



7. Microsoft Training

7.8 Business Intelligence

Duration: 30 Lectures

Course Content:

1. Introduction

- 1.1. Introduction to SQL Server Integration Services
- 1.2. Product History
- 1.3. SSIS Package Architecture Overview
- 1.4. Development and Management Tools
- 1.5. Deploying and Managing SSIS
- 1.6. Packages
- 1.7. Source Control for SSIS Packages

2. SSIS for DBAs

- 2.1. Using SQL Server Management Studio
- 2.2. The Import and Export Wizard
- 2.3. Importing and Exporting Data
- 2.4. Working with Packages
- 2.5. Database Maintenance Plans
- 2.6. Creating Database Maintenance Plans using SSMS

3. Business Intelligence Development Studio

- 3.1. Launching BIDS
- 3.2. Project templates
- 3.3. The package designer
- 3.4. The Toolbox
- 3.5. Solution Explorer
- 3.6. The Properties window
- 3.7. The Variables window



3.8. The SSIS menu

4. Introduction to Control Flow

- 4.1. Control Flow Overview
- 4.2. Precedence Constraints
- 4.3. The Execute SQL Task
- 4.4. The Bulk Insert Task
- 4.5. The File System Task
- 4.6. The FTP Task
- 4.7. The Send Mail Task

5. Advanced Control Flow

- 5.1. Containers grouping and looping
- 5.2. The Web Service Task
- 5.3. The WMI tasks
- 5.4. The Analysis Services tasks
- 5.5. The Execute Process Task
- 5.6. The Execute Package Task

6. Introduction to Data Flow

- 6.1. Data Flow Overview
- 6.2. Data Sources
- 6.3. Data Destinations
- 6.4. Data Transformations
- 6.5. The Copy Column Transformation
- 6.6. The Derived Column Transformation
- 6.7. The Data Conversion Transformation
- 6.8. The Conditional Split Transformation
- 6.9. The Aggregate Transformation
- 6.10. The Sort Transformation
- 6.11. Data Viewers

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7. Variables and Configurations

- 7.1. Variables Overview
- 7.2. Variable scope
- 7.3. SSIS system variables
- 7.4. Using variables in control flow
- 7.5. Using variables in data flow
- 7.6. Using variables to pass information between packages
- 7.7. Property expressions
- 7.8. Configuration Overview
- 7.9. Configuration options

8. Debugging, Error Handling and Logging

- 8.1. SSIS debugging overview
- 8.2. Breakpoints in SSIS
- 8.3. SSIS debugging windows
- 8.4. Control Flow: The OnError event
- 8.5. Handler
- 8.6. Data Flow: Error data flow
- 8.7. Configuring Package Logging
- 8.8. Built-in log providers

9. Advanced Data Flow

- 9.1. Revisiting data sources and
- 9.2. Destinations
- 9.3. The Lookup Transformation