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SQL Server Integration Services- SSIS

Introduction to SQL Server Integration Services

- SSIS Framework/Architecture
- SSIS Package Architecture Overview
- Development and Management Tools
- The Import and Export Wizard

Introduction to Data Flow

- Data Flow Overview
- Data Sources
- Data Destinations
- Data Flow Transformations
- Data Viewers

Data Sources

- Excel Source
- Flat File Source
- OLE DB Source
- XML Source

Data Flow Transformations

- Aggregate Transformation
- Audit Transformation
- Character Map Transformation
- Conditional Split Transformation
- Copy Column Transformation
- Derived Column Transformation
- Data Conversion Transformation
- Multicast Transformation
- OLE DB Command Transformation
- Percentage Sampling Transformation
- Row Count Transformation
- Sort Transformation
- Union All Transformation

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Advanced Data Flow Transformations

- Lookup Transformation
- Merge Transformation
- Merge Join Transformation
- Slowly Changing Dimension Transformation
- Pivot Transformation
- Export Transformation
- Import Transformation
- Unpivot Transformation

Data Flow Destinations

- Data Reader Destination
- Excel Destination
- Flat File Destination
- OLE DB Destination

Introduction to Control Flow

- Control Flow Overview
- Precedence Constraints
- The Execute SQL Task
- The Bulk Insert Task
- The File System Task
- The FTP Task
- The Send Mail Task
- Bulk Insert Task
- Data Flow Task
- Execute DTS 2000 Package Task
- Execute Package Task
- Execute Process Task
- Web Service Task
- XML Task

Advanced Control Flow

- For Loop Container
- For Each Loop Container
- Sequence Container

Variables and Configurations

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- Variables Overview
- Variable scope
- SSIS system variables
- Using variables in control flow
- Using variables in data flow
- Using variables to pass information between packages
- Property expressions
- Configuration Overview
- Configuration options
- Configuration discipline

Debugging, Error Handling and Logging

- SSIS debugging overview
- Configuring Package Logging
- Breakpoints in SSIS
- Event handler in SSIS
- Configure Error output in Data Flow
- Data Viewers
- Configure Check Points
- Transactions in SSIS
- SSIS Security

Extending SSIS through Custom Code – Scripting

- Introduction to SSIS scripting
- The SSIS script editor
- The SSIS object model
- Script in Control flow: The Script Task
- Script in Data flow: The Script Component
- Introduction to SSIS component development

SSIS Deployment

- Create Configuration Files
- Implement Logging
- Different Deployment Options
- Executing packages using utilities – DTEXEC and DTEXECUI
- Schedule SSIS Packages with SQL Server Agent Jobs
- Monitoring Jobs in SQL Server
- Call SSIS Packages in Stored Procedures
- Call SSIS Packages in command prompt

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