Course Title: SQL Server 2008 Integration Services

Course Description:
Employ effective data transformation concepts.

Course Prerequisite(s):
SQL Server 2008 Essentials

Course Objectives:
Learn to load and synchronize database systems using SSIS by using some of the new SQL Server 2008 features.

Textbook(s): Required
Knight’s 24-Hour Trainer Microsoft SQL Server 2008 Integration Services
WROX; Brian Knight, Devin Knight, Mike Davis; ISBN: 978-0-470-49692-3

Next Class Possibilities:
SQL Server 2008 Analysis Services
SQL Server 2008 Reporting Services

Lesson Plan – by week or session
Session 1: Moving Data with the Import and Export Wizard
Installing SQL Server Integration Services
Installing the Sample Databases
Creating a Solution and Project
Exploring Business Intelligence Development Studio
Creating Your First Package

Session 2: Coding Custom Script Tasks
Connecting Control Flow Tasks and Precedence Constraints
Manipulating Files with the File System Task
Using the Execute SQL Task
Using the Send Mail Task
Using the FTP Task

Session 3: Creating a Data Flow
Extracting Data from Sources
Loading Data to a Destination
Changing Data Types with the Data Conversion Transform
Creating and Replacing Columns with the Derived Column Transform
Rolling Up Data with the Aggregate Transform

Session 4: Ordering Data with the Sort Transform
Joining Data with the Lookup Transform (without Cache Connection Manager)
Joining Data with the Lookup Transform (with Cache Connection Manager)
Auditing Data with the Row Count Transform
Combining Multiple Inputs with the Union All Transform
Cleansing Data with the Script Component

Session 5: Separating Data with the Conditional Split Transform
Altering Rows with the OLE DB Command Transform
Handling Bad Data with the Fuzzy Lookup Transform
Removing Duplicates with the Fuzzy Grouping Transform
Making a Package Dynamic with Variables
Making a Connection Dynamic with Expressions

Session 6:
Making a Task Dynamic with Expressions
Using Sequence Containers to Organize a Package
Using For Loop Containers to Repeat Control Flow Tasks
Using the Foreach Loop Container to Loop through a Collection of Objects
Easing Deployment with Configuration Tables
Easing Deployment with Configuration Files

Session 7:
Configuring Child Packages
Logging Package Data
Using Event Handlers
Troubleshooting Errors
Using Data Viewers
Using Breakpoints

Session 8:
Deploying Packages
Configuring the SSIS Service
Securing SSIS Packages
Running SSIS Packages
Scheduling Packages
Loading a Dimension Table
Loading a Fact Table