

20463CC

Implementing a Data Warehouse with Microsoft SQL Server

5 DAYS

SATV : YES

Course Description

Data warehousing is a solution organizations use to centralize business data for reporting and analysis. This five-day instructor-led course focuses on teaching individuals how to create a data warehouse with SQL Server 2014, and implement ETL with SQL Server Integration Services.

Course Outline

Module 1: Designing and Implementing a Data Warehouse

- Logical Design for a Data Warehouse
- Physical design for a data warehouse

Module 2: Creating an ETL Solution with SSIS

- Introduction to ETL with SSIS
- Exploring Data Sources
- Implementing Data Flow

Module 3: Implementing Control Flow in an SSIS Package

- Introduction to Control Flow
- Creating Dynamic Packages
- Using Containers
- Managing Consistency

Module 4: Debugging and Troubleshooting SSIS Packages

- Debugging an SSIS Package
- Logging SSIS Package Events
- Handling Errors in an SSIS Package

Module 5: Implementing an Incremental ETL Process

- Introduction to Incremental ETL
- Extracting Modified Data
- Loading Modified data

Module 6: Using Master Data Services

- Master Data Services Concepts
- Implementing a Master Data Services Model
- Managing Master Data
- Creating a Master Data Hub

Module 7: Extending SQL Server Integration Services

- Using Scripts in SSIS
- Using Custom Components in SSISPerformance Monitor

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Module 8: Deploying and Configuring SSIS Packages

- Overview of SSIS Deployment
- Deploying SSIS Projects
- Planning SSIS Package Execution

Module 9: Enforcing Data Quality

- Introduction to Data Quality
- Using Data Quality Services to Cleanse Data
- Using Data Quality Services to Match data

Module 10: Introduction to Data Warehousing

- Overview of Data Warehousing
- Considerations for a Data Warehouse Solution

Module 11: Data Warehouse Hardware Considerations

- Considerations for building a Data Warehouse
- Data Warehouse Reference Architectures and Appliances

Module 12: Consuming Data in a Data Warehouse

- Introduction to Business Intelligence
- Introduction to Reporting
- An Introduction to Data Analysis