



Exclusive Value Additions

- CYU – Check Your Understanding
- LOTW – Learning On The Walls
- PPR – Participant Progress Report
- PTS – Post Training Support (Web)

SQL SERVER INTEGRATION SERVICES (SSIS)-2014

Duration: 4 Days

INTRODUCTION TO BUSINESS INTELLIGENCE

- ❖ Database
- ❖ Data Warehouse
- ❖ Business Intelligence
- ❖ Microsoft Business Intelligence

THE BIG PICTURE

- ❖ Microsoft Business Intelligence Suite
- ❖ The SSIS Architecture
- ❖ Import/Export Wizard
- ❖ Introducing SSDT-BI

IMPLEMENTING CONTROL FLOW

- ❖ Control Flow Tasks
- ❖ Creating a Simple Control Flow
- ❖ Control Flow Precedent Constraints
- ❖ Commonly Used Control Flows
- ❖ Manipulating Files with the File System Task
- ❖ Coding Custom Script Tasks
- ❖ Using the Execute SQL Task
- ❖ Using the Execute Process Task
- ❖ Using the Expression Task
- ❖ Using the Send Mail Task
- ❖ Using the FTP Task
- ❖ Creating a Data Flow
- ❖ Transfer Database Task
- ❖ Data Profiling Task
- ❖ WMI Reader Task
- ❖ SQL Server Analysis Processing Task
- ❖ Transfer SQL Server Objects Task
- ❖ XML Task

IMPLEMENTATION OF CONTAINERS

- ❖ For Loop Containers
- ❖ For Each Loop Containers
- ❖ Scope of Variables Inside the Container
- ❖ Nested Containers
- ❖ File Enumerator Collection



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- ❖ ADO Enumerator Collection
- ❖ Sequence Container

IMPLEMENTING DATA FLOW

- ❖ Data Flow Sources and Destinations
- ❖ Transferring Data
- ❖ Implementing Transformations
- ❖ Basic Data Flow Transformations
- ❖ Advanced Data Flow Transformations
- ❖ Lookup
- ❖ Fuzzy lookup
- ❖ Merge
- ❖ Merge Join
- ❖ Pivot
- ❖ Union All
- ❖ Audit
- ❖ Aggregate
- ❖ Using Data Viewers
- ❖ Data Flow Paths

IMPLEMENTING ERROR HANDLING AND LOGGING

- ❖ Configuring Error Output
- ❖ Overview of Integration Services Logging
- ❖ Configuring Logging
- ❖ Using Logging
- ❖ Implementing Custom Logging
- ❖ Event Handlers

DEBUGGING AND ERROR HANDLING

- ❖ Debugging a Package
- ❖ Break Point
- ❖ Implementing Different Conditional Break Point
- ❖ Break point Occurrence

IMPLEMENTING CHECKPOINTS AND TRANSACTIONS

- ❖ Implementing Checkpoints
- ❖ Usage of Check Point File
- ❖ Implementing Transactions
- ❖ Configuring Transactions
- ❖ Implementing a Nested Transactions



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MAKING PACKAGES DYNAMIC

- ❖ Using Variables
- ❖ Understanding Package Parameters
- ❖ Understanding Project Parameters
- ❖ Working with Expressions

DEPLOYING TO THE SSIS CATALOG

- ❖ Introduction to the SSIS Catalog
- ❖ Creating Environments
- ❖ Deploying Projects
- ❖ Backwards Compatibility
- ❖ Executing Packages in SQL Server Management Studio (SSMS)

INSTALLING AND ADMINISTERING SSIS IN PROJECT DEPLOYMENT MODE

- ❖ Installing SSIS
- ❖ Installing and Configuring the SSISDB Catalog
- ❖ Creating Environments
- ❖ Deploying Projects

WORKING WITH PACKAGES IN AN SSIS CATALOG

- ❖ Executing Packages with Environments in SSMS
- ❖ Viewing Built-in SSIS reports
- ❖ Executing packages from the command line
- ❖ Scheduling packages
- ❖ Reviewing Catalog Metadata

SECURING THE SSIS CATALOG

- ❖ Principals
- ❖ Securable
- ❖ Minimum Requirements Needed for Specific Tasks
- ❖ Removing database users from SSIS Catalog