Implementing a Data Warehouse with Microsoft SQL Server

20463C

Delivery Type: Classroom
Duration: 5 days

Overview:

This 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.

Note: This course is designed for customers who are interested in learning SQL Server 2012 or SQL Server 2014. It covers the new features in SQL Server 2014, but also the important capabilities across the SQL Server data platform.

Audience Profile:

This course is intended for database professionals who need to create and support a data warehousing solution. Primary responsibilities include:

- ✓ Implementing a data warehouse.
- ✓ Developing SSIS packages for data extraction, transformation, and loading.
- ✓ Enforcing data integrity by using Master Data Services.
- ✓ Cleansing data by using Data Quality Services.

Course Completion:

After completing this course, students will be able to:

- ✓ Describe data warehouse concepts and architecture considerations.
- ✓ Select an appropriate hardware platform for a data warehouse.

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- ✓ Design and implement a data warehouse.
- ✓ Implement Data Flow in an SSIS Package.
- ✓ Implement Control Flow in an SSIS Package.
- ✓ Debug and Troubleshoot SSIS packages.
- ✓ Implement an ETL solution that supports incremental data extraction.
- ✓ Implement an ETL solution that supports incremental data loading.
- ✓ Implement data cleansing by using Microsoft Data Quality Services.
- ✓ Implement Master Data Services to enforce data integrity.
- ✓ Extend SSIS with custom scripts and components.

- ✓ Deploy and Configure SSIS packages.
- ✓ Describe how BI solutions can consume data from the data warehouse.

Prerequisites:
- ✓ At least 2 years' experience of working with relational databases, including:
- ✓ Designing a normalized database.
- ✓ Creating tables and relationships.
- ✓ Querying with Transact-SQL.
- ✓ Some exposure to basic programming constructs.
- ✓ An awareness of key business priorities such as revenue, profitability, and financial accounting is desirable.