Wise Owl Training

Introduction to SSIS

2 day training course







Course contents

This course will cover the following topics. Those marked with (*) will be covered if time allows.

SSIS basics

- Solutions and projects
- Basic packages
- Control and data flow tasks
- The 32-bit question

Data flow tasks

- Connection managers
- Sources and destinations

Using different data connections

- SQL Server (OLEDB)
- Connecting to Excel workbooks
- New and existing flat files
- Multiple flat files

Data viewers

- Attaching data viewers
- Data buffers

Basic data transforms

- Sorting and aggregating
- Sampling data
- Dividing and uniting data

Data conversion transforms

- The SSIS data types
- Unicode and ASCII data
- Type cast functions

Variables and expressions

- The Row Count transform
- User and system variables
- Expression tasks

Debugging

- Setting breakpoints
- The Locals window

Derived column transforms

- SSIS expressions
- Using SSIS functions
- Using the conditional operator

Handling errors

- Redirecting and ignoring errors
- Truncation errors

Conditional split transforms

- Splitting data by expression
- Using comparison operators
- Syntax for multiple conditions

Lookup transforms

- Redirecting unmatched rows
- Choosing a cache mode
- Setting unmatched rows to Unknown
- Adding unmatched rows automatically

File system tasks

- Working with files
- Working with folders

Looping over files

- The file name variable
- Configuring the loop
- Expression constraints

Importing multiple files

- Using expressions for connections
- Dynamic connections within loops

Looping over rows (*)

- Object variables
- Reading in data
- Looping over ADO rows
- Dynamic connection strings

Using parameter placeholders

- Using the ? Symbol
- Mapping parameters

Merge joins

- How they work
- Comparing two data sets

Basic deployment

- Project-level deployment
- Creating a catalog
- Deploying and viewing in SSMS

Using parameters (*)

- Package and project parameters
- Using parameters in expressions
- Deploying parameters
- Why to avoid environments