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KEY=SOLUTION - CLINTON BAUTISTA

ETL with Azure Cookbook Practical recipes for building modern ETL solutions to load and transform data from any source Packt Publishing Ltd Explore the latest Azure ETL techniques both on-premises and in the cloud using Azure services such as SQL Server Integration Services (SSIS), Azure Data Factory, and Azure Databricks Key FeaturesUnderstand the key components of an ETL solution using Azure Integration ServicesDiscover the common and not-so-common challenges faced while creating modern and scalable ETL solutionsProgram and extend your packages to develop efficient data integration and data transformation solutionsBook Description ETL is one of the most common and tedious procedures for moving and processing data from one database to another. With the help of this book, you will be able to speed up the process by designing effective ETL solutions using the Azure services available for handling and transforming any data to suit your requirements. With this cookbook, you'll become well versed in all the features of SQL Server Integration Services (SSIS) to perform data migration and ETL tasks that integrate with Azure. You'll learn how to transform data in Azure and understand how legacy systems perform ETL on-premises using SSIS. Later chapters will get you up to speed with connecting and retrieving data from SQL Server 2019 Big Data Clusters, and even show you how to extend and customize the SSIS toolbox using custom-developed tasks and transforms. This ETL book also contains practical recipes for moving and transforming data with Azure services, such as Data Factory and Azure Databricks, and lets you explore various options for migrating SSIS packages to Azure. Toward the end, you'll find out how to profile data in the cloud and automate service creation with Business Intelligence Markup Language (BIML). By the end of this book, you'll have developed the skills you need to create and automate ETL solutions on-premises as well as in Azure. What you will learnExplore ETL and how it is different from ELTMove and transform various data sources with Azure ETL and ELT servicesUse SSIS 2019 with Azure HDInsight clustersDiscover how to query SQL Server 2019 Big Data Clusters hosted in AzureMigrate SSIS solutions to Azure and solve key challenges associated with itUnderstand why data profiling is crucial and how to implement it in Azure DatabricksGet to grips with BIML and learn how it applies to SSIS and Azure Data Factory solutionsWho this book is for This book is for data warehouse architects, ETL developers, or anyone who wants to build scalable ETL applications in Azure. Those looking to extend their existing on-premise ETL applications to use big data and a variety of Azure services or others interested in migrating existing on-premise solutions to the Azure cloud platform will also find the book useful. Familiarity with SQL Server services is necessary to get the most out of this book. **Pentaho Kettle Solutions Building Open Source ETL Solutions with Pentaho Data Integration John Wiley & Sons** A complete guide to Pentaho Kettle, the Pentaho Data Integration toolset for ETL This practical book is a complete guide to installing, configuring, and managing Pentaho Kettle. If you're a database administrator or developer, you'll first get up to speed on Kettle basics and how to apply Kettle to create ETL solutions—before progressing to specialized concepts such as clustering, extensibility, and data vault models. Learn how to design and build every phase of an ETL solution. Shows developers and database administrators how to use the open-source Pentaho Kettle for enterprise-level ETL processes (Extracting, Transforming, and Loading data) Assumes no prior knowledge of Kettle or ETL, and brings beginners thoroughly up to speed at their own pace Explains how to get Kettle solutions up and running, then follows the 34 ETL subsystems model, as created by the Kimball Group, to explore the entire ETL lifecycle, including all aspects of data warehousing with Kettle Goes beyond routine tasks to explore how to extend Kettle and scale Kettle solutions using a distributed "cloud" Get the most out of Pentaho Kettle and your data warehousing with this detailed guide—from simple single table data migration to complex multisystem clustered data integration tasks. **Hands-On Data Warehousing with Azure Data Factory ETL techniques to load and transform data from various sources, both on-premises and on cloud Packt Publishing Ltd** Leverage the power of Microsoft Azure Data Factory v2 to build hybrid data solutions Key Features Combine the power of Azure Data Factory v2 and SQL Server Integration Services Design and enhance performance and scalability of a modern ETL hybrid solution Interact with the loaded data in data warehouse and data lake using Power BI Book Description ETL is one of the essential techniques in data processing. Given data is everywhere, ETL will always be the vital process to handle data from different sources. Hands-On Data Warehousing with Azure Data Factory starts with the basic concepts of data warehousing and ETL process. You will learn how Azure Data Factory and SSIS can be used to understand the key components of an ETL solution. You will go through different

services offered by Azure that can be used by ADF and SSIS, such as Azure Data Lake Analytics, Machine Learning and Databrick's Spark with the help of practical examples. You will explore how to design and implement ETL hybrid solutions using different integration services with a step-by-step approach. Once you get to grips with all this, you will use Power BI to interact with data coming from different sources in order to reveal valuable insights. By the end of this book, you will not only learn how to build your own ETL solutions but also address the key challenges that are faced while building them. What you will learn Understand the key components of an ETL solution using Azure Data Factory and Integration Services Design the architecture of a modern ETL hybrid solution Implement ETL solutions for both on-premises and Azure data Improve the performance and scalability of your ETL solution Gain thorough knowledge of new capabilities and features added to Azure Data Factory and Integration Services Who this book is for This book is for you if you are a software professional who develops and implements ETL solutions using Microsoft SQL Server or Azure cloud. It will be an added advantage if you are a software engineer, DW/ETL architect, or ETL developer, and know how to create a new ETL implementation or enhance an existing one with ADF or SSIS. SAP Data Services 4.x Cookbook Packt Publishing Ltd Delve into the SAP Data Services environment to efficiently prepare, implement, and develop ETL processes About This Book Install and configure the SAP Data Services environment Develop ETL techniques in the Data Services environment Implement real-life examples of Data Services uses through step-by-step instructions to perform specific ETL development tasks Who This Book Is For This book is for IT technical engineers who want to get familiar with the EIM solutions provided by SAP for ETL development and data quality management. The book requires familiarity with basic programming concepts and basic knowledge of the SQL language. What You Will Learn Install, configure, and administer the SAP Data Services components Run through the ETL design basics Maximize the performance of your ETL with the advanced patterns in Data Services Extract methods from various databases and systems Get familiar with the transformation methods available in SAP Data Services Load methods into various databases and systems Code with the Data Services scripting language Validate and cleanse your data, applying the Data quality methods of the Information Steward In Detail Want to cost effectively deliver trusted information to all of your crucial business functions? SAP Data Services delivers one enterprise-class solution for data integration, data quality, data profiling, and text data processing. It boosts productivity with a single solution for data quality and data integration. SAP Data Services also enables you to move, improve, govern, and unlock big data. This book will lead you through the SAP Data Services environment to efficiently develop ETL processes. To begin with, you'll learn to install, configure, and prepare the ETL development environment. You will get familiarized with the concepts of developing ETL processes with SAP Data Services. Starting from smallest unit of work- the data flow, the chapters will lead you to the highest organizational unit—the Data Services job, revealing the advanced techniques of ETL design. You will learn to import XML files by creating and implementing real-time jobs. It will then guide you through the ETL development patterns that enable the most effective performance when extracting, transforming, and loading data. You will also find out how to create validation functions and transforms. Finally, the book will show you the benefits of data quality management with the help of another SAP solution—Information Steward. Style and approach This book is an easy-to-follow guide with step-by-step instructions to perform specific ETL development tasks. New York University Institute on State and Local Taxation LexisNexis Each December the biggest names in state and local taxation gather at New York University and offer presentations on hot, cutting-edge issues in state and local taxation to their fellow practitioners at the NYU Institute on State and Local Taxation. The develop their presentations into law review-quality articles, published by Matthew Bender, that examine the most critical tax issues of the year in exhaustive depth. As practical as they are scholarly, these indispensable articles are laden with examples, tax-planning tips and commentary. The leading tax law authorities deliver insightful and problem-solving guidance, including: • Intellectual Property • Taxation of E-Commerce • State Tax Nexus Issues • Sales/Use Tax • State Tax Administration • State-specific topics • Accounting issues • Professional ethics • Includes index, table of cases and table of statutes. Advanced SQL Server 2005-2008 for the Experienced Professional Lulu.com The Kimball Group Reader Relentlessly Practical Tools for Data Warehousing and Business Intelligence Remastered Collection John Wiley & Sons The final edition of the incomparable data warehousing and business intelligence reference, updated and expanded The Kimball Group Reader, Remastered Collection is the essential reference for data warehouse and business intelligence design, packed with best practices, design tips, and valuable insight from industry pioneer Ralph Kimball and the Kimball Group. This Remastered Collection represents decades of expert advice and mentoring in data warehousing and business intelligence, and is the final work to be published by the Kimball Group. Organized for quick navigation and easy reference, this book contains nearly 20 years of experience on more than 300 topics, all fully up-to-date and expanded with 65 new articles. The discussion covers the complete data warehouse/business intelligence lifecycle, including project planning, requirements gathering, system architecture, dimensional modeling, ETL, and business intelligence analytics, with each group of articles prefaced by original commentaries explaining their role in the overall Kimball Group methodology. Data warehousing/business intelligence industry's current multi-billion dollar value is due in no small part to the contributions of Ralph Kimball and the Kimball Group. Their publications are the standards on which the industry is built, and nearly all data warehouse hardware and software vendors have adopted their methods in one form or another. This book is a compendium of Kimball Group expertise, and an essential reference for anyone in the field. Learn data warehousing and business intelligence from the field's pioneers Get up to date on best practices and essential design tips Gain valuable knowledge on every stage of the project lifecycle Dig into the Kimball Group methodology with hands-on guidance Ralph Kimball and the Kimball Group have continued to refine their methods and techniques based on thousands of hours of consulting and training. This Remastered Collection of The Kimball Group Reader represents their final body of

knowledge, and is nothing less than a vital reference for anyone involved in the field. B2B Integration A Practical Guide to Collaborative E-Commerce World Scientific This comprehensive guide reveals the key elements of successful B2B integration and collaborative e-commerce, by highlighting business needs, technologies, and development strategies. It equips companies with practical guidelines for quickly implementing an effective B2Bi strategy, and prepares them for the next wave of B2B integration and collaborative e-commerce. It clarifies the intricate dependencies among all the components of B2Bi, including integration patterns, enterprise application integration (EAI), business process management (BPM), Internet security, XML, Web services, middleware technologies, and integration brokers. Included are future technologies that will have a significant impact on B2Bi architectures, such as intelligent software agents, wireless technologies, and peer-to-peer computing. This reference provides a suitable framework for the design, development, and implementation of B2B integration, along with several case studies. Editors: Dr Marcus Healey — Strategy Consultant for InfoFirst Inc., USA Dr Shyam Samtani (Language Editor) — Professor of English, P G Department of English, Indore Christian College, India Contributors: Kenneth Tamburello — Senior Consultant Specialist at Bluesphere (an EDS company), USA Deepak Bajaj — Course Coordinator of Project Management, University of Technology Sydney (UTS), Australia Dimple Sadhwani — Senior Software Engineer, Island ECN, USA Pawan Samtani — Country Operations Manager, Oracle Corporation, India Contents: The Big Picture:IntroductionComponents, Benefits, Challenges and Applications of B2B IntegrationEstablished Integration Components:Integration PatternsEnterprise Application Integration (EAI)Business Process Management (BPM)Extensible Markup Language (XML)XML Standards for E-BusinessMiddleware TechnologiesIntegration BrokersInternet SecurityEvolving Integration Components:Web ServicesWireless TechnologiesSoftware AgentsB2Bi-Enabled Applications:Supply Chain Management (SCM)E-Marketplaces and Collaborative NetworksConclusion:B2B to P2P Evolution Readership: MBA students, business executives, IT managers and programmers, and CIOs. Microsoft SQL Server 2008 Integration Services Problem, Design, Solution John Wiley & Sons An authoritative guide to designing effective solutions for data cleansing, ETL, and file management with SQL Server 2008 Integration Services SQL Server Integration Services (SSIS) is the leading tool in the data warehouse industry, used for performing extraction, transformation, and load operations. After an overview of SSIS architecture, the authors walk you a series of real-world problems and show various techniques for handling them. Shows you how to design SSIS solutions for data cleansing, ETL and file management Demonstrates how to integrate data from a variety of data sources, Shows how to monitor SSIS performance, Demonstrates how to avoid common pitfalls involved with SSIS deployment Explains how to ensure performance of the deployed solution and effectively handle unexpected system failures and outages The companion Web site provides sample code and database scripts that readers can directly implement This book shows you how to design, build, deploy, and manage solutions to real-world problems that SSIS administrators and developers face day-to-day. Pro SQL Server 2012 Integration Services Apress Pro SQL Server 2012 Integration Services teaches how to take advantage of the powerful extract, transform, and load (ETL) platform included with Microsoft SQL Server 2012. You'll learn to build scalable, robust, performance-driven enterprise ETL solutions that save time and make money for your company. You'll learn to avoid common ETL development pitfalls and how to extend the power of your ETL solutions to include virtually any possible transformation on data from any conceivable source. SQL Server Integration Services (SSIS) facilitates an unprecedented ability to load data from anywhere, perform any type of manipulation on it, and store it to any source. Whether you are populating databases, retrieving data from the Web, or performing complex calculations on large data sets, SSIS gives you the tools to get the job done. And this book gives you the knowledge to take advantage of everything SSIS offers. Helps you design and develop robust, efficient, scalable ETL solutions Walks you through using the built-in, stock components Shows how to programmatically extend the power of SSIS to cover any possible scenario Agile Data Warehousing for the Enterprise A Guide for Solution Architects and Project Leaders Newnes Building upon his earlier book that detailed agile data warehousing programming techniques for the Scrum master, Ralph's latest work illustrates the agile interpretations of the remaining software engineering disciplines: Requirements management benefits from streamlined templates that not only define projects quickly, but ensure nothing essential is overlooked. Data engineering receives two new "hyper modeling" techniques, yielding data warehouses that can be easily adapted when requirements change without having to invest in ruinously expensive data-conversion programs. Quality assurance advances with not only a stereoscopic top-down and bottom-up planning method, but also the incorporation of the latest in automated test engines. Use this step-by-step guide to deepen your own application development skills through self-study, show your teammates the world's fastest and most reliable techniques for creating business intelligence systems, or ensure that the IT department working for you is building your next decision support system the right way. Learn how to quickly define scope and architecture before programming starts Includes techniques of process and data engineering that enable iterative and incremental delivery Demonstrates how to plan and execute quality assurance plans and includes a guide to continuous integration and automated regression testing Presents program management strategies for coordinating multiple agile data mart projects so that over time an enterprise data warehouse emerges Use the provided 120-day road map to establish a robust, agile data warehousing program Springer Nature Electromagnetic Field Interaction with Transmission Lines From Classical Theory to HF Radiation Effects WIT Press The evaluation of electromagnetic field coupling to transmission lines is an important problem in electromagnetic compatibility. Traditionally, use is made of the TL approximation which applies to uniform transmission lines with electrically small cross-sectional dimensions, where the dominant mode of propagation is TEM. Antenna-mode currents and higher-order modes appearing at higher frequencies are neglected in TL theory. The use of the TL approximation has permitted to solve a large range of problems (e.g. lightning and EMP interaction with power lines). However, the continual increase in operating frequency of products and higher frequency

sources of disturbances (such as UWB systems) makes that the TL basic assumptions are no longer acceptable for a certain number of applications. In the last decade or so, the generalization of classical TL theory to take into account high frequency effects has emerged as an important topic of study in electromagnetic compatibility. This effort resulted in the elaboration of the so-called 'generlized' or 'full-wave' TL theory, which incorporates high frequency radiation effects, while keeping the relative simplicity of TL equations. This book is organized in two main parts. Part I presents consolidated knowledge of classical transmission line theory and different field-to-transmission line coupling models. Part II presents different approaches developed to generalize TL Theory. SQL Server 2017 Machine Learning Services with R Data exploration, modeling, and advanced analytics Packt Publishing Ltd Develop and run efficient R scripts and predictive models for SQL Server 2017 Key Features Learn how you can combine the power of R and SQL Server 2017 to build efficient, cost-effective data science solutions Leverage the capabilities of R Services to perform advanced analytics—from data exploration to predictive modeling A quick primer with practical examples to help you get up- and- running with SQL Server 2017 Machine Learning Services with R, as part of database solutions with continuous integration / continuous delivery. Book Description R Services was one of the most anticipated features in SQL Server 2016, improved significantly and rebranded as SQL Server 2017 Machine Learning Services. Prior to SQL Server 2016, many developers and data scientists were already using R to connect to SQL Server in siloed environments that left a lot to be desired, in order to do additional data analysis, superseding SSAS Data Mining or additional CLR programming functions. With R integrated within SQL Server 2017, these developers and data scientists can now benefit from its integrated, effective, efficient, and more streamlined analytics environment. This book gives you foundational knowledge and insights to help you understand SQL Server 2017 Machine Learning Services with R. First and foremost, the book provides practical examples on how to implement, use, and understand SQL Server and R integration in corporate environments, and also provides explanations and underlying motivations. It covers installing Machine Learning Services;maintaining, deploying, and managing code;and monitoring your services. Delving more deeply into predictive modeling and the RevoScaleR package, this book also provides insights into operationalizing code and exploring and visualizing data. To complete the journey, this book covers the new features in SQL Server 2017 and how they are compatible with R, amplifying their combined power. What you will learn Get an overview of SQL Server 2017 Machine Learning Services with R Manage SQL Server Machine Learning Services from installation to configuration and maintenance Handle and operationalize R code Explore RevoScaleR R algorithms and create predictive models Deploy, manage, and monitor database solutions with R Extend R with SQL Server 2017 features Explore the power of R for database administrators Who this book is for This book is for data analysts, data scientists, and database administrators with some or no experience in R but who are eager to easily deliver practical data science solutions in their day-to-day work (or future projects) using SQL Server. Etl - Extract, Transform, Load Data Analytics Study Guide Student Study Guides ETL is short for extract, transform, load, three database functions that are combined into one tool to pull data out of one database and place it into another database. Extract is the process of reading data from a database. In addition to a relational database, a data warehouse environment can include an extraction, transportation, transformation, and loading (ETL) solution, online analytical processing (OLAP) and data mining capabilities, client analysis tools, and other applications that manage the process of gathering data and delivering it to business users. Emerging Perspectives in Big Data Warehousing IGI Global The concept of a big data warehouse appeared in order to store moving data objects and temporal data information. Moving objects are geometries that change their position and shape continuously over time. In order to support spatio-temporal data, a data model and associated query language is needed for supporting moving objects. Emerging Perspectives in Big Data Warehousing is an essential research publication that explores current innovative activities focusing on the integration between data warehousing and data mining with an emphasis on the applicability to real-world problems. Featuring a wide range of topics such as index structures, ontology, and user behavior, this book is ideally designed for IT consultants, researchers, professionals, computer scientists, academicians, and managers. Business Intelligence and Big Data 7th European Summer School, eBISS 2017, Bruxelles, Belgium, July 2–7, 2017, Tutorial Lectures Springer This book constitutes revised tutorial lectures of the 7th European Business Intelligence and Big Data Summer School, eBISS 2017, held in Bruxelles, Belgium, in July 2017. The tutorials were given by renowned experts and covered advanced aspects of business intelligence and big data. This summer school, presented by leading researchers in the field, represented an opportunity for postgraduate students to equip themselves with the theoretical, practical, and collaboration skills necessary for developing challenging business intelligence applications. Advanced Techniques for IoT Applications Proceedings of EAIT 2020 Springer Nature This book includes original, unpublished contributions presented at the Sixth International Conference on Emerging Applications of Information Technology (EAIT 2020), held at the University of Kalyani, Kalyani, West Bengal, India, on November 2020. The book covers the topics such as image processing, computer vision, pattern recognition, machine learning, data mining, big data and analytics, information security and privacy, wireless and sensor networks, and IoT. It will also include IoT application-related papers in pattern recognition, artificial intelligence, expert systems, natural language understanding, image processing, computer vision, applications in biomedical engineering, artificial neural networks, fuzzy logic, evolutionary optimization, data mining, Web intelligence, intelligent agent technology, virtual reality, and visualization. Data Mining and Warehousing New Age International Data Mining is the process of analyzing large amount of data in search of previously undiscovered business patterns. Data Warehousing is a relational/multidimensional database that is designed for Query and Analysis rather than Transaction Processing. This book provides a systematic introduction to the principles of Data Mining and Data Warehousing. It covers the entire range of data mining algorithms (prediction, classification, and association), data mining products and

applications, stages. Recent Advances in Information Systems and Technologies Volume 2 Springer This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human–Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications. SQL Server 2017 Integration Services Cookbook Packt Publishing Ltd Harness the power of SQL Server 2017 Integration Services to build your data integration solutions with ease About This Book Acquaint yourself with all the newly introduced features in SQL Server 2017 Integration Services Program and extend your packages to enhance their functionality This detailed, step-by-step guide covers everything you need to develop efficient data integration and data transformation solutions for your organization Who This Book Is For This book is ideal for software engineers, DW/ETL architects, and ETL developers who need to create a new, or enhance an existing, ETL implementation with SQL Server 2017 Integration Services. This book would also be good for individuals who develop ETL solutions that use SSIS and are keen to learn the new features and capabilities in SSIS 2017. What You Will Learn Understand the key components of an ETL solution using SQL Server 2016-2017 Integration Services Design the architecture of a modern ETL solution Have a good knowledge of the new capabilities and features added to Integration Services Implement ETL solutions using Integration Services for both on-premises and Azure data Improve the performance and scalability of an ETL solution Enhance the ETL solution using a custom framework Be able to work on the ETL solution with many other developers and have common design paradigms or techniques Effectively use scripting to solve complex data issues In Detail SQL Server Integration Services is a tool that facilitates data extraction, consolidation, and loading options (ETL), SQL Server coding enhancements, data warehousing, and customizations. With the help of the recipes in this book, you'll gain complete hands-on experience of SSIS 2017 as well as the 2016 new features, design and development improvements including SCD, Tuning, and Customizations. At the start, you'll learn to install and set up SSIS as well other SQL Server resources to make optimal use of this Business Intelligence tools. We'll begin by taking you through the new features in SSIS 2016/2017 and implementing the necessary features to get a modern scalable ETL solution that fits the modern data warehouse. Through the course of chapters, you will learn how to design and build SSIS data warehouses packages using SQL Server Data Tools. Additionally, you'll learn to develop SSIS packages designed to maintain a data warehouse using the Data Flow and other control flow tasks. You'll also be demonstrated many recipes on cleansing data and how to get the end result after applying different transformations. Some real-world scenarios that you might face are also covered and how to handle various issues that you might face when designing your packages. At the end of this book, you'll get to know all the key concepts to perform data integration and transformation. You'll have explored on-premises Big Data integration processes to create a classic data warehouse, and will know how to extend the toolbox with custom tasks and transforms. Style and approach This cookbook follows a problem-solution approach and tackles all kinds of data integration scenarios by using the capabilities of SQL Server 2016 Integration Services. This book is well supplemented with screenshots, tips, and tricks. Each recipe focuses on a particular task and is written in a very easy-to-follow manner. Professional Access 2013 Programming John Wiley & Sons Authoritative and comprehensive coverage for building Access 2013 Solutions Access, the most popular database system in the world, just opened a new frontier in the Cloud. Access 2013 provides significant new features for building robust line-of-business solutions for web, client and integrated environments. This book was written by a team of Microsoft Access MVPs, with consulting and editing by Access experts, MVPs and members of the Microsoft Access team. It gives you the information and examples to expand your areas of expertise and immediately start to develop and upgrade projects. Explores the new development environment for Access web apps Focuses on the tools and techniques for developing robust web applications Demonstrates how to monetize your apps with Office Store and create e-commerce solutions Explains how to use SQL Server effectively to support both web and client solutions Provides techniques to add professional polish and deploy desktop application Shows you how to automate other programs using Macros, VBA, API calls and more. Professional Access 2013 Programming is a complete guide on the latest tools and techniques for building Access 2013 applications for both the web and the desktop so that developers and businesses can move forward with confidence. Whether you want to add expand your expertise with Client/Server deployments or start developing web apps, you will want this book as a companion and reference. Pentaho Data Integration Quick Start Guide Create ETL processes using Pentaho Packt Publishing Ltd Get productive quickly with Pentaho Data Integration Key Features Take away the pain of starting with a complex and powerful system Simplify your data transformation and integration work Explore, transform, and validate your data with Pentaho Data Integration Book Description Pentaho Data Integration(PDI) is an intuitive and graphical environment packed with drag and drop design and powerful Extract-Transform-Load (ETL) capabilities. Given its power and flexibility, initial attempts to use the Pentaho Data Integration tool can be difficult or confusing. This book is the ideal solution. This book reduces your learning curve with PDI. It provides the guidance needed to make you productive, covering the main features of Pentaho Data Integration. It demonstrates the interactive features of the graphical designer, and takes you through the main ETL capabilities that the tool offers. By the end of the book, you will be able to use PDI for extracting, transforming, and loading the types of data

you encounter on a daily basis. What you will learn Design, preview and run transformations in Spoon Run transformations using the Pan utility Understand how to obtain data from different types of files Connect to a database and explore it using the database explorer Understand how to transform data in a variety of ways Understand how to insert data into database tables Design and run jobs for sequencing tasks and sending emails Combine the execution of jobs and transformations Who this book is for This book is for software developers, business intelligence analysts, and others involved or interested in developing ETL solutions, or more generally, doing any kind of data manipulation. A Domain Specific Model for Generating ETL Workflows from Business Intents Extract-Transform-Load (ETL) tools have provided organizations with the ability to build and maintain workflows (consisting of graphs of data transformation tasks) that can process the flood of digital data. Currently, however, the specification of ETL workflows is largely manual, human time intensive, and error prone. As these workflows become increasingly complex, the users that build and maintain them must retain an increasing amount of knowledge specific to how to produce solutions to business objectives using their domain's ETL workflow system. A program that can reduce the human time and expertise required to define such workflows, producing accurate ETL solutions with fewer errors would therefore be valuable. This dissertation presents a means to automate the specification of ETL workflows using a domain-specific modeling language. To provide such a solution, the knowledge relevant to the construction of ETL workflows for the operations and objectives of a given domain is identified and captured. The approach provides a rich model of ETL workflow capable of representing such knowledge. This knowledge representation is leveraged by a domain-specific modeling language which maps declarative statements into workflow requirements. Users are then provided with the ability to assertionally express the "intents" that describe a desired ETL solution at a high-level of abstraction, from which procedural workflows satisfying the intent specification are automatically generated using a planner. Expert SQL Server 2005 Integration Services John Wiley & Sons As a practical guide for Integration Services ETL development, this book shows you ways to implement your ETL solution requirements from the data to the administration and everything in-between. Each chapter begins with a review of pertinent ETL concepts and moves into working those out into a design with multiple examples and related Integration Services features with the end goal of putting it all together to get a solution. Pro SQL Server 2012 BI Solutions Apress Business intelligence projects do not need to cost multi-millions of dollars or take months or even years to complete! Using rapid application development (RAD) techniques along with Microsoft SQL Server 2012, this book guides database administrators, SQL programmers, and report specialists in creating practical, cost-effective business intelligence solutions for their companies and departments. Pro SQL Server 2012 BI Solutions provides practical examples of cost-effective business intelligence projects. Readers will be guided through several complete projects that build a foundation for real-world solutions. Even with limited experience using Microsoft's SQL Server, Integration Server, Analysis Server, and Reporting Server, you can leverage your existing knowledge of SQL programming and database design to provide users with the business intelligence reports they need. Provides recipes for multiple business intelligence scenarios Progresses from simple to advanced projects using several examples Shows Microsoft SQL Server technology used to complete real-world business intelligence projects Implementing the IBM General Parallel File System (GPFS) in a Cross Platform Environment IBM Redbooks This IBM® Redbooks® publication provides a documented deployment model for IBM GPFSTM in a cross-platform environment with IBM Power SystemsTM, Linux, and Windows servers. With IBM GPFS, customers can have a planned foundation for file systems management for cross-platform access solutions. This book examines the functional, integration, simplification, and usability changes with GPFS v3.4. It can help the technical teams provide file system management solutions and technical support with GPFS, based on Power Systems virtualized environments for cross-platform file systems management. The book provides answers to your complex file systems management requirements, helps you maximize file system availability, and provides expert-level documentation to transfer the how-to skills to the worldwide support teams. The audience for this book is the technical professional (IT consultants, technical support staff, IT architects, and IT specialists) who is responsible for providing file system management solutions and support for cross-platform environments that are based primarily on Power Systems. New Trends in Databases and Information Systems Springer Science & Business Media Database and information systems technologies have been rapidly evolving in several directions over the past years. New types and kinds of data, new types of applications and information systems to support them raise diverse challenges to be addressed. The so-called big data challenge, streaming data management and processing, social networks and other complex data analysis, including semantic reasoning into information systems supporting for instance trading, negotiations, and bidding mechanisms are just some of the emerging research topics. This volume contains papers contributed by six workshops: ADBIS Workshop on GPUs in Databases (GID 2012), Mining Complex and Stream Data (MCSD'12), International Workshop on Ontologies meet Advanced Information Systems (OAIS'2012), Second Workshop on Modeling Multi-commodity Trade: Data models and processing (MMT'12), 1st ADBIS Workshop on Social Data Processing (SDP'12), 1st ADBIS Workshop on Social and Algorithmic Issues in Business Support (SAIBS), and the Ph.D. Consortium associated with the ADBIS 2012 conference that report on the recent developments and an ongoing research in the aforementioned areas. Business Intelligence and Big Data Drivers of Organizational Success CRC Press The twenty-first century is a time of intensifying competition and progressive digitization. Individual employees, managers, and entire organizations are under increasing pressure to succeed. The questions facing us today are: What does success mean? Is success a matter of chance and luck or perhaps is success a category that can be planned and properly supported? Business Intelligence and Big Data: Drivers of Organizational Success examines how the success of an organization largely depends on the ability to anticipate and quickly respond to challenges from the market, customers, and other stakeholders. Success is also associated with the potential to process and analyze a variety of information and

the means to use modern information and communication technologies (ICTs). Success also requires creative behaviors and organizational cleverness from an organization. The book discusses business intelligence (BI) and Big Data (BD) issues in the context of modern management paradigms and organizational success. It presents a theoretically and empirically grounded investigation into BI and BD application in organizations and examines such issues as: Analysis and interpretation of the essence of BI and BD Decision support Potential areas of BI and BD utilization in organizations Factors determining success with using BI and BD The role of BI and BD in value creation for organizations Identifying barriers and constraints related to BI and BD design and implementation The book presents arguments and evidence confirming that BI and BD may be a trigger for making more effective decisions, improving business processes and business performance, and creating new business. The book proposes a comprehensive framework on how to design and use BI and BD to provide organizational success. The Semantic Web ESWC 2016 Satellite Events, Heraklion, Crete, Greece, May 29 – June 2, 2016, Revised Selected Papers Springer This book constitutes the thoroughly refereed post-conference proceedings of the Satellite Events of the 13th European Conference on the Semantic Web, ESWC 2016, held in Heraklion, Greece, in May/June 2016. The volume contains 16 full papers and 38 poster and demonstration papers, carefully selected from 12 workshops focusing on specific research issues related to the Semantic Web. SAP HANA Advanced Modeling Espresso Tutorials GmbH This book introduces developers and architects to the methods and options for implementing smart SAP HANA solutions based on real-world projects, and field tests. It contains clear recommendations for setting up data models, optimizing performance, using the SAP HANA modeler and development perspectives, and for solving complex requirements efficiently. Using a case study to walk through SAP HANA design elements and options, the authors share practical examples, tips, and screenshots for explaining and demonstrating the intricacies of SAP HANA. This book provides SAP HANA design patterns with the best balance between performance, memory consumption, and maintainability. Learn how to leverage advanced modeling techniques for implementing a sustainable architecture and for solving further business problems. • Data modeling guidelines and common test approaches • Information view performance optimization • Modular solutions to complex requirements • Best practices and recommendations Polymers for Light-emitting Devices and Displays John Wiley & Sons Polymers for Light-Emitting Devices and Displays provides an in-depth overview of fabrication methods and unique properties of polymeric semiconductors, and their potential applications for LEDs including organic electronics, displays, and optoelectronics. Some of the chapter subjects include: • The newest polymeric materials and processes beyond the classical structure of PLED • Conjugated polymers and their application in the light-emitting diodes (OLEDs & PLEDs) as optoelectronic devices. • The novel work carried out on electrospun nanofibers used for LEDs. • The roles of diversified architectures, layers, components, and their structural modifications in determining efficiencies and parameters of PLEDs as high-performance devices. • Polymer liquid crystal devices (PLCs), their synthesis, and applications in various liquid crystal devices (LCs) and displays. • Reviews the state-of-art of materials and technologies to manufacture hybrid white light-emitting diodes based on inorganic light sources and organic wavelength converters. Big Data Application Architecture Q&A A Problem - Solution Approach Apress Big Data Application Architecture Pattern Recipes provides an insight into heterogeneous infrastructures, databases, and visualization and analytics tools used for realizing the architectures of big data solutions. Its problem-solution approach helps in selecting the right architecture to solve the problem at hand. In the process of reading through these problems, you will learn harness the power of new big data opportunities which various enterprises use to attain real-time profits. Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time 'how do you select the best end-to-end architecture to solve your big data problem?'. The book deals with various mission critical problems encountered by solution architects, consultants, and software architects while dealing with the myriad options available for implementing a typical solution, trying to extract insight from huge volumes of data in real–time and across multiple relational and non-relational data types for clients from industries like retail, telecommunication, banking, and insurance. The patterns in this book provide the strong architectural foundation required to launch your next big data application. The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently. This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem, evaluation of trade-offs and validation of 'fitness-for-purpose' of the solution. SQL Server 2012 Integration Services Design Patterns Apress SQL Server 2012 Integration Services Design Patterns is a book of recipes for SQL Server Integration Services (SSIS). Design patterns in the book show how to solve common problems encountered when developing data integration solutions. Because you do not have to build the code from scratch each time, using design patterns improves your efficiency as an SSIS developer. In SSIS Design Patterns, we take you through several of these snippets in detail, providing the technical details of the resolution. SQL Server 2012 Integration Services Design Patterns does not focus on the problems to be solved; instead, the book delves into why particular problems should be solved in certain ways. You'll learn more about SSIS as a result, and you'll learn by practical example. Where appropriate, SQL Server 2012 Integration Services Design Patterns provides examples of alternative patterns and discusses when and where they should be used. Highlights of the book include sections on ETL Instrumentation, SSIS Frameworks, and Dependency Services. Takes you through solutions to several common data integration challenges Demonstrates new features in SQL Server 2012 Integration Services Teaches SSIS using practical examples From Big Data to Intelligent Data An Applied Perspective Springer Nature This book addresses many of the gaps in how industry and academia are currently tackling problems associated with big data. It introduces novel concepts, describes the end-to-end process, and connects the various pieces of the puzzle to offer a holistic view. In addition, it explains important concepts for a wide audience, using accessible language, diagrams, examples and analogies to

do so. The book is intended for readers working in industry who want to expand their knowledge or pursue a related degree, and employs an industry-centered perspective. Knowledge Discovery, Knowledge Engineering and Knowledge Management 8th International Joint Conference, IC3K 2016, Porto, Portugal, November 9–11, 2016, Revised Selected Papers Springer This book constitutes the thoroughly refereed proceedings of the 8th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management, IC3K 2016, held in Porto, Portugal, in November 2016. The 18 full papers presented were carefully reviewed and selected from 186 submissions. The papers are organized in topical sections on knowledge discovery and information retrieval; knowledge engineering and ontology development; and knowledge management and information sharing. Data Warehouses and OLAP: Concepts, Architectures and Solutions Concepts, Architectures and Solutions IGI Global "This book provides an insight into important research and technological problems, solutions, and development trends in the field of data warehousing and OLAP. It also serves as an up-to-date bibliography of published works for anyone interested in cutting-edge DW and OLAP issues"--Provided by publisher. New Trends in Data Warehousing and Data Analysis Springer Science & Business Media Most of modern enterprises, institutions, and organizations rely on knowledge-based management systems. In these systems, knowledge is gained from data analysis. Today, knowledge-based management systems include data warehouses as their core components. Data integrated in a data warehouse are analyzed by the so-called On-Line Analytical Processing (OLAP) applications designed to discover trends, patterns of behavior, and anomalies as well as finding dependencies between data. Massive amounts of integrated data and the complexity of integrated data coming from many different sources make data integration and processing challenging. New Trends in Data Warehousing and Data Analysis brings together the most recent research and practical achievements in the DW and OLAP technologies. It provides an up-to-date bibliography of published works and the resource of research achievements. Finally, the book assists in the dissemination of knowledge in the field of advanced DW and OLAP. Beyond Databases, Architectures and Structures 11th International Conference, BDAS 2015, Ustroń, Poland, May 26-29, 2015, Proceedings Springer This book constitutes the refereed proceedings of the 11th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2015, held in Ustroń, Poland, in May 2015. This book consists of 53 carefully revised selected papers that are assigned to 8 thematic groups: database architectures and performance; data integration, storage and data warehousing; ontologies and semantic web; artificial intelligence, data mining and knowledge discovery; image analysis and multimedia mining; spatial data analysis; database systems development; application of database systems. Data Virtualization for Business Intelligence Systems Revolutionizing Data Integration for Data Warehouses Elsevier Annotation In this book, Rick van der Lans explains how data virtualization servers work, what techniques to use to optimize access to various data sources and how these products can be applied in different projects.