



MICROSOFT SQL SERVER BUSINESS INTELLIGENCE

Course ID : MS-SQL-19-BI-L1



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Duration: 5 Days

(30 Hours) 09:00 AM – 04:00 PM



Price: Call

* In-house training only

* Eligible for 200% tax deduction



Training Schedule

www.9experttraining.com

Category: Data

This course covers the full spectrum of Business Intelligence (BI) capabilities in SQL Server, from SQL Server Integration Services (SSIS) to SQL Server Reporting Services (SSRS). Microsoft SQL Server serves not only as a data platform but also as a comprehensive BI solution, offering SSIS for ETL processes, SQL Server Analysis Services (SSAS) for analytical modeling, and SSRS for data visualization and reporting. The course also demonstrates how to integrate Power BI with SSAS to achieve enhanced analytical performance.

Objectives

1. Participants will be able to work with SQL Server Integration Services (SSIS).
2. Participants will be able to work with SQL Server Analysis Services (SSAS).
3. Participants will be able to understand the processes and operations of SQL Server Reporting Services (SSRS).

Target Audience

1. Data engineers seeking enterprise-level data modeling tools
2. Data engineers looking for hands-on ETL experience with SSIS
3. Data engineers interested in building tabular and multidimensional models using SSAS
4. Data analysts aiming to create data models for Power BI
5. Data analysts preparing data in SQL Server for use with Power BI
6. Business analytics professionals working with tabular, data warehouse, or multidimensional models
7. Chief Data Officers (CDOs)
8. Directors and Managers
9. Individuals who are interested in the subject.

Prerequisites

1. Knowledge of Microsoft SQL Server Administration
2. Basic programming knowledge
3. Experience working with SQL Server database queries

System Requirements

1. Windows 11 or Windows 10
2. CPU : A Minimum 1.6 GHz or faster processor
3. RAM : 8GB or more
4. Remote Desktop Connection
5. An Internet connection

TOPICS TRAINING

1. Introduction to SQL BI

- Data warehouse design
- Planning the file structure of a data warehouse

Part SQL Server Integration Services (SSIS)

- Introduction to ETL with SSIS
- Exploring source data
- Using Data Flow

2. Control Flow in SSIS Packages

- Utilizing the Control flow
- Creating dynamic packages
- Using containers
- Managing workflow continuity
- Debugging SSIS packages
- Logging events
- Handling error in SSIS packages

3. Data Extraction and Loading

- Planning data extraction
- Extracting changed data
- Extracting row using datetime columns
- Understanding Change Data Capture (CDC)
- Understanding Change Tracking

- Planning data loading
- Using SSIS for incremental loading

4. Data Quality and Master Data Management

- Introduction to Microsoft Data Quality Services (DQS)
- Performing data cleansing with DQS
- Performing data deduplication with DQS
- Introduction to Master Data Services (MDS)
- Creating MDS models
- Enforcing business rules
- Entering data into MDS models

5. Deploying and Configuring Packages

- Understanding deployment concepts
- Deploying using the SSIS Project Deployment Model
- Planning and scheduling SSIS package execution

Part SQL Server Analysis Services (SSAS) – Multi-Dimensional Model

6. Creating a Multidimensional Model

- Introduction to Microsoft Data Quality Services (DQS)
- Performing data cleansing with DQS
- Performing data deduplication with DQS
- Introduction to Master Data Services (MDS)
- Creating MDS models
- Enforcing business rules
- Entering data into MDS models

7. Managing Dimensions

- Configuring dimensions
- Defining hierarchies
- Sorting and grouping attributes

8. Measures and Measure Groups

- Using measures
- Using measure groups

9. Advanced Cube Customization

- Using KPIs
- Understanding actions, perspectives, and translations

Part SQL Server Reporting Services (SSRS) and Power BI Integration

10. Demonstrating paginated reports in SSRS

- Demonstrating mobile reports in SSRS
- Demonstrating live connections in Power BI
- Demonstrating Power BI Reporting Service



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