

Implementing and Maintaining Microsoft SQL Server 2005 Integration Services

Course Summary

Description

This course teaches students how to implement an Integration Services solution in their organizations. The course discusses how to develop, deploy, and manage Integration Services packages.

Objectives

At the end of this course, students will be able to:

- Describe SQL Server Integration Services and its tools.
- Create an Integration Services package.
- Implement control flow in an Integration Services package.
- Implement data flow in an Integration Services package.
- Implement logging in an Integration Services package.
- Debug and implement error handling in an Integration Services package.
- Implement checkpoints and transactions in an Integration Services package.
- Deploy an Integration Services package.
- Manage and secure an Integration Services package.

Topics

- Introduction to SQL Server 2005 Integration Services
- Developing Integration Services Solutions
- Implementing Control Flow
- Implementing Data Flow
- Implementing Logging
- De Implementing Checkpoints and Transactions
- Debugging and Error Handling
- Implementing Checkpoints and Transactions
- Deploying Packages
- Managing and Securing Packages

Audience

This course is intended for information technology (IT) professionals and developers who need to implement data transfer or extract, transform, and load (ETL) solutions by using Microsoft SQL Server 2005 Integration Services.

Prerequisites

Before attending this course, students must have:

- Exposure to enterprise data import and export scenarios
- Experience navigating the Microsoft Windows Server environment
- Experience with Microsoft SQL Server, including:
 - SQL Server Agent
 - SQL Server query language (SELECT, UPDATE, INSERT, and DELETE)
 - SQL Server System tables
 - SQL Server accounts (users and permissions)

Duration

Three days

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Course Outline

- I. Introduction to SQL Server 2005 Integration Services**
 - A. Overview of Integration Services Solutions
 - B. Integration Services Tools
- II. Developing Integration Services Solutions**
 - A. Creating an Integration Services Solution
 - B. Using Variables
 - C. Building and Running a Solution
- III. Implementing Control Flow**
 - A. Control Flow Tasks
 - B. Control Flow Precedence Constraints
 - C. Control Flow Containers
- IV. Implementing Data Flow**
 - A. Data Flow Sources and Destinations
 - B. Data Flow Transformations
 - C. Data Flow Paths
- V. Implementing Logging**
 - A. Overview of Integration Services Logging
 - B. Implementing Logging
- VI. Debugging and Error Handling**
 - A. Debugging a Package
 - B. Implementing Error Handling
- VII. Implementing Checkpoints and Transactions**
 - A. Implementing Checkpoints
 - B. Implementing Transactions
- VIII. Deploying Packages**
 - A. Package Configurations
 - B. Deploying Packages
- IX. Managing and Securing Packages**
 - A. Managing Packages
 - B. Securing Packages