

Test Data Management for Developers

Course Summary

Description

This three-day TDM training is applicable for version 10.2. Learn to discover and mask sensitive data on non-production environments and gain the skills required to define data domains to discover sensitive data based on data and metadata patterns. Use the out-of-the box masking techniques to mask data while retaining the original characteristics and define custom masking rules to handle complex data masking requirements.

Topics

- Introduction to Test Data Management
- Data Discovery
- Data Subset
- Data Masking
- Test Data Generation
- Test Data Warehouse
- Dynamic Data Masking

Audience

This course is designed for developers.

Prerequisites

There are no prerequisites for this course.

Duration

Three days

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Course Outline

I. Introduction to Test Data Management

- A. Sensitive Data
- B. Government regulations
- C. Persistent data masking use cases
- D. Dynamic Data Masking use cases
- E. TDM Data masking and terminology
- F. Architecture and deployment
- G. TDM user interface
- H. TDM Project and permissions
 - Lab: Create connections
 - Lab: Import data sources to a project

- Lab: Key masking
- Lab: Nullification and shuffle masking
- Lab: Random and Key masking
- Lab: Encryption masking
- Lab: Expression masking
- Lab: SSN masking
- Lab: Substitution masking
- Lab: Conditional substitution masking
- Lab: Email masking
- Lab: Advanced masking

II. Data Discovery

- A. Data discovery overview
- B. Profiling types
- C. Discover constraints
- D. Discover entities
- E. Discover data domains
- F. Table classification
 - Lab: Discover constraints
 - Lab: Discover entities
 - Lab: Discover sensitive data
 - Lab: Discover data domains and profile

V. Test Data Generation

- A. Describe data generation use cases
- B. Define data generation rules
- C. Generate synthetic data
 - Lab: Generate test data

III. Data Subset

- A. Define entities
- B. Configure major and minor relationships
- C. Create functional data subsets
 - Lab: Create subset with minor relationships
 - Lab: Create subset with major relationships
 - Lab: Create a subset with major and minor relationships

VI. Test Data Warehouse

- A. Describe Test data warehouse
- B. Define test data warehouse components
- C. Define datasets
- D. Restore datasets
 - Lab: Define dataset
 - Lab: Restore dataset

IV. Data Masking

- A. Data Masking process and components
- B. Data domains and profiling
- C. Data masking rules
- D. Table classification and cascade masked values
- E. Override masking parameters
- F. Configure out of the box masking rules
 - Lab: Credit card masking

VII. Dynamic Data Masking

- A. Dynamic Data Masking Terminology and Architecture and Components
- C. Dynamic Data Masking Integration options and use cases
- D. Protect a relational system
- E. Connection rules
- F. Match rule sets
 - Lab: Getting started with DDM
 - Lab: Deny database access within a time
 - Lab: Protect CUSTOMER and CUSTOMER_SERVICE tables
 - Lab: Disable, export and delete rules
 - Lab: Replace an incoming SQL Query
 - Lab: Edit an incoming SQL Query