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Sign up

Pentaho Dashboards Advanced training
2 days (14 hours)

Presentation

Master the design of advanced, interactive dashboards with Pentaho Dashboards Advanced. This comprehensive, operational training course will enable you to make full use of the Analyzer, Community Dashboard Editor (CDE), Community Data Access (CDA) and Community Chart Components (CCC) tools, and to integrate reports designed with Pentaho Report Designer into interactive dashboards.

First, you'll learn about the Pentaho environment, the architecture of its BI platform, and the strategic role of dashboards in Business Intelligence.

You will then learn how to manipulate Pentaho Analyzer to create ad hoc analyses, build interactive pivot tables, and refine your explorations through advanced filters and business calculations.

The course will guide you in the use of the Community Dashboard Editor (CDE) to structure, create and parameterize complete dashboards, enriched by dynamic visualizations connected to your data sources via CDA.

You'll explore advanced visualizations with CCC, integrating interactive graphs and clear, relevant KPI indicators.

Finally, you'll learn how to publish, share and integrate your dashboards into the corporate environment, while respecting good development, optimization and maintenance practices, and ensuring effective management of user access.

Objectives

- Understand the architecture and strategic role of Pentaho dashboards in a business intelligence context.
- Master the creation and management of interactive dashboards with Pentaho Analyzer and CDE

- Efficiently integrate various data sources via CDA and produce advanced visualizations with CCC
- Apply best practices for designing, optimizing, deploying and securing dashboards
- Design professional dashboards adapted to business needs

Target audience

- Data Analyst
- BI Manager
- BI project manager

Prerequisites

- Basic knowledge of data manipulation and analysis
- Familiarity with SQL queries

Pentaho Dashboards Advanced training program

Introduction to Pentaho Dashboards Advanced

- Global architecture: Pentaho Server, Pentaho User Console (PUC)
- The place of dashboards in the business intelligence chain
- Presentation of Analyzer, CDE, CDA, CCC, PRD tools
- Content management and user access
- Dashboard project organization in Pentaho

Data analysis with Pentaho Analyzer

- Introducing Pentaho Analyzer (multidimensional analysis)
- Creating pivot tables
- Applying filters and drill-downs
- Add calculated measures and conditional formatting
- Export and share analyses
- Hands-on workshop: Interactive exploration of business data with Analyzer

Creating dashboards with Community Dashboard Editor (CDE)

- Introduction to CDE: advanced tools vs. Dashboard Designer
- Structuring and responsive layout of dashboards
- Insert and configure components (text, images, buttons)
- Creation of dynamic user filters

- Simple data visualization with CDA
- Practical workshop: Designing a simple interactive dashboard

Data management with Community Data Access (CDA)

- CDA principles: centralizing data sources
- Configuring connections to databases and files
- Creating and managing parameterized SQL and MDX queries
- Linking CDE components with CDA queries
- Query cache optimization and management

Advanced visualization with Community Chart Components (CCC)

- Presentation of advanced charts (curves, histograms, pie charts)
- Customize charts (colors, scales, legends)
- Add advanced interactivity (click, hover, drill-down)
- KPI components and detailed tables
- Data visualization best practices

Publishing, integrating and optimizing dashboards

- Integrating Pentaho Report Designer reports into dashboards
- Navigation and dynamic links between dashboards and reports
- Advanced customization via HTML/CSS/JavaScript
- Deployment and user access management
- Best practices for performance and maintainability
- Hands-on workshop: complete production of an advanced dashboard, integration of reports and final deployment

Companies concerned

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

Positioning at training start

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 training to come, 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 verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.