

MSBI (SSIS, SSRS, SSAS) Training – Syllabus

Module 1: Introduction to MSBI

- Overview of Microsoft Business Intelligence (MSBI)
- MSBI Architecture and Tools
- Key Components: SSIS, SSRS, SSAS
- Real-world Applications of MSBI

Part 1: SQL Server Integration Services (SSIS)

Module 2: SSIS Basics

- Introduction to ETL Process
- SSIS Architecture and Components
- Creating and Managing SSIS Packages
- Control Flow and Data Flow Elements

Module 3: Data Flow in SSIS

- Data Sources and Destinations
- Transformations: Lookup, Merge, Sort, Aggregate, Conditional Split
- Variables and Parameters
- Error Handling and Logging

Module 4: Advanced SSIS Concepts

- Dynamic Package Configuration

- ForEach Loop and Containers
- Deploying SSIS Packages
- SSIS Security and Best Practices

Part 2: SQL Server Reporting Services (SSRS)

Module 5: SSRS Basics

- Introduction to Reporting Services
- SSRS Architecture Overview
- Creating and Managing Reports
- Designing Simple Tabular and Matrix Reports

Module 6: Advanced Report Designing

- Grouping and Sorting in Reports
- Drill Down, Drill Through, and Sub Reports
- Parameters and Filters
- Charts, Maps, and Visualization Techniques

Module 7: Report Deployment and Management

- Deploying Reports to Report Server
- Subscription and Scheduling Reports
- Managing Security and Permissions
- Report Optimization and Performance

Part 3: SQL Server Analysis Services (SSAS)

Module 8: SSAS Basics

- Introduction to Data Warehousing and OLAP
- SSAS Architecture and Components
- Building OLAP Cubes
- Dimensions, Measures, and Aggregations

Module 9: Cube Development and Management




- Creating Data Sources and Data Source Views
- Building and Deploying Cubes
- Browsing Cubes and Basic MDX Queries
- Partitions and Processing Cubes

Module 10: SSAS Advanced Topics

- Introduction to Tabular Models
- KPIs, Actions, and Perspectives
- Security Implementation in Cubes
- Best Practices in Cube Design

Module 11: Real-Time Project Work

- End-to-End MSBI Solution Development
- ETL with SSIS → Reporting with SSRS → Analytics with SSAS
- Project Presentation and Feedback

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