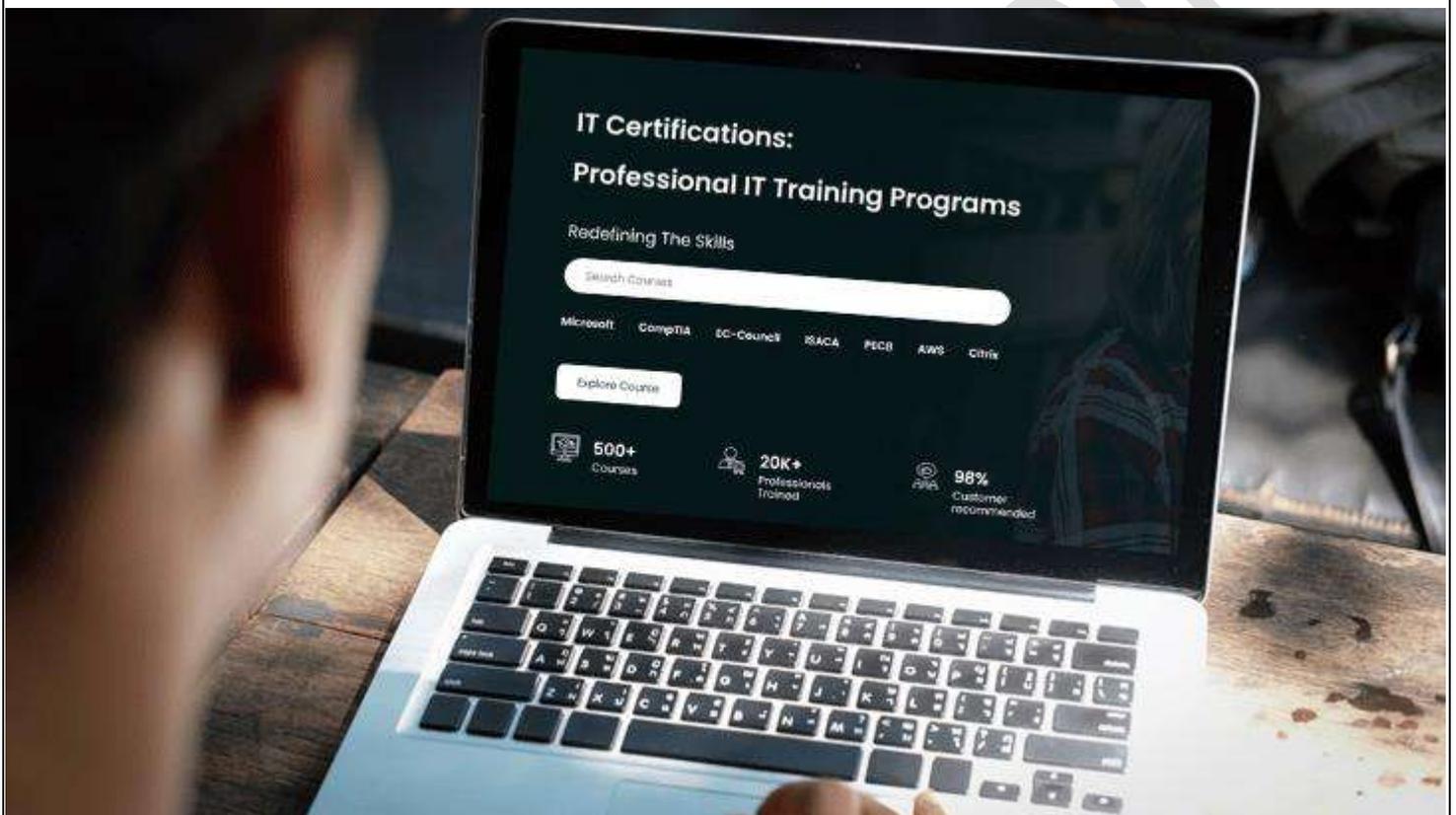# 55073: MASTER DATA SERVICES, DATA QUALITY SERVICES WITH SQL 2012 –2014 AND EXCEL TRAINING

Duration: 3 Days

Course Description

According to studies, data ages at a rate of 2% per month. All companies must rely on accurate information and make sure that data consistency and integrity are maintained across all applications.

Microsoft SQL Server 2012-2014 includes Master Data Services, a powerful tool designed to help an organization construct a framework and hierarchy for data so that information gathered and used across numerous departments, silos, and databases are uniform and coordinated.

This ensures that several databases may communicate with one another. Excel and Data Quality Services can be integrated to create a whole end-to-end system.

Training Exclusives

- Live instructor-led interactive sessions with Microsoft Certified Trainers (MCT).
- Access to Microsoft Official Courseware (MOC).
- Real-time Virtual Lab Environment.
- Experience 24*7 Learner Support.
- Self-paced learning and flexible schedules.

Who should attend this course?

- Project managers who need to understand how to use Master Data Services as well as SQL professionals, data analysts, business intelligence developers, and data stewards are the target audience for this course.

What you will learn

- Master Data Services configuration.
- Establish entities and models.
- Utilizing the web interface, add a member.
- Put an action back.
- Establish and set up attribute groups.
- Construct and set up derived hierarchies.
- Construct and set up collections.
- Using T-SQL, create a leaf member.
- View batch file errors.
- Versions can be made and configured.
- Navigate the interface for business rules.
- Make a corporate rule.
- Fill a value with data based on another value.
- Examine and address validity problems.
- Set up MDS security.
- Set up and customize a subscription view.
- Utilize Excel to filter data.
- Query saved to Excel.
- Excel data can be used to create an entity.
- Assemble a fresh knowledge foundation.
- DQS Quality Cleansing Project creation
- Add attributes, such as those that are domain-based.
- Excel can be used to establish a connection to an MDS database.

- Data can be published from Excel to an MDS database.
- Use flat files and SQL Server Integration Services to load leaf members.
- Utilize the web interface to remove a member, then check the outcomes in SSMS.
- Possess a fundamental knowledge of the ideas underlying master data management.

Prerequisites

- There are no prerequisites for this course.

Curriculum

Module 1: COURSE OVERVIEW

This module explains how the class will be structured and introduces course materials and additional administrative information.

Lessons

- Introduction
- Course Materials
- Facilities
- Prerequisites
- What We'll Be Discussing

Lab 1: COURSE OVERVIEW

After completing this module, students will be able to:

- Successfully log into their virtual machine.
- Have a full understanding of what the course intends to cover.

Module 2: MASTER DATA MANAGEMENT CONCEPTS

In this introductory module, we will introduce the need for Master Data Management and discuss a number of high-order concepts introducing the subject area.

Lessons

- What is Master Data Management?
- The Need for Master Data Management
- Data Quality
- Master Data vs. Transactional Data
- Master Data Management Team
- Master Data Management Architectures
- The MDM Extract-Transform-Load

Lab 1: MASTER DATA MANAGEMENT CONCEPTS

After completing this module, students will be able to:

- Have a basic understanding of the concepts behind master data management.

Module 3: MICROSOFT MASTER DATA SERVICES OVERVIEW

In this module we will examine a master data management project implementation and describe the concept of the different systems involved. We will then move into key objects within MDS that are critically important for understanding MDS.

Lessons

- Project Implementation
- Master Data Services Key Terms
- Master Data Services Web Interface
- Installing Master Data Services

Lab 1: MICROSOFT MASTER DATA SERVICES OVERVIEW

- Configuring Master Data Services

After completing this module, students will be able to:

- Configure Master Data Services.

Module 4: UNDERSTANDING DATA MODELS

We touched on the basics of the MDS object model already and covered core concepts such as entities, attributes, members and hierarchies. In this module we will expand on that and take an in-depth look at all the objects in the MDS model. In addition we will examine modeling concepts and deployment.

Lessons

- Modeling Process
- MDS Object - Model
- The Model Object

Lab 1: UNDERSTANDING DATA MODELS

- Create Model and Entities
- Adding Attributes Including Domain-Based Attributes
- Adding a Member Via the Web Interface
- Reversing a Transaction
- Attribute Groups
- Derived Hierarchies
- Collections

After completing this module, students will be able to:

- Create models and entities.
- Add attributes including domain-based attributes.
- Add a member via the web interface.
- Reverse a transaction.
- Create and configure attribute groups.
- Create and configure derived hierarchies.
- Create and configure collections.

Module 5: IMPORTING DATA

The objective of this module is to learn how to load data into MDS.

Lessons

- MDS Entity-Based Staging

Lab 1: IMPORTING DATA

- Create a Leaf Member with T-SQL
- Delete a Member with the Web Interface and Examine Results in SSMS
- Viewing Errors in Batch Files
- Loading Leaf Members with SQL Server Integration Services and Flat Files

After completing this module, students will be able to:

- Create a leaf member with T-SQL.
- Delete a member with the web interface and examine results in SSMS.
- View errors in batch files.
- Load leaf members with SQL Server Integration Services and flat files.

Module 6: VERSION MANAGEMENT

In this module we will learn how to work with versions. The ability to version MDS models enables functionality such as what if scenarios, testing and others.

Lessons

- Understanding Versions
- Web Interface
- Version Statuses
- Copying a Version
- Locking. Unlocking and Committing Versions
- Version Flags
- Ancestry
- Validating Versions

Lab 1: VERSION MANAGEMENT

- Versions

After completing this module, students will be able to:

- Create and configure versions.

Module 7: BUSINESS RULES

The goal of this module is to gain an understanding of the business rules interface and how to implement business rules into your model. It is important that you know the interface requires some getting used to and is perhaps not the friendliest interface that you have ever used. Pay particular attention to how often you need to save your business rules.

Lessons

- Business Rules Overview
- How to Create a Business Rule
- Conditions and Actions
- Publish a Business Rule
- Validation Issues

Lab 1: BUSINESS RULES

- Business Rules Interface
- Create a Business Rule
- Populate a Value Based on Another Value
- Validation Issues

After completing this module, students will be able to:

- Navigate the business rules interface.
- Create a business rule.
- Populate a value based on another value.
- Explore and fix validation issues.

Module 8: MDS SECURITY

The goal this module is to gain an understanding of the security in MDS. The security in some ways follows other security paradigms that you may be used to. Such as the concept of read, write, and deny permissions. However, the concepts such as granting permission to the model object for all groups of users so they can view the model may be foreign to you. Also make sure that you understand that MDS does not control security; that it is controlled by active directory. It is within active directory that the passwords and usernames are stored along with the user groups.

Lessons

- Master Data Services Security Overview
- Users and Groups
- Administrators
- Permission Levels
- Best Practices

Lab 1: MDS SECURITY

- Setting up Security in MDS

After completing this module, students will be able to:

- Set up security in MDS.

Module 9: PUBLISHING DATA

The objective of this module is that you understand the types of subscription views that are available.

Lessons

- Subscription Views
- Formats
- How Subscribing Systems Can Extract Data
- Creating Views

Lab 1: PUBLISHING DATA

- Creating a Subscription View

After completing this module, students will be able to:

- Create and configure a subscription view.

Module 10: EXCEL ADD-IN

The objective of this module is to help you understand the Excel Master Data Services Add-in, which is the best feature that was added with the SQL 2012 release.

Lessons

- Creating Connections
- Publishing Data
- Filtering Data
- Saving a Query
- Create an Entity From Data
- Settings

Lab 1: EXCEL ADD-IN

- Creating a Connection
- Publishing Data

- Filtering Data
- Saving a Query
- Create an Entity From Data

After completing this module, students will be able to:

- Create a connection to an MDS database using Excel.
- Publish data to an MDS database using Excel.
- Filter data using Excel.
- Save a query to Excel.
- Create an entity from data in Excel.

Module 11: DATA QUALITY SERVICES

The objective of this module is for you to understand Data Quality Services and how to use it in conjunction with Master Data Services.

Lessons

- Architecture
- Data Quality Cleansing
- Microsoft Data Quality Solution

Lab 1: DATA QUALITY SERVICES

- Create a New Knowledge Base
- DQS Quality Cleansing Project

After completing this module, students will be able to:

- Create a new knowledge base.
- Create a DQS Quality Cleansing Project.

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