

SSIS Contents

1. Introduction to SQL Server Integration Services

- a. SSIS Historical Overview
- b. SSIS Architecture
- c. Tools of the Trade
- d. Creating a Simple Package

2. SSIS Tools

- a. Import and Export Wizard
- b. SQL Server Data Tools
- c. SQL Server Management Studio
- d. Command-Line Utilities

3. SSIS Tasks

- a. Looping and Sequence Tasks
- b. Data Flow Task
- c. Data Preparation Tasks
- d. Workflow Tasks
- e. Administration Tasks
- f. Execute Package Task
- g. Script Task (.NET)

4. Working with Containers
 - a. Sequence Containers
 - b. Groups
 - c. For Loop Container
 - d. Foreach Loop Container
5. The Data Flow
 - a. Understanding the Data Flow
 - b. Sources & Destinations
 - c. Common Transformations
6. Using Variables, Parameters and Expressions
 - a. Dynamic Package Objects
 - b. Understanding Data Types
 - c. Using Variables and Parameters
 - d. Working with Expressions
7. Loading a Data Warehouse
 - a. Data Profiling
 - b. Data Extraction and Cleansing
 - c. Dimension Table Loading
 - d. Fact Table Loading
 - e. SSAS Processing

8. Accessing Heterogeneous Data

- a. The Connection Managers
- b. Excel and Access
- c. Using XML and Web Services
- d. Flat Files
- e. Other Heterogeneous Sources

9. Error and Event Handling

- a. Package Transactions
- b. Using Precedence Constraints
- c. Event Handling
- d. Breakpoints
- e. Error Rows
- f. Logging

10. SSIS Administration

- a. Deployment Models
- b. Package Configuration
- c. Security
- d. Scheduling Packages
- e. Monitoring Package Executions

SSAS Contents

1. Business Intelligence and Data Warehousing
2. OLAP and Analysis Services
3. First Cube
4. Design Fundamentals
5. Data Source and Data Source Views (Creating and Modifying)
6. SSAS Cube (Creating and Modifying)
7. Dimensions (Creating and Modifying , hierarchies , assigning dimension to cube)
8. Implementing a Star and Snowflake Schema
9. Star Modeling, Snow flex Modeling, Data worth Design, SSIS Design for data loading, Cube Design (SSAS), MDX and Olap
10. Measure Group (Creating, adding measure group and measure)
11. Adding KPIs (Goal,Status,Trend), Actions (URL,DrillThrough,Reporting) etc.
12. Storage Modes.
13. Perspective
14. Translations.
15. Production Management
16. Deployment (impersonation mode, processing cube)
17. Partitions (partitions), Aggregations (Aggregations Design , Usage based optimization)

18. MDX

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