OSM Foundations II: Order Decomposition and Orchestration

Duration: 5 Days

What you will learn

This OSM Foundations II: Order Decomposition and Orchestration training covers Orchestration Orders and Processes. Expert Oracle University instructors will help you deep dive into order orchestration; they'll also review sales order to OSM order, order item specification and more.

Learn To:

- Add control data.
- Define product classes.
- Define orchestration entities and analyze orders.
- Define first-level decomposition.
- Understand fulfillment patterns.
- Put decomposition and orchestration together.
- Select order items.
- Calculate order start time.
- Create order item specifications.

Benefits to You

By enrolling in this course, you will get the chance to conduct hands on practices that will help you in your daily job. You will also develop the skills to configure granularities, while learning how to enhance the cartridge, select order items, calculate order start time and fulfillment state management.

Live Virtual Class Format

A Live Virtual Class (LVC) is exclusively for registered students; unregistered individuals may not view an LVC at any time. Registered students must view the class from the country listed in the registration form. Unauthorized recording, copying, or transmission of LVC content may not be made.

Audience

Administrator
Application Developers
Database Administrators
Developer
J2EE Developer
Java Developer
Support Engineer
Technical Consultant
Related Training

Required Prerequisites
Knowledge of XML
Knowledge of XQuery
OSM Foundations I: Tasks, Processes and Orders

Course Objectives
Describe Order and Service Management Overview
Describe Rapid Offer Design and Order Delivery (RODOD) Overview
Describe Order Orchestration Overview
Work with OSM System
Use Orchestration Orders and Processes
Define First-Level Decomposition and Adding Control Data
List Order Item Specifications
Create Order Item Specifications
Describe Fulfillment Patterns
Define Product Classes and Data Providers
Model System Topology
Configure Granularities
Calculate Order Start Time
Enhance the Cartridges
Describe Orchestration Dependencies
Manage Fulfillment State

Course Topics

Order Orchestration: Overview
An Order Orchestration Scenario: First Time Purchase Order
Granularity
First Time Purchase Order
OSM Orchestration Components
OSM Order Orchestration Flow

From Sales Order To OSM Order
Central Order Management Order
Inbound Message
Order Line Structure Configuration
Order Line Relationships
Order Recognition
Orchestration Flow and Modeling Entities
Recognition Rule Creation

Orchestration Order and Process
Process-Based Order
Orchestration Order
The Orchestration Plan Generation Step
Orchestration Plan
Orchestration Plan Generation
Orchestration Flow, Process Orchestration Sequence
Order Item Selector

Order Item Specification
Orchestration Flow
Order Item Specification and Order Item Properties
Order Item Property XQuery Expression
Order Item Specification Order Template
Structured Order Item Properties
Order Item Hierarchies
Orchestration Flow and Modeling Entities
Creating Order Item Specifications

Fulfillment Pattern
Orchestration Flow
Product Specification for Multiple Products
Defining and Calculating Fulfillment Mode
Defining Function Order Components for a Product Specification
Decomposing Order Items for Function Order Components
Defining the First Level Decomposition and Fulfillment Patterns

Creating a Product Class
Defining an Order Item Property for Product Class
Mapping to Product Specification
Generating a Mapping to Product Specification
Product Class Mapping: Data Instance
Importing Product Classes
Defining Product Classes and Data Provider
Creating a Product Class
Defining an Order Item Property for Product Class

Putting Decomposition and Orchestration Together
Orchestration Flow
Orchestration Stage
System Topology
Defining an Orchestration Stage for Target Systems
Add an Orchestration Stage to the Orchestration Sequence
Defining a Decomposition Rule
XQuery Context for Decomposition Condition
System Interactions for Two Provisioning Systems
Supporting Different System Topologies
Adding a Mobile Fulfillment System

Granularity Decomposition
Granularity Decomposition Scenarios
Modeling Granularity
Add an Orchestration Stage to the Sequence
Calculating Granularity
Granularity Components
Configuring Bundle Granularity
Calculating the Order Component ID
Using the Ancestors Function

Orchestration Dependencies
Order Item Dependency  Wait Condition Dependency
Order Component Execution
Orchestration Dependency Wait Delay
Property Correlation Dependency
Inferred Dependencies Between Order Components
Enhancing the Cartridge to Support Triple-Play

Selecting Order Items
Associated Order Items Scenario
Associating Order Items Through Matching Order Component ID
Associating Order Items Through Property Correlation
Selecting Order Items

Calculating Order Start Time
Order Component Minimum Processing Duration
Defining Product Specification Order Component Processing Duration
Using Calculated Start Dates ration
Future Dated Order
Orchestration Plan with Order Component Start Dates
ExpectedStartDate with a Date Expression Earlier Than the Calculated Start Date
ExpectedStartDate with a Date Expression and the Calculated Start Date is Not Used
ExpectedStartDate with no Date Expression or Calculated Start Date

Fulfillment State Management
Fulfillment States in Central Order Management (COM)
Fulfillment State in Service Order Management (SOM)
Master Order Template
Adding Task Data to Generic Tasks
Composite Cartridge View: Details Tab
Defining Task Data Contribution
Solution View in the Task Editor
Cartridge Extensibility Scenarios
Creating a Component Cartridge

Solution Design Considerations
Requirements Analysis
Solution Development
Sample Project Layout 1
Projects and Cartridges Entity Scope
Versioning with XML Catalog
Cross-Order Communication Order life cycle Management
Using XML Catalog

Project Planning and Order Orchestration Summary
Project Planning
Project Estimation
Constructing the Project Plan The Planning Guide 24-7
Design Time Orchestration Entities
Run time Orchestration Flow with Entities

Rapid Offer Design and Order Delivery (RODOD) Overview
Rapid Offer Design and Order Delivery
Oracle Communications RODOD
Order Management: Function Decomposition
Order Management: Process Decomposition
RODOD Solution Footprint
Offer Design and Order Delivery
Introduction to Design Pattern Value Proposition