

Sela.



SSIS

SQL Server Integration Services



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SQL Server Integration Services

SSIS - Version: 1

 5 days Course

Description:

This course teaches how to build simple as well as complex data integration solutions using Microsoft SQL Server Integration Services. The course covers all aspects of development, deployment and administration of SSIS packages.

The course is based on SQL Server 2019, but it is relevant also for previous versions of SQL Server.

Intended audience:

The course is intended for SQL Server developers, administrators and analysts who need to migrate and transform data amongst diverse platforms. Students should be familiar with the following topics:

- Transact-SQL
- SQL Server Agent
- SQL Server Security

Prerequisites:

Objectives:

- Be familiar with SSIS architecture and components
- Learn how to implement SSIS packages
- Learn how to implement logging in an SSIS package
- Be able to debug and implement error handling in an SSIS package



Learn how to implement checkpoints and transactions in an SSIS package

Learn how to configure and deploy an SSIS package

Understand how to manage and secure an SSIS package

Topics:

Introduction to SQL Server Integration Services

- SSIS Historical Overview
- SSIS Architecture
- Tools of the Trade
- Creating a Simple Package

SSIS Tasks

- Tasks Overview
- Data Preparation Tasks
- RDBMS Server Tasks
- Workflow Tasks
- Administration Tasks
- Script Task (.NET)

Working with Containers

- Sequence Containers
- Groups
- For Loop Container
- Foreach Loop Container



The Data Flow

- Understanding the Data Flow
- Sources & Destinations
- Common Transformations
- Other Transformations

Using Variables, Parameters and Expressions

- Dynamic Package Objects
- Understanding Data Types
- Using Variables and Parameters
- Working with Expressions

Loading a Data Warehouse

- Data Profiling
- Data Extraction and Cleansing
- Dimension Table Loading
- Fact Table Loading
- SSAS Processing

Accessing Heterogeneous Data

- The Connection Managers
- Excel and Access
- Oracle
- Using XML and Web Services
- Flat Files
- Other Heterogeneous Sources



Scripting in SSIS

- Introduction to Scripting in SSIS
- The Script Component
- The Script Task

Error and Event Handling

- Package Transactions
- Using Precedence Constraints
- Event Handling
- Breakpoints
- Error Rows
- Logging

SSIS Administration

- Deployment Models
- Security
- Scheduling Packages
- Monitoring Package Executions
- High Availability and Disaster Recovery
- Scale Out