



IMPLEMENTING A DATA WAREHOUSE WITH MICROSOFT SQL SERVER 2012 – EXAM 70-463

This hands-on course describes how to implement a data warehouse platform to support a BI solution. Students will learn how to create a data warehouse with Microsoft SQL Server 2014, implement ETL with SQL Server Integration Services, and validate and cleanse data with SQL Server Data Quality Services and SQL Server Master Data Services.

Students will learn to describe data warehouse concepts and architecture considerations, select an appropriate hardware platform for a data warehouse, design and implement a data warehouse, implement Data Flow in an SSIS Package and much more.

This course is part three of three towards your MCSA: SQL Server 2012 credential.

COURSE OUTLINE:

Introduction to Data Warehousing

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

Planning Data Warehouse Infrastructure

- Considerations for Data Warehouse Infrastructure
- Planning Data Warehouse Hardware

Designing and Implementing a Data Warehouse

- Data Warehouse Design Overview
- Designing Dimension Tables
- Designing Fact Tables
- Physical Design for a Data Warehouse

Creating an ETL Solution with SSIS

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



Implementing Control Flow in an SSIS Package

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

Debugging and Troubleshooting SSIS Packages

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

Implementing a Data Extraction Solution

- Planning Data Extraction
- Extracting Modified Data

Loading Data into a Data Warehouse

- Planning Data Loads
- Using SSIS for Incremental Loads
- Using Transact-SQL Loading Techniques

Enforcing Data Quality

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

Master Data Services

- Introduction to Master Data Services
- Implementing a Master Data Services Model
- Managing Master Data
- Creating a Master Data Hub

Extending SQL Server Integration Services

- Using Scripts in SSIS
- Using Custom Components in SSIS

Deploying and Configuring SSIS Packages

- Overview of SSIS Deployment
- Deploying SSIS Projects



- Planning SSIS Package Execution

Consuming Data in a Data Warehouse

- Introduction to Business Intelligence
- Enterprise Business Intelligence
- Self-Service BI and Big Data