQL Server Analysis Services (SSAS) provides two different approaches for data modeling: multidimensional and tabular. While there is substantial overlap between them, there are also significant differences. In this module, we discuss feature comparisons and explain each approach, then we'll dive deeper into the tabular model as that is the focus for this course.

Lessons

- Analysis Services Installation and Architecture: One Product, Two Models
- Version Changes: SQL Server Analysis Services
- Important Terms
- SQL Server Data Tools for Tabular

Lab 1: What is the Tabular Model?

- SQL Server Data Tools for Tabular

After completing this module, students will be able to:

- Understand Analysis Services Installation and Architecture: One Product, Two Models.
- Understand version changes: SQL Server Analysis Services.
- Understand important terms.

- Understand and utilize SQL Server Data Tools for Tabular.

Module 3: Working in Tabular

In this module, we cover the specifics of creating projects, discuss options to either import or load data, and explore deployment.

Lessons

- Projects
- Importing
- Loading Data
- Examining Views
- Deployment

Lab 1: Working in Tabular

- Creating a Tabular Project

Module 4: Working in Tabular

After completing this module, students will be able to:

- Understand and utilize projects.
- Understand and utilize importing.
- Understand and utilize loading data.
- Understand and utilize examining views.
- Understand and utilize deployment.

Module 5: Understanding Loading Data from Different Sources

In this module, we will explore data sources, the credentials needed to access them, and cover a few of the most common sources available.

Lessons

- Data Sources
- Data Credentials
- SQL as a Source
- Excel as a Source
- Flat Files as a Source
- Azure as a Source
- SharePoint as a Source
- Sorting During Load

Lab 1: Understanding Loading Data from Different Sources

- None

After completing this module, students will be able to:

- Understand and utilize data sources.
- Understand and utilize data credentials.
- Understand and utilize SQL as a source.
- Understand and utilize Excel as a source.
- Understand and utilize Flat Files as a source.
- Understand and utilize Azure as a source.
- Understand and utilize SharePoint as a source.
- Understand and utilize sorting during load.

Module 6: Using DAX and MDX

In this module, we will discuss two different languages: DAX and MDX. We will briefly explore MDX and its use with a tabular model, then we'll cover DAX and walk-through how to use this powerful language.

Lessons

- Querying with MDX
- Basic DAX Syntax
- Evaluation Context
- Calculate Function
- Time Intelligence

Lab 1: Using DAX and MDX

- DAX Syntax
- DAX Data Types and Operator Overloading
- DAX Operators
- DAX Values
- Measures
- Calculated Columns
- Evaluation Contexts
- Date Calculations

After completing this module, students will be able to:

- Understand querying with MDX.
- Understand and utilize DAX syntax.
- Understand and utilize DAX data types and operator overloading.
- Understand and utilize DAX operators.
- Understand and utilize DAX values.
- Understand and utilize measures.
- Understand and utilize calculated columns.
- Understand evaluation contexts.
- Understand and utilize date calculations.

Module 7: Building Data Models

In this module, we will discuss data modeling basics and explore how to utilize these concepts effectively.

Lessons

- Importing Related Tables
- Creating Relationships
- Hierarchies
- Direct Query
- KPIs
- Drill through
- Perspectives

Lab 1: Building Data Models

- Creating Relationships
- Hierarchies

After completing this module, students will be able to:

- Understand and utilize importing related tables.

- Understand and utilize creating relationships.
- Understand and utilize hierarchies.
- Understand Direct Query.
- Understand and utilize KPIs.
- Understand drill through.
- Understand perspectives.

Module 8: Excel PowerPivot and Tabular

In this module, we will discuss utilizing DAX with PowerPivot, pivot tables, and Power View.

Lessons

- Working with PowerPivot
- Working with Pivot Tables
- Working with Power View

Lab 1: Excel PowerPivot and Tabular

- Importing Data
- Importing Large Datasets
- Importing Data with a Query
- Creating Relationships
- Creating a Cascading Relationship
- Power View

After completing this module, students will be able to:

- Understand and utilize PowerPivot.
- Understand and utilize Pivot Tables.
- Understand and utilize Power View.

For any query Contact Us – Microtek Learning
