SQL Server Integration Services

Target Audience

This course is for people who want to be able extract, transform and load data between SQL Server and other systems. Targets and sources include CSV files, Excel spread sheets and Access databases.

The Content

Introduction to Integration Services
* Defining SQL Server Integration Services (SSIS)
* Exploring the need for migrating diverse data
* The role of Business Intelligence (BI)

SSIS Architecture and Tools
* Managing heterogeneous data
* Leveraging the Extract, Transform and Load (ETL) capabilities of SSIS
* Running wizards for basic migrations
* Creating packages for complex tasks
* Illustrating SSIS architecture
* Distinguishing between data flow pipeline and package runtime
* Executing packages on the client side or hosted in the SSIS service
* Simplifying deployments
* Switching between project and package deployment modes
* Deploying packages to the SSISDB
* Running packages from SQL Server
* Leveraging package parameters

Implementing Tasks and Containers
* Utilizing basic SSIS objects
* Configuring connection managers
* Adding data flow tasks to packages
* Reviewing progress with data viewers
* Assembling tasks to perform complex data migrations
* Migrating multiple files with FOREACH container
* Operating system-level tasks
* Copying, moving and deleting files
* Communicating with external sources

Extending Capabilities with Scripting
* Writing expressions
* Making properties dynamic with variables
* Utilizing expressions in loop iterations
* Debugging, breakpoints and watches
* Accessing and controlling reports using URLs

Transforming with the Data Flow Task
* Performing transforms on columns
* Converting and calculating columns
* Transforming with Character Map
* Profiling, combining and splitting data
* Merge, Union and Conditional Split
* Multicasting and converting data
* Aggregate, sort, audit and look up data
* Redirecting error rows
* Performing database operations
* Executing a SQL task
* Bulk inserting data from text files

Error Handling, Logging and Transactions
* Organizing package workflow
* Defining success, failure, completion and expression precedence constraints
* Handling events and event bubbling

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