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OBJECTIVES

This course will enable technology professionals with little or no ETL experience and minimal exposure to SQL Server 2005 and Visual Studio 2005 to be comfortable and productive with the SSIS tools and technologies. In this course you will learn about the SQL Server Management Studio (SSMS) and building Database Maintenance Plans. You will be introduced to the Business Intelligence Development Studio (BIDS) and working with Control Flow and Data Flow. You will also become familiar with SSIS package management and package deployment along with learning to write solid code using debugging, error handling and logging techniques.

EXPERIENCE

This course does not require any prior experience with Integration Services. It is assumed that students have working experience with SQL Server 2000 or 2005 and familiarity with the Visual Studio 2005 development environment.

CLASS OUTLINE

- Introduction to SQL Server Integration Services
 - Product History
 - SSIS Package Architecture Overview
 - Development and Management Tools
 - Deploying and Managing SSIS Packages
 - Source Control for SSIS Packages
- SSIS for DBAs: Using SQL Server Management Studio

- The Import and Export Wizard
- Importing and Exporting Data
- Working with Packages
- Database Maintenance Plans
- Creating Database Maintenance Plans using SSMS
- Scheduling and Executing Plans
- Examining Database Maintenance Plan Packages
- Changes in SQL Server 2005 Service Pack 2
- Business Intelligence Development Studio
 - Launching BIDS
 - Project templates
 - The package designer
 - The Toolbox
 - Solution Explorer
 - The Properties window
 - The Variables window
 - The SSIS menu
- 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

- Advanced Control Flow
 - Containers – grouping and looping
 - The Web Service Task
 - The WMI tasks
 - The Analysis Services tasks
 - The Execute Process Task
 - The Execute Package Task

- Introduction to Data Flow
 - Data Flow Overview
 - Data Sources
 - Data Destinations
 - Data Transformations
 - The Copy Column Transformation
 - The Derived Column Transformation
 - The Data Conversion Transformation
 - The Conditional Split Transformation
 - The Aggregate Transformation
 - The Sort Transformation
 - Data Viewers

- Variables and Configurations
 - 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
 - Breakpoints in SSIS
 - SSIS debugging windows
 - Control Flow: The OnError event handler
 - Data Flow: Error data flow
 - Configuring Package Logging
 - Built-in log providers
- Advanced Data Flow
 - Revisiting data sources and destinations
 - The Lookup Transformation
 - Getting Fuzzy: The Fuzzy Lookup and Fuzzy Grouping Transformations
 - The Multicast Transformation
 - The Merge and Merge Join Transformations
 - The Data Mining Query Transformation
 - The Data Mining Model Training Destination
 - The Slowly Changing Dimension Transformation
- Extending SSIS through Custom Code
 - 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 Package Deployment
 - Configurations and deployment
 - The deployment utility
 - Deployment options
 - Deployment security
 - Executing packages – DTEXec and DTEXecUI
- SSIS Package Management
 - The SSIS Service
 - Managing packages with DTUtil
 - Managing packages with SQL Server Management Studio
 - Scheduling packages with SQL Server Agent (Web Services)