

# 55163: Preparing Your Data for Power BI

## Course Details

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### Course Outline

#### 1. What is the Tabular Model?

- Analysis Services Installation and Architecture: One Product, Two Models
- Version Changes: SQL Server Analysis Services
- Important Terms
- SQL Server Data Tools for Tabular
- **Lab : What is the Tabular Model?**
  1. SQL Server Data Tools for Tabular

#### 2. Working in Tabular

- Projects
- Importing
- Loading Data
- Examining Views
- Deployment
- **Lab : Working in Tabular**
  1. Creating a Tabular Project

#### 3. Working in Tabular

#### 4. Understanding Loading Data From Different Sources

- 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 : Understanding Loading Data From Different Sources**

## 5. Using DAX and MDX

- Querying with MDX
- Basic DAX Syntax
- Evaluation Context
- Calculate Function
- Time Intelligence
- **Lab : Using DAX and MDX**
  1. DAX Syntax
  2. DAX Data Types and Operator Overloading
  3. DAX Operators
  4. DAX Values
  5. Measures
  6. Calculated Columns
  7. Evaluation Contexts
  8. Date Calculations

## 6. Building Data Models

- Importing Related Tables
- Creating Relationships
- Hierarchies
- Direct Query
- KPIs
- Drillthrough
- Perspectives
- **Lab : Building Data Models**
  1. Creating Relationships
  2. Hierarchies

## 7. Excel PowerPivot and Tabular

- Working with PowerPivot
- Working with Pivot Tables
- Working with PowerView
- **Lab : Excel PowerPivot and Tabular**
  1. Importing Data
  2. Importing Large Datasets

3. Importing Data with a Query
4. Creating Relationships
5. Creating a Cascading Relationship
6. Power View