MOC 50595 A Master Data Services with SQL 2008 R2

Course Summary

Description

Organizations need to work from reliable information. Ensure that the integrity of information and consistency of data is constant across different applications with help from Microsoft SQL Server 2008 R2 Master Data Services. Master Data Services is a new and powerful feature designed to help an organization create a structure and hierarchy for data, so that data collected and used across multiple departments, silos and databases is standardized and aligned. This ensures that different databases are interoperable.

Topics

- Master Data Management
- Microsoft Master Data Services Overview
- Understanding Data Models
- Importing Data
- Version Management
- Business Rules
- Master Data Services Security
- Publishing Data
- Master Data Services and Web Services

Audience

This course is intended for SQL Professionals, Business Intelligence Developers, Data Analysts and Data Stewarts and project managers that need to learn how to utilize Master Data Services.

Prerequisites

Before attending this course, students should have:
- A good idea of what direction their organization wants to go with Master data Services
- A working knowledge of Microsoft SQL

Duration

Three days

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Course Outline

I. Master Data Management
This module walks through an overview of the concepts involved in Master Data Management; the challenges involved and proposed solutions.
- A. What is Master Data Management?
- B. The Need for Master Data Management
- C. Data Quality
- D. Operational and Analytical Master Data Management
- E. Master Data Management Architectural Patterns
- F. Master Data Management Team

II. Microsoft Master Data Services Overview
In this module you will gain the knowledge that is key to working within MDS. A clear understanding of the terms such as Entity, Member and Attribute etc. and how they relate to each other will allow you to develop a MDS system.
- A. Master Data Services Architecture
- B. Master Data Services Key Terms
- C. MDS Staging Tables
- D. Creating New Members
- E. Creating New Collections
- F. Adding Members to Collections
- G. Updating Member Attributes
- H. Importing the Data
- I. Validating the Model
- J. Error Conditions

Lab: Importing Data
- View the Staging Tables
- Importing Data with SQL Server Integration Services
- Run the Staging Process
- Using a Stored Procedure to Initiate the Staging Process
- Viewing Errors

III. Understanding Data Models
The Model of the data is the key to success. In this module you will learn to design your data model then how to implement that design.
- A. Modeling Concepts
- B. Modeling Guidelines
- C. Building a Model
- D. Deploying a Model

- E. How to Step by Step

Lab: Understanding Data Models
- Develop a Model using MDS

IV. Importing Data
In this module we will review the considerations for loading data into the models. We will examine the staging tables and stored procedures that may be utilized for loading data.
- A. MDS Staging Tables
- B. Creating New Members
- C. Creating New Collections
- D. Adding Members to Collections
- E. Updating Member Attributes
- F. Importing the Data
- G. Validating the Model
- H. Error Conditions

Lab: Importing Data
- View the Staging Tables
- Importing Data with SQL Server Integration Services
- Run the Staging Process
- Using a Stored Procedure to Initiate the Staging Process
- Viewing Errors

V. Version Management
- A. Understanding Versions
- B. Version Statuses
- C. Version Validation
- D. Version Flags
- E. Ancestry
- F. Validating Versions
- G. Locking, Unlocking and Committing Versions

Lab: Version Management
- Create a Version
- Work with Version Flags
- Validate a Version
- View a Version Ancestry
- Lock, Unlock and Commit a Version

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Course Outline (cont'd)

VI. Business Rules
   A.   Business Rules Overview
   B.   How to Create A Business Rule
   C.   Business Rules Interface
   D.   Rule Expressions
   E.   Conditions and Actions
   F.   Using SharePoint Workflows

Lab: Business Rules
- Create several Business Rules
- Use Visual Studio to create a workflow called by the Business Rules

VII.   Master Data Services Security
   A.   Master Data Services Security Overview
   B.   Users and Groups
   C.   Administrators
   D.   Permission Levels
   E.   Best Practices

Lab: Master Data Services Security
- Implement Security
- Test Security

VIII.   Publishing Data
   A.   Subscribing Systems
   B.   Subscription Views
   C.   Formats
   D.   Creating Views
   E.   How Subscribing Systems can Extract Data

Lab: Publishing Data
- Create a Subscription View
- Subscribe to the View

IX. Master Data Services and Web Services
   A.   Using Web Services to Interface with Master Data Services
   B.   Creating the Web Service
   C.   Errors in the Web Service

Lab: PerformancePoint Services
- Create a Web Service Project in Visual Studio
- Perform Several Operations with the Web Service