Course : Semarchy xDI Data Integration

The high-performance Extract Transform Load
Practical course - 3d - 21h00 - Ref. SXD
Price : 1990 € E.T.

NEW

Semarchy xDI is a tool for accelerated data integration. The aim of this training course is to enable you to set up ELT-type data flows, whether to feed a datawarehouse or to process big data. You'll learn how to collect, manage data quality, store and offer web-based data access services with complete agility.

Teaching objectives

At the end of the training, the participant will be able to:

- Be able to build ELT/ETL flows with Semarchy's data integration tool
- Understand how Semarchy xDI is organized and set up in its environment
- Getting to grips with Semarchy's graphical interface under Eclipse
- Manage different data access connectors
- Exploiting data flow projects

Intended audience
Anyone in the IT department in charge of processing business intelligence or big data.

Prerequisites
Knowledge of SQL language or database data manipulation.

Practical details
Teaching methods
Active

Course schedule

1 Installation and architecture of the Semarchy xDI Data Integration solution

- Semarchy xDI organization
- Semarchy xDI and cloud computing
- How to deploy and install Semarchy Data Integration
- Advanced settings

2 Semarchy's graphical integration with Eclipse: how to get your bearings?

- Where do we stand in terms of job referencing and development?
- Workspace
- Organization of data processing projects and files within the repository
- Management of development versions and backtracking on history
- Eclipse (Java) and Semarchy xDI views

3 Management of connectors to various data sources (RDBMS, NoSQL, CSV, XML)

- Database connection and reverse (cloud on premise)
- Connecting and organizing flat-file data
- Connecting and obtaining the XML file schema

Hands-on work
Identify the various data sources and apply the appropriate connections.

4 Development of data flow projects in Semarchy xDI

- Development of data mappings from A to Z: sources, filters, joins, staging, reject management...
- Process development: links, files, variables and session variables
- Testing and execution

Hands-on work
Execute a project with full mapping and in-depth process.

5 Creation of XML-generating data flows and implementation of web services

- XML file generation with Semarchy xDI
- Interrogation of web services (HTTP Rest, SOAP)
- Creation of a middleware-type web services exhibition system

Hands-on work
Create a data flow with XML and create a web service.

6 Advanced development

- Templates
- Technologies and the associated XPath language
- Advanced processes

Hands-on work
Apply advanced workflows to a project.

7 **Implementation of Semarchy xDI jobs and web services from the web**

interface (and Stambia analytics)

- The administration panel
- Session Reports
- Packages
- Log
- Deliveries
- Running data replications
- Scheduling, automating processing

Hands-on work
Configure a project from A to Z and put it into operation.