# InfoSphere MDM Algorithms V11

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Course#:ZZ780G
Duration:3 Days
Price:3000.00
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## Course Description

Do you want to find match member records, link member records, and perfect a search algorithm for your InfoSphere MDM Virtual and Physical implementation? Then this course is designed for you.

The InfoSphere MDM Algorithms V11 course prepares you to work with and customize the algorithm configurations deployed to the InfoSphere MDM Probabilistic Matching Engine (PME) for a Virtual and Physical MDM implementations. The PME is the heart of all Matching, Linking, and Searching for entities (Person, Organization, etc) that exist in InfoSphere MDM.

This course has a heavy emphasis on the exercises, where you will implement the customization discussed in the course to perform matching, linking, and searching on fields not provided by the default implementation.

At the end of this course it is expected you will feel comfortable customizing an algorithm for the PME for a Virtual and Physical MDM implementations.

## Objectives

 Understand how Matching and Linking work for both the Virtual Implementations of InfoSphere MDM
 Learn how Duplicate Suspect Processing and Search (using PME) work for Physical Implementations of InfoSphere MDM
 Know and understand the MDM configuration project and database tables used by the PME
 Understand the PME Algorithms (Standardization, Bucketing and Comparison steps) and how to create and customize the algorithms using the workbench
 Learn how to analyze the Bucketing steps in an algorithm
 Understand how to generate weights for a given algorithm and how those weights are generated based on a sample database set.

Understand how to analyze the weights that are generated using the workbench

Learn how to deploy the PME configuration for the Virtual implementations of InfoSphere MDM.

Understand how to deploy the PME configuration for a Physical implementation of InfoSphere MDM.

Understand the integration between the Physical module and the PME

## Audience

This advanced course is for Business and Technical Specialist working with the Matching, Linking, and Search services of InfoSphere MDM.

## Prerequisites

You should have completed:

(1Z801)

orexperience with InfoSphere MDM

## Content

Content

PME and Virtual Overview

Virtual MDM Overview
Terminology (Source, Entity, Member, Attributes)
PME and Virtual MDM ( Algorithms, Weights, Comparison Scores, Thresholds)
Virtual MDM Linkages and Tasks

Virtual MDM Algorithms

Standardization
Bucketing
Comparison Functions

Exercise: Creating a new Algorithm

Virtual PME Data Model

Algorithm configuration tables
Member Derived Data
Bucketing Data
Exercise: Loading Members and viewing Algorithm and Derived data

Bucket Analysis

Analysis Overview
Attribute Completeness
Bucket Analysis
Exercise: Analyzing our Buckets

Weights

Weights Overview (Frequency-based weights, Edit Distance weights and Parameterize weights)
The weight formula
Running weight generation
Analyzing weights
Exercise: Generate Weights and analyzing weight distribution

Threshold

Bulk Cross Match process
Pair Manager
Threshold calculations
Entity Analytics

Exercise: Threshold Calculations

Exercise: Pair Manager

Exercise: Testing our algorithm


PME and Physical Overview


Physical MDM Overview

Terminology (Entity, Critical Data, Business Object)

PME and Physical MDM ( Algorithms, Weights, Comparison Scores, Thresholds)

Physical MDM Suspect Duplicate Processing

Physical MDM Probabilistic Search

Exercise: Testing the default Physical PME algorithm


Physical PME Data Model and Mapping


Default Physical BObjs and mapping to PME

Virtual Party Template

Default Party Configuration project

Exercise: Loading default Physical PME Configuration project


Physical MDM Algorithms


Standardization

Bucketing

Comparison Functions

Exercise: Explore and customize the default Physical Algorithm

Exercise: Analyzing our Buckets

Exercise: Generate Weights

Exercise: Deploying the Physical MDM PME Configuration


Physical MDM PME Adapters and Converters

MDM PME Adapter overview

MDM Outbound and Inbound Converters

Exercise: Creating a custom converter


Agenda:

Day 1


Unit 1: PME and Virtual Overview

Unit 2: Virtual MDM Algorithms

Unit 3: Virtual PME Data Model


Day 2


Unit 4: Bucket Analysis

Unit 5: Weights

Unit 6: Threshold


Day 3


Unit 7: PME and Physical Overview

Unit 8: Physical PME Data Model and Mapping

Unit 9: Physical MDM Algorithms

Unit 10: Physical MDM PME Adapters and Converters