

# PENTAHO - QUICK GUIDE

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## PENTAHO - OVERVIEW

### What is Pentaho Reporting?

Pentaho Reporting is a suite *collection of tools* for creating relational and analytical reporting. Using Pentaho, we can transform complex data into meaningful reports and draw information out of them. Pentaho supports creating reports in various formats such as HTML, Excel, PDF, Text, CSV, and xml.

Pentaho can accept data from different data sources including SQL databases, OLAP data sources, and even the Pentaho Data Integration ETL tool.

### Features of Pentaho

Pentaho Reporting primarily includes a Reporting Engine, a Report Designer, a Business Intelligence BI Server. It comes loaded with the following features –

- **Report Designer** – Used for creating pixel perfect report.
- **Metadata Editor** – Allows to add user-friendly metadata domain to a data source.
- **Report Designer and Design Studio** – Used for fine-tuning of reports and ad-hoc reporting.
- **Pentaho user console web interface** – Used for easily managing reports and analyzing views.
- **Ad-Hoc reporting interface** – Offers a step-by-step wizard for designing simple reports. Output formats include PDF, RTF, HTML, and XLS.
- **A complex scheduling sub-system** – Allows users to execute reports at given intervals.
- **Mailing** – Users can email a published report to other users.
- **Connectivity** – Connectivity between the reporting tools and the BI server, which allows to publish the content directly to the BI server.

## PENTAHO - INSTALLATION

Let us now learn how to install and configure Pentaho Reporting Designer.

### Prerequisites

The Pentaho Reporting engine requires java environment. Therefore, before installing Pentaho Reporting, make sure you have java on your system. Based on the platform you are working on, use a command from the following table to verify your java installation.

OS	Command	Output
Windows	Open command prompt:	java version "1.7.0_60"
	\>java -version	java™ SE Runtime Environment <i>build</i> 1.7.0_0b19 Java HotSpot™ 64-Bit Server VM <i>build</i> 24.60 – b09, <i>mixed mode</i>
	Open terminal:	java version "1.7.0_60"

# Pentaho Design Studio User Guide

**Peipei Pang**



## **Pentaho Design Studio User Guide:**

Pentaho 5.0 Reporting by Example: Beginner's Guide Mariano, GARCIA MATTIO,Dario R. Bernabeu,2013-08-21 Key Features Install and configure PRD in Linux and Windows Create complex reports using relational data sources Produce reports with groups aggregate functions parameters graphics and sparklines Install and configure Pentaho BI Server to execute PRD reports Create and publish your own Java web application with parameterized reports and an interactive user interface Book Description Open source reporting tools and techniques such as PRD have been comparable in quality to their commercial counterparts this is largely due to the market's marked tendency to choose open source solutions PRD is a very powerful tool and in order to take full advantage of it you need to pay attention to the important details Pentaho 5.0 Reporting by Example Beginner's Guide clearly explains the the foundation and then puts those concepts into practice through step by step visual guides Feeling confident with your newly discovered desirable skill you will have the power to create your very own professional reports including graphics formulas sub reports and many other forms of data reporting Pentaho 5.0 Reporting By Example Beginner's Guide is a step by step guide to create high quality professional reports Starting with the basics we will explore each feature to ensure a thorough understanding to peel back the curtain and take full advantage of the power that Pentaho puts at our fingertips This book gives you the necessary resources to create a great variety of reports You will be able to make reports that contain sub reports include graphics sparklines and so on You will also be able to parameterize your reports so that the final user can decide what information to visualize You will be able to create your own stoplight type indicators and drill down in your reports and execute your reports from your own web application Pentaho 5.0 Reporting By Example Beginner's Guide lets you learn everything necessary to work seriously with one of the world's most popular open source reporting tools This book will guide you chapter by chapter through examples graphics and theoretical explanations so that you feel comfortable interacting with Pentaho Report Designer and creating your own reports What you will learn Download configure and install Pentaho Report Designer Create your own data sources or insertable objects that can use them Produce reports with different hierarchical levels and create aggregate functions to calculate totals and sub totals Use parameters in your reports to enable the user to interact directly with your report Generate your own sub reports and add graphics and sparklines Create reports with the capacity to drill down Publish and execute your reports on the Pentaho BI Server Produce reports that use session variables such as user role to vary their content Develop your own Java web application to execute your reports Who this book is for Pentaho 5.0 By Example Beginner's Guide is the ideal companion for a wide variety of developers Whether you are new to the world of Business Intelligence reporting or an experienced BI analyst this book will guide you through the creation of your first reports in Pentaho We assume some knowledge of the SQL language and database systems **OSworkflow** Diego Lazo,Diego Adrian Naya Lazo,2007-08-30 This book covers all aspects of OSWorkflow for Java developers and system architects from basics of

Business Process Management and installing OSWorkflow to developing complex Java applications and integrating this open source Java workflow engine with the third party components Drools for business rules Quartz for task scheduling and Pentaho for dashboards Authored by an active developer of the OSWorkflow project it gives step by step instructions explaining the basics and clarifying and reinforcing principles with real life examples OSWorkflow is a pure Java open source workflow engine for technical users who can focus on the business logic and rules without Petri Net or finite state machine coding and easily integrate OSWorkflow into applications to create simple or complex workflows as needed Because OSWorkflow provides a relatively low level but highly flexible workflow implementation for Java developers it is not a quick plug and play solution for non technical users

**ICT Innovations 2010** Marjan Gusev, Pece Mitrevski, 2011-02-24 This book constitutes the refereed proceedings of the Second International Conference ICT Innovations 2010 held in Ohrid Macedonia in September 2010 The 33 revised papers presented together with 5 invited papers were carefully reviewed and selected The papers address the following topics internet applications and services artificial intelligence bioinformatics internet mobile and wireless technologies multimedia information systems computer networks computer security e business cryptography high performance computing social networks e government as well as GPU computing

**Pentaho 3.2 Data Integration** María Carina Roldán, 2010-04-09 Pentaho Data Integration a.k.a. Kettle is a full featured open source ETL Extract Transform and Load solution Although PDI is a feature rich tool effectively capturing manipulating cleansing transferring and loading data can get complicated This book is full of practical examples that will help you to take advantage of Pentaho Data Integration's graphical drag and drop design environment You will quickly get started with Pentaho Data Integration by following the step by step guidance in this book The useful tips in this book will encourage you to exploit powerful features of Pentaho Data Integration and perform ETL operations with ease Resource description p

[Data Warehouse Systems](#) Alejandro Vaisman, Esteban Zimányi, 2014-09-10 With this textbook Vaisman and Zimányi deliver excellent coverage of data warehousing and business intelligence technologies ranging from the most basic principles to recent findings and applications To this end their work is structured into three parts Part I describes Fundamental Concepts including multi dimensional models conceptual and logical data warehouse design and MDX and SQL OLAP Subsequently Part II details Implementation and Deployment which includes physical data warehouse design data extraction transformation and loading ETL and data analytics Lastly Part III covers Advanced Topics such as spatial data warehouses trajectory data warehouses semantic technologies in data warehouses and novel technologies like Map Reduce column store databases and in memory databases As a key characteristic of the book most of the topics are presented and illustrated using application tools Specifically a case study based on the well known Northwind database illustrates how the concepts presented in the book can be implemented using Microsoft Analysis Services and Pentaho Business Analytics All chapters are summarized using review questions and exercises to support comprehensive student learning Supplemental material to assist

instructors using this book as a course text is available at <http://cs.ulb.ac.be/DWSDIbook> including electronic versions of the figures solutions to all exercises and a set of slides accompanying each chapter Overall students practitioners and researchers alike will find this book the most comprehensive reference work on data warehouses with key topics described in a clear and educational style *Business Engineering and Service Design, Second Edition, Volume I* Oscar Barros, 2016-10-14 This book provides the foundations of BE reviews the disciplines integrated within its methodology and presents plentiful evidence of its power by giving detailed application cases including impressive results in private and public situations **Service Design with Applications to Health Care Institutions** Oscar Barros, 2016-12-02 This book is a sequel to *Business Engineering and Service Design* published by this editorial which provides the foundations of Business Engineering it is dedicated to health care presenting our view of the foundations for the design of institutions that provide such service general architectures for making designs operative and many real cases that show how to do formal design and the benefits to be obtained *Intelligent Systems Design and Applications* Ajith Abraham, Sabri Pillana, Gabriella Casalino, Kun Ma, Anu Bajaj, 2023-05-31 This book highlights recent research on intelligent systems and nature inspired computing It presents 223 selected papers from the 22nd International Conference on Intelligent Systems Design and Applications ISDA 2022 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 65 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering *Business Intelligence Tools for Small Companies* Albert Nogués, Juan Valladares, 2017-05-25 Learn how to transition from Excel based business intelligence BI analysis to enterprise stacks of open source BI tools Select and implement the best free and freemium open source BI tools for your company s needs and design implement and integrate BI automation across the full stack using agile methodologies Business Intelligence Tools for Small Companies provides hands on demonstrations of open source tools suitable for the BI requirements of small businesses The authors draw on their deep experience as BI consultants developers and administrators to guide you through the extract transform load data warehousing ETL DWH sequence of extracting data from an enterprise resource planning ERP database freely available on the Internet transforming the data manipulating them and loading them into a relational database The authors demonstrate how to extract report and dashboard key performance indicators KPIs in a visually appealing format from the relational database management system RDBMS They model the selection and implementation of free and freemium tools such as Pentaho Data Integrator and Talend for ELT Oracle XE and MySQL MariaDB for RDBMS and QlikSense Power BI and MicroStrategy Desktop for reporting This richly illustrated guide models the deployment of a small company BI stack on an inexpensive cloud platform such as AWS What You ll Learn You will learn how to manage integrate and automate the processes of BI by selecting and implementing

tools to Implement and manage the business intelligence data warehousing BI DWH infrastructure Extract data from any enterprise resource planning ERP tool Process and integrate BI data using open source extract transform load ETL tools Query report and analyze BI data using open source visualization and dashboard tools Use a MOLAP tool to define next year's budget integrating real data with target scenarios Deploy BI solutions and big data experiments inexpensively on cloud platforms Who This Book Is For Engineers DBAs analysts consultants and managers at small companies with limited resources but whose BI requirements have outgrown the limitations of Excel spreadsheets personnel in mid sized companies with established BI systems who are exploring technological updates and more cost efficient solutions     Microsoft Robotics Developer Studio Fouad Sabry,2025-01-03 Microsoft Robotics Developer Studio This chapter introduces the key components and features of the Microsoft Robotics Developer Studio the primary framework for building and simulating robotics applications Microsoft Visual C Dive into the integration of Microsoft Visual C which provides a robust development environment for programming robotic applications efficiently Cross compiler Learn how crosscompilation tools expand the compatibility of your robotics programs allowing them to run on different platforms Visual programming language Explore the visual programming interface used to simplify the development of robotic systems making it easier for developers to create applications Microsoft XNA Understand how Microsoft XNA enhances the development of simulations and games contributing to robotics visualizations and simulation environments Robotics suite This chapter covers the suite of tools offered by Microsoft for building testing and deploying robotic systems enhancing the workflow Microsoft Visual Programming Language Discover the Microsoft Visual Programming Language VPL a tool that allows for easy programming through a graphical interface ideal for beginners and experts alike Concurrency and Coordination Runtime Delve into the concurrency and coordination runtime essential for managing tasks and processes in multithreaded robotic systems Visual Studio Tools for Office Understand how Visual Studio Tools for Office integrates with robotics development improving productivity through office automation Visual Studio This chapter examines the features of Visual Studio and its role in streamlining the coding debugging and testing phases of robotic system development Visual Studio Tools for Applications Learn how Visual Studio Tools for Applications helps integrate custom solutions into the development pipeline enabling flexibility in robotics programming Robotics simulator Explore how robotics simulators allow for testing and validation of robot behaviors and systems in a safe controlled virtual environment before realworld implementation Tandy Trower Gain insights into the leadership of Tandy Trower and his contributions to the evolution of the Microsoft Robotics Developer Studio FlexSim Learn how FlexSim provides simulation solutions that are essential in testing robotic systems and their applications across various industries VIPLE This chapter explains the Visual Programming Language for Education VIPLE aimed at simplifying the development of educational robotics applications AirSim AirSim is explored here showcasing its role in simulating drones and other unmanned aerial vehicles for robotics development Visual Basic NET Learn how Visual Basic

NET is used for creating robotics applications with a focus on ease of use and rapid development cycles CBuilder Discover how CBuilder simplifies the creation of highperformance applications in robotics offering seamless integration with Microsoft tools Microsoft Foundation Class Library This chapter focuses on using the Microsoft Foundation Class Library MFC for creating userfriendly graphical interfaces for robotics systems C99 Understand the role of the C99 programming language in robotics emphasizing portability and efficiency in lowlevel system development Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering Management Association, Information Resources,2021-05-28 Decision support systems DSS are widely touted for their effectiveness in aiding decision making particularly across a wide and diverse range of industries including healthcare business and engineering applications The concepts principles and theories of enhanced decision making are essential points of research as well as the exact methods tools and technologies being implemented in these industries From both a standpoint of DSS interfaces namely the design and development of these technologies along with the implementations including experiences and utilization of these tools one can get a better sense of how exactly DSS has changed the face of decision making and management in multi industry applications Furthermore the evaluation of the impact of these technologies is essential in moving forward in the future The Research Anthology on Decision Support Systems and Decision Management in Healthcare Business and Engineering explores how decision support systems have been developed and implemented across diverse industries through perspectives on the technology the utilizations of these tools and from a decision management standpoint The chapters will cover not only the interfaces implementations and functionality of these tools but also the overall impacts they have had on the specific industries mentioned This book also evaluates the effectiveness along with benefits and challenges of using DSS as well as the outlook for the future This book is ideal for decision makers IT consultants and specialists software developers design professionals academicians policymakers researchers professionals and students interested in how DSS is being used in different industries **Azure The One Part 1** Team The One,2025-03-08 Book Highlights Coverage Deep dive into Azure Fundamentals Cloud Entra Networking Storage fundamentals of data analytics and data modelling and Azure Migrations SQL NoSQL Heterogeneous databases Storage etc DualFaceted Answers Questions are answered concisely for quick reference followed by an indepth exploration section with use cases and examples for detailed understanding RealWorld Relevance Questions reflect those asked in interviews for positions such as Azure SQL DBA Azure Data Consultant Azure Migration Engineer Azure Data Engineer Database Developer Data Analyst and Azure Cloud Admin at diverse organizations Focused Learning Readers can readily find answers to specific questions enabling targeted learning Targeted Preparation Ideal for interview preparation or gaining insights into specific areas of the Azure Data Ecosystem Clarity and Conciseness Information is presented efficiently making it easier to grasp complex topics ScenarioBased Includes a wide range of realworld business case scenario questions and answers Bonus Content Features an additional chapter dedicated to Azure

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