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Sign up

ER/Studio Governance training

2 days (14 hours)

Presentation

Master the governance and collaborative aspects of ER/Studio with this comprehensive, practical and structured training course. Designed for data architects, data stewards and IT managers, it will enable you to model, document and manage your data rigorously, with a view to compliance, quality and business sharing.

You'll start by getting to grips with ER/Studio Data Architect to design conceptual, logical and physical models, synchronize them with your existing databases, and automate SQL generation in a structured approach.

You'll learn how to enrich your models with a business glossary, classify sensitive data, and integrate documentation into a shared governance approach that complies with regulatory requirements such as the RGPD.

The course will then introduce you to Team Server, enabling you to publish your models, collaborate with business users, manage roles and permissions, track versions and analyze the impact of modifications on all data assets.

Like all our training courses, this one is based on the latest stable version of ER/Studio.

Objectives

- Understand the overall architecture of ER/Studio, its key components (Data Architect, Team Server, Business Glossary) and their role in a data governance approach.
- Know how to model, document and synchronize complex data structures with a view to quality, traceability and compliance
- Master the creation and management of a business glossary, the classification of sensitive data and the documentary enrichment of model objects
- Be able to collaborate via Team Server, publish models, manage roles and versions, and manage repository evolution in multi-actor mode

- Apply best practices in modeling, metadata management, integration, security and automation to structure sustainable, scalable governance.

Target audience

- data project managers
- data architects

Prerequisites

- Basic knowledge of data modeling

ER/Studio Governance training program

Introduction to ER/Studio and data governance

- Overview of the ER/Studio suite
- Key components: Data Architect, Team Server, Business Glossary
- Typical use cases (modeling, collaboration, governance)
- Definition and challenges of data governance
- Roles and responsibilities (Data Steward, Data Owner, etc.)
- Integration with RGPD policies and compliance
- Software architecture (client/server, web access)
- Database connections
- Security mechanisms and access rights

Data modeling with ER/Studio Data Architect

- Creating a conceptual/logical model
- Entities, attributes, relationships, cardinalities
- Standardization and business constraints
- Logical to physical conversion
- Mapping between data types
- DDL script generation for target databases
- Reverse engineering of existing databases
- Bidirectional logical/physical synchronization
- Model comparison and merge

Business documentation and glossary

- Creation of business terms

- Concept hierarchy and definitions
- Link between glossary and model objects
- Application of tags and categories
- Data sensitivity (PII, confidential, etc.)
- Alignment with security policies
- Use of notes, descriptions, validation rules
- Link between objects (entities ? business terms)
- Automatic generation of HTML/PDF documentation

Collaboration and governance with Team Server

- Web access to metadata repository
- Model publication and navigation
- User interface for non-technical users
- Validation/modification workflow
- Version management and history
- Change notification and approval
- Account creation and permissions management
- Roles: viewer, contributor, admin, stewar
- Centralized access governance

Integration and interoperability

- Supported databases (Oracle, SQL Server, PostgreSQL...)
- Reverse engineering and introspection
- ODBC/JDBC connections
- Connectors to Collibra, Alation, Informatica
- Metadata export (XML, XMI, CSV)
- REST/GraphQL API for automation
- Use of macros and scripts
- Automatic publication in Team Server
- Integration into CI/CD pipelines

Data monitoring, quality and conformity

- Model consistency checks
- Naming standards and business rules
- Implementation of validated repositories
- Traceability of personal data
- RGPD mapping and impact analysis
- Automated audit reports
- Visualization of data lineage
- Change impact assessment
- Detection of inter-table or system dependencies

Case studies and workshops

- Creation of a complete logical model from specifications
- Generation of the associated physical model

- Structuring business terms by domain
- Linking terms to model objects
- Publishing a model in Team Server
- Navigation via web interface, annotation, collaboration

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.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with 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.

Certification

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