AMBIENT-IT

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Updated 07/27/2023

Sign up

Big Data training: Managing data repositories

2 days (14 hours)

Presentation

Reference data (also known as master data) enables you to unify your different databases using a unique identifier.

The main advantages of using data repositories are data unification (to avoid duplication), improved data quality and, as a result, better decision-making.

Master data management systems bring many benefits, such as improved data quality and lower management costs. In fact, these tools make it possible to automate certain manual tasks, thereby boosting productivity.

Our Master Data Management course will teach you how to build a robust architecture to integrate your master data. At the end of this course, you'll know how to use and implement a Master Data Management (MDM) project.

Objectives

- Understand the concept of reference data and identify the issues involved
- Understand the impact of new data architectures and Big Data on Master Data
- Know the main tools, solutions, best practices and methods for managing data repositories
- How to implement a data governance method
- Detailed knowledge of Master Data Management players

Target audience

- Data analysts

- Data quality analysts
- Consultants
- IT Architects
- Project managers
- IS Manager
- Data governors
- Data scientists
- Data engineers
- Data miners

Prerequisites

General knowledge of IS architecture

Reference data management training program

Introduction

- Overview of different types of data (referential, operational and metadata)
- Reference data typologies
- Why is managing reference data so important?
- Main fields of application
- The impact of new data architectures
- The various management problems encountered
- The benefits of successful master data management

Building the right architecture

- The various components of your master data architecture
- Best practices for creating architecture
- Hierarchy management
- Information system model with MDM
- Prerequisites for implementing an MDM solution
- MDM solution module overview
- Modeling referential data

Managing reference data

- Involving your human resources in your data architecture
- Collect and analyze master data metadata
- Generate and test your tools
- Modifying production and consumption systems
- Follow a maintenance process

Reference data governance

- What is data governance, and what does it involve?
- The benefits of good data governance
- Data lifecycle overview
- Ensuring the quality of reference data
- Implement an agile data governance policy

Protect your data

- The various risks
- Layered Security Framework
- Identity management
- Protecting against network vulnerabilities
- Guaranteeing data confidentiality

The main tools

- Market overview and trends
- Choosing the right tool for your organization's needs
- Technology requirements
  - MDM hub
    - Attaccama One
    - IBM InfoSphere Master Data Management
    - Informatica Multidomain MDM
  - Middleware
    - Hevo data
    - Dell Boomi
    - Talend
    - Informatica PowerCenter
  - Quality assurance assessment tools
    - Informatica Data Quality (IDQ)
    - SAP Data Services
    - Talend Open Studio for Data Quality
    - Ataccama ONE

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical inputs from the trainer supported by examples and

brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire is used to check that skills have been correctly acquired.

Sanction

A certificate will be issued to each trainee who completes the course.