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This book explores the power of greater openness, accountability, and transparency in digital information and government data for the nations of Southeast Asia. The author demonstrates that, although the term “open data” seems to be self-explanatory, it involves an evolving ecosystem of complex domains. Through empirical case studies, this book explains how governments in the ASEAN may harvest the benefits of open data to maximize their productivity, efficiency and innovation. The book also investigates how increasing digital divides in the population, boundaries to civil society, and shortfalls in civil and political rights threaten to arrest open data in early development, which may hamper post-2015 development

agendas in the region. With robust open data policies and clear roadmaps, member states of the ASEAN can harvest the promising opportunities of open data in their particular developmental, institutional and legal settings. Governments, policy makers, entrepreneurs and academics will gain a clearer understanding of the factors that enable open data from this timely research. This book shows how the vision for open access to scientific data can be more readily achieved through a staged model that research funders, policy makers, scientists, and research organizations can adopt in their practice. Drawing on her own experiences with data processing, on early findings with open scientific data at CERN (the European Organization for Nuclear Research), and from case studies of shared clinical trial data, the author updates our understanding of research data - what it is; how it dynamically evolves across different scientific disciplines and across various stages of research practice; and how it can, and indeed should, be shared at any of those stages. The result is a flexible and pragmatic path for implementing open scientific data. Have you ever been faced with a new type of query to write, or been asked to create an unfamiliar database object? In such situations, you have probably wanted a good, solid example upon which to build, and instead have been forced into the drudgery of parsing railroad-style syntax diagrams in Oracle's manual set. This book frees you from that drudgery by providing tested and working examples of SQL used to solve common problems faced by developers and database administrators on a daily basis. When you're under pressure to get results fast, Oracle SQL Recipes is there at your side. Example-based, providing quality solutions to everyday problems Respects your time by putting solutions first and keeping discussions short Solves the most commonly encountered SQL problems "In 2011, the Global Facility for Disaster Reduction and Recovery created the Open Data for Resilience Initiative (OpenDRI) to help people in vulnerable regions better understand the historical and changing risks they face from natural hazards. OpenDRI is a partnership of governments and international institutions that are building a deeper, collective understanding of risk by sharing information about their hazards, exposure, vulnerability, and risks. OpenDRI offers governments and their partners a process for cataloguing their existing data, engaging at-risk communities in mapping and curating data about their built environment, building partnerships around data. This field guide provides planners and program officers with a map of how to implement the collective effort that is OpenDRI. It is aimed at a person who needs to write a strategic vision, craft a budget, hire personnel, and evaluate the impact of open data. " Packed with practical, freely available backup and recovery solutions for Unix, Linux, Windows, and Mac OS X systems -- as well as various databases -- this new guide is a complete overhaul of

Unix Backup & Recovery by the same author, now revised and expanded with over 75% new material. *Backup & Recovery* starts with a complete overview of backup philosophy and design, including the basic backup utilities of tar, dump, cpio, ntbacup, ditto, and rsync. It then explains several open source backup products that automate backups using those utilities, including AMANDA, Bacula, BackupPC, rdiff-backup, and rsnapshot. *Backup & Recovery* then explains how to perform bare metal recovery of AIX, HP-UX, Linux, Mac OS, Solaris, VMWare, & Windows systems using freely-available utilities. The book also provides overviews of the current state of the commercial backup software and hardware market, including overviews of CDP, Data De-duplication, D2D2T, and VTL technology. Finally, it covers how to automate the backups of DB2, Exchange, MySQL, Oracle, PostgreSQL, SQL-Server, and Sybase databases - without purchasing a commercial backup product to do so. For environments of all sizes and budgets, this unique book shows you how to ensure data protection without resorting to expensive commercial solutions. You will soon learn to: Automate the backup of popular databases without a commercial utility Perform bare metal recovery of any popular open systems platform, including your PC or laptop Utilize valuable but often unknown open source backup products Understand the state of commercial backup software, including explanations of CDP and data de-duplication software Access the current state of backup hardware, including Virtual Tape Libraries (VTLs) Harness the power of SQL Server, Microsoft's high-performance database and data analysis software package, by accesing everything you need to know in *Microsoft SQL Server 2008 Bible*. Learn the best practices, tips, and tricks from this comprehensive tutorial and reference, which includes specific examples and sample code, with nearly every task demonstrated in both a graphical and SQL code method. Understand how to develop SQL Server databases and data connections, how to administer the SQL Server and keep databases performing optimally, and how to navigate all the new features of the 2008 release. Proceedings of the 14th edition of ArcheoFOSS, 18 high-level and peer reviewed papers are well distributed between two thematic sections—Application Cases and Development, and Open Data—contributed by more than forty Italian and foreign scholars, researchers and freelance archaeologists working in the field of Cultural Heritage. IMSTM Version 11 continues to provide the leadership in performance, reliability, and security that is expected from the product of choice for critical online operational applications. IMS 11 also offers new functions to help you keep pace with the evolving IT industry. Through the introduction of the new IMS Enterprise Suite application developers with minimal knowledge of IMS Connect can start developing client applications to communicate with IMS.

With Open Database, IMS 11 also provides direct SQL access to IMS data from programs that run on any distributed platform, unlocking DL/I data to the world of SQL application programmers. In this IBM® Redbooks® publication, system programmers get the steps for installing the new IMS components, and the application programmer can follow scenarios of how client applications can take advantage of SQL to access IMS data. We describe the installation of prerequisites, such as IMS Connect and the Structured Call Interface component of Common Service Layer address space and document the set up of the three new IMS drivers: - Universal DB resource adapter - Universal JDBC driver - Universal DL/I driver Our scenarios use the JDBC driver for type-4 access from Windows® to a remote DL/I database and DB2® tables and extend it to use IBM Mashup Center to provide an effective Web interface and to integrate with Open Database. Important: IMS Enterprise Suite V2.1 is the last release of the IMS Enterprise Suite that includes the DLIModel utility plug-in. Customers should migrate to using IMS Enterprise Suite V2.2 or later, which includes the IMS Enterprise Suite Explorer for Development. DLIModel utility projects can be imported into new IMS Explorer projects. In this book, any references to generating IMS metadata classes by using the DLIModel utility are comparable to the actions used to generate the classes using the IMS Explorer for Development. Digital innovation — involving the Internet, its content and ecosystems of global users — is a rapidly evolving way of creating strategic and societal value. The phenomenon of Open data is on the rise and transforming the fundamental nature of how many industries, companies and governments connect with each other and the end-users of products and services — from increased customer-centric innovations, to winning political campaigns, and managing public health concerns. Open data holds the promise of greater transparency, greater accountability and empowerment of stakeholders. Yet curating and publicly sharing data can be difficult, requires substantive investments in knowledge infrastructures and incentives to do so are not well understood. Who is driving and enabling the open data movement? What motivates organizations to release data and how are they using it to create value? What are the current challenges and how are they being mitigated? What are the decision-frames adopted for sharing data? What are the possible applications and lessons to be learnt from current practices? What is the role of organisational ingredients and culture as a catalyst for adopting and facilitating open data practices? What is the possible impact of semantic web application? By exploring the multiple dimensions of open data and the interplay of economic utility, governance, societal values of fairness and trust, this volume seeks to entice readers by providing evidence-based answers to these questions, among others. Readers are tempted to a progressively

revealing and enlightening journey from the conceptualisation to cultural proliferation of the latest trends in knowledge management: open data. *Digital Innovation: Harnessing the Value of Open Data* draws on practical experiences, bringing together widely distributed and latest knowledge of open data practices as case studies from researchers, academics, industry leaders, policy advisors and practitioners. In exploring the economics and technology paradigms, data governance and management practices of digital-centric private and public organizations, this volume sheds light on why there exists a need to embrace open data, what is needed to optimize the value of open data in driving digital innovation and how it is being currently conceived. The book draws a thought-provoking conclusion on open data as a purpose-driven phenomenon, with its disparate applications in a world of where global convergence on information sharing, storing and management are increasingly becoming a norm.

Related Link(s) This book intends to provide the reader with a comprehensive knowledge of the latest developments within the Linked Open Data (LOD) framework and the benefits of supported systems. The book covers the entire spectrum of “Linked Open Data - Applications, Trends and Future Developments” with six chapters. Each of the chapters provides an all-inclusive conceptualization of the LOD concepts, methodological approaches, case studies, and the main applications both in theory and practice. This book is a reference and educational book targeted to data scientists, software developers, semantic web engineers, information system designers, process managers, teachers, and researchers, and general consumers in application of LOD methods within various contexts. This book offers a cross-national comparison of open data policies in Estonia and Kazakhstan. By analyzing a broad range of open data-driven projects and startups in both countries, it reveals the potential that open data phenomena hold with regard to promoting public sector innovations. The book addresses various political and socioeconomic contexts in these two transitional societies, and reviews the strategies and tactics adopted by policymakers and stakeholders to identify drivers of and obstacles to the implementation of open data innovations. Given its scope, the book will appeal to scholars, policymakers, e-government practitioners and open data entrepreneurs interested in implementing and evaluating open data-driven public sector projects. In this practical book/disk package, systems programmers will be introduced to everything they need to know to write consistent Windows gateway applications that communicate readily with any ODBC data source in a client/server environment. Presented in tutorial format, the book contains extensive examples and the disk contains all the source code in C. This book constitutes the thoroughly refereed proceedings of the Third International Conference on Data Technologies

and Applications, DATA 2014, held in Vienna, Austria, in August 2014. The 12 revised full papers were carefully reviewed and selected from 87 submissions. The papers deal with the following topics: databases, data warehousing, data mining, data management, data security, knowledge and information systems and technologies; advanced application of data. The *Social Dynamics of Open Data* is a collection of peer reviewed papers presented at the 2nd Open Data Research Symposium (ODRS) held in Madrid, Spain, on 5 October 2016. Research is critical to developing a more rigorous and fine-combed analysis not only of why open data is valuable, but how it is valuable and under what specific conditions. The objective of the Open Data Research Symposium and the subsequent collection of chapters published here is to build such a stronger evidence base. This base is essential to understanding what open data's impacts have been to date, and how positive impacts can be enabled and amplified.

Consequently, common to the majority of chapters in this collection is the attempt by the authors to draw on existing scientific theories, and to apply them to open data to better explain the socially embedded dynamics that account for open data's successes and failures in contributing to a more equitable and just society. * The only standard size JDBC "cookbook" in market with clear specification of problems and ready-to-be-used working code solutions (in a cut-and-paste fashion) that work for at least two leading databases such as MySQL and Oracle. • Most existing JDBC-related books provide only generic solutions, which might not work on any vendor's database. This book shows the importance of "vendor" factor for solving JDBC problems. • Complete coverage of database and result set "metadata" (which is missing from most JDBC books). This book relies on the conceptual model of Open Government (OG), focusing on transparency and, concretely, in open data initiatives at the local government context with the aim of improving participation and collaboration. Most Open Government models are centered on three pillars: transparency, participation and collaboration. Transparency is a crucial ingredient of OG and, applied to data openness means to ensure that the data are well known, comprehensible, easily accessible and open to all. new governance models based on different open data models have not been proposed up to now. The chapter authors seek to contribute recent research to the discussion on governance models of open data initiatives to support Open Governments with the aim of creating public value. It includes both theoretical and empirical studies on governments models in open data initiatives. This book combines theoretical and practical knowledge about key actors and driving forces that help to initiate and advance open data governance. Using Finland and Sweden as case studies, it sheds light on the roles of key actors in the open data movement, enabling researchers to understand the key

operational elements of data-driven governance. Examining the most salient manifestations of related networking activities, the motivations of stakeholders, and the political and socioeconomic readiness of the public, private and civic sectors to advance such policies, it will appeal to e-government experts, policymakers and political scientists, as well as academics and students of public administration, public policy, and open data governance. This report provides an overview of the state of open data policies across OECD member and partner countries, based on data collected through the OECD Open Government Data survey (2013, 2014, 2016), country reviews and comparative analysis. This book constitutes the refereed conference proceedings of the 14th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2015, held in Delft, The Netherlands, in October 2015. The 40 revised full papers presented together with 1 keynote panel were carefully reviewed and selected from 65 submissions. They are organized in the following topical sections: adoption; big and open data; e-business, e-services,, and e-society; and witness workshop. The idea of a knowledge society has been raised over the last two decades but the transition to such a society has not been realized up to the present time, and discussion about a knowledge society has largely focused on a knowledge economy and information society rather than a mobilization to a knowledge society. These debates have, however, taken place before the rise of open data and big data and the development of an open data movement. The book considers the role of the open data movement in fostering transformation to a knowledge society. The characteristics of the open data movement include the strong conviction of the value of open data for society, attention to the institutional aspects of making data open in an inclusive way, and a practical focus on the technological infrastructure that are key in mobilizing a knowledge society. At the heart of any mobilization is an emerging open data ecosystem and new ways of producing and using data - whether 'born digital' data, digitized data, or big data - and how that data, when made openly available, can be used in a knowledgeable way by societal actors. Management of IoT Open Data Projects in Smart Cities demonstrates a key project management methodology for the implementation of Smart Cities projects: Principles and Regulations for Smart Cities (PaRSC). This methodology adopts a basis in classic Scrum soft management methods with carefully considered expansions. These include design principals for high-level architecture design and recommendations for design at the level of project teams. This approach enables the deployment of rule-based linguistic models for IoT project management, supporting the design of high-level architecture and providing rules for Scrum Smart Cities team. After reading this book, the reader will have a thorough grounding in IoT nodes

and methods of their design, the acquisition and use of open data, and the use of project management methods to collect open data and build business models based on them. Presents a unified method for smart urban interventions based on the adjustment of Scrum to the complexity of smart city projects Establishes a key model for intelligent systems verification in Smart Cities projects Demonstrates how practitioners can gain from the adoption of rule-based linguistic models It's been ten years since open data first broke onto the global stage. Over the past decade, thousands of programmes and projects around the world have worked to open data and use it to address a myriad of social and economic challenges. Meanwhile, issues related to data rights and privacy have moved to the centre of public and political discourse. As the open data movement enters a new phase in its evolution, shifting to target real-world problems and embed open data thinking into other existing or emerging communities of practice, big questions still remain. How will open data initiatives respond to new concerns about privacy, inclusion, and artificial intelligence? And what can we learn from the last decade in order to deliver impact where it is most needed? The State of Open Data brings together over 60 authors from around the world to address these questions and to take stock of the real progress made to date across sectors and around the world, uncovering the issues that will shape the future of open data in the years to come. This book discusses the latest developments in the field of open data. The opening of data by public organizations has the potential to improve the public sector, inspire business innovation, and establish transparency. With this potential comes unique challenges; these developments impact the operation of governments as well as their relationship with private sector enterprises and society. Changes at the technical, organizational, managerial, and political level are taking place, which, in turn, impact policy-making and traditional institutional structures. This book contributes to the systematic analysis and publication of cutting-edge methods, tools, and approaches for more efficient data sharing policies, practices, and further research. Topics discussed include an introduction to open data, the open data landscape, the open data life cycle, open data policies, organizational issues, interoperability, infrastructure, business models, open data portal evaluation, and research directions, best practices, and guidelines. Written to address different perspectives, this book will be of equal interest to students and researchers, ICT industry staff, practitioners, policy makers and public servants. ASP.NET 2.0 Programming: Problem Design Solution is aimed at describing, designing, and implementing a site much like the ones you're probably working on or will be soon, while taking the opportunity to introduce and explain many of the new features that the new great ASP.NET 2.0 framework offers. Difficult problems are addressed

head-on so you'll be ready for most of the problems you'll typically face when writing a modern website, and have one or more solutions ready for them. Unlike many other ASP.NET books that show examples for individual pages or features, the example in this book is an integrated end-to-end site (written in C#). The entire book and site has been written specifically for ASP.NET 2.0, to use the ASP.NET 2.0 features wherever they make sense. The end-result is a website which features a layout with user-selectable themes, a membership system, a content management system for publishing and syndicating articles and photos, polls, mailing lists, forums, an e-commerce store with support for real-time credit card processing, homepage personalization, and localization. The book leads the reader through development of a site with: Account registration, personalization and theming News and events, organized into categories Opinion polls Newsletter Forums E-commerce store with shopping cart and order management Localization Administration of a site will be covered including: Full online back-end administrative section, to manage practically all data from an intuitive user interface Site deployment In building these site features, you'll learn these new ASP.NET 2.0 features: Master pages Theming Personalization & Web parts Membership & Profile modules Personalization The new server-side UI controls such as GridView, DetailsView, FormView, Wizard, MultiView, the new xxxDataSource and navigation controls, among others. The new compilation mode and deployment modes The new framework for instrumenting the site, as well as handling & logging exceptions The new ADO.NET 2.0 features (e.g. caching with database dependency) The new classes for easy distributed transactions Management This book is also available as part of the 5-book ASP.NET 2.0 Wrox Box (ISBN: 0-470-11757-5). This 5-book set includes: Professional ASP.NET 2.0 Special Edition (ISBN: 0-470-04178-1) ASP.NET 2.0 Website Programming: Problem - Design - Solution (ISBN: 0764584642) Professional ASP.NET 2.0 Security, Membership, and Role Management (ISBN: 0764596985) Professional ASP.NET 2.0 Server Control and Component Development (ISBN: 0471793507) ASP.NET 2.0 MVP Hacks and Tips (ISBN: 0764597663) CD-ROM with more than 1000 pages of bonus chapters from 15 other .NET 2.0 and SQL Server(TM) 2005 Wrox books DVD with 180-day trial version of Microsoft(r) Visual Studio(r) 2005 Professional Edition Today the world's largest economies and corporations trade in data and its products to generate value in new disruptive markets. Within these markets vast streams of data are often inaccessible or untapped and controlled by powerful monopolies. Counter to this exclusive use of data is a promising world-wide "open-data" movement, promoting freely accessible information to share, reuse and redistribute. The provision and application of open data has enormous potential to transform exclusive,

technocratic “smart cities” into inclusive and responsive “open-cities”. This book argues that those who contribute urban data should benefit from its production. Like the city itself, the information landscape is a public asset produced through collective effort, attention, and resources. People produce data through their engagement with the city, creating digital footprints through social media, mobility applications, and city sensors. By opening up data there is potential to generate greater value by supporting unforeseen collaborations, spontaneous urban innovations and solutions, and improved decision-making insights. Yet achieving more open cities is made challenging by conflicting desires for urban anonymity, sociability, privacy and transparency. This book engages with these issues through a variety of critical perspectives, and presents strategies, tools and case studies that enable this transformation. 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. Up-to-date, comprehensive coverage of the Oracle database and business intelligence tools Written by a team of Oracle insiders, this authoritative book provides you with the most current coverage of the Oracle data warehousing platform as well as the full suite of business intelligence tools. You'll learn how to leverage Oracle features and how those features can be used to provide solutions to a variety of needs and demands. Plus, you'll get valuable tips and insight based on the authors' real-world experiences and their own implementations. Avoid many common pitfalls while learning best practices for: Leveraging Oracle technologies to design, build, and manage data warehouses Integrating specific database and business intelligence solutions from other vendors Using the new suite of Oracle business intelligence tools to analyze data for marketing, sales, and more Handling

typical data warehouse performance challenges Uncovering initiatives by your business community, security business sponsorship, project staffing, and managing risk Making diverse data in linguistics and the language sciences open, distributed, and accessible: perspectives from language/language acquisition researchers and technical LOD (linked open data) researchers. This volume examines the challenges inherent in making diverse data in linguistics and the language sciences open, distributed, integrated, and accessible, thus fostering wide data sharing and collaboration. It is unique in integrating the perspectives of language researchers and technical LOD (linked open data) researchers. Reporting on both active research needs in the field of language acquisition and technical advances in the development of data interoperability, the book demonstrates the advantages of an international infrastructure for scholarship in the field of language sciences. With contributions by researchers who produce complex data content and scholars involved in both the technology and the conceptual foundations of LLOD (linguistics linked open data), the book focuses on the area of language acquisition because it involves complex and diverse data sets, cross-linguistic analyses, and urgent collaborative research. The contributors discuss a variety of research methods, resources, and infrastructures. Contributors Isabelle Barrière, Nan Bernstein Ratner, Steven Bird, Maria Blume, Ted Caldwell, Christian Chiarcos, Cristina Dye, Suzanne Flynn, Claire Foley, Nancy Ide, Carissa Kang, D. Terence Langendoen, Barbara Lust, Brian MacWhinney, Jonathan Masci, Steven Moran, Antonio Pareja-Lora, Jim Reidy, Oya Y. Rieger, Gary F. Simons, Thorsten Trippel, Kara Warburton, Sue Ellen Wright, Claus Zinn The world has become digital and technological advances have multiplied circuits with access to data, their processing and their diffusion. New technologies have now reached a certain maturity. Data are available to everyone, anywhere on the planet. The number of Internet users in 2014 was 2.9 billion or 41% of the world population. The need for knowledge is becoming apparent in order to understand this multitude of data. We must educate, inform and train the masses. The development of related technologies, such as the advent of the Internet, social networks, "cloud-computing" (digital factories), has increased the available volumes of data. Currently, each individual creates, consumes, uses digital information: more than 3.4 million e-mails are sent worldwide every second, or 107,000 billion annually with 14,600 e-mails per year per person, but more than 70% are spam. Billions of pieces of content are shared on social networks such as Facebook, more than 2.46 million every minute. We spend more than 4.8 hours a day on the Internet using a computer, and 2.1 hours using a mobile. Data, this new ethereal manna from heaven, is produced in real time. It comes in a continuous stream from

a multitude of sources which are generally heterogeneous. This accumulation of data of all types (audio, video, files, photos, etc.) generates new activities, the aim of which is to analyze this enormous mass of information. It is then necessary to adapt and try new approaches, new methods, new knowledge and new ways of working, resulting in new properties and new challenges since SEO logic must be created and implemented. At company level, this mass of data is difficult to manage. Its interpretation is primarily a challenge. This impacts those who are there to "manipulate" the mass and requires a specific infrastructure for creation, storage, processing, analysis and recovery. The biggest challenge lies in "the valuing of data" available in quantity, diversity and access speed. Linked Open Data (LOD) is a pragmatic approach for realizing the Semantic Web vision of making the Web a global, distributed, semantics-based information system. This book presents an overview on the results of the research project "LOD2 -- Creating Knowledge out of Interlinked Data". LOD2 is a large-scale integrating project co-funded by the European Commission within the FP7 Information and Communication Technologies Work Program. Commencing in September 2010, this 4-year project comprised leading Linked Open Data research groups, companies, and service providers from across 11 European countries and South Korea. The aim of this project was to advance the state-of-the-art in research and development in four key areas relevant for Linked Data, namely 1. RDF data management; 2. the extraction, creation, and enrichment of structured RDF data; 3. the interlinking and fusion of Linked Data from different sources and 4. the authoring, exploration and visualization of Linked Data. The two-volume set LNCS 9981 and 9982 constitutes the refereed proceedings of the 15th International Semantic Web Conference, ISWC 2016, which was held in Kobe, Japan, in October 2016. The 75 full papers presented in these proceedings were carefully reviewed and selected from 326 submissions. The International Semantic Web Conference is the premier forum for Semantic Web research, where cutting edge scientific results and technological innovations are presented, where problems and solutions are discussed, and where the future of this vision is being developed. It brings together specialists in fields such as artificial intelligence, databases, social networks, distributed computing, Web engineering, information systems, human-computer interaction, natural language processing, and the social sciences. The Research Track solicited novel and significant research contributions addressing theoretical, analytical, empirical, and practical aspects of the Semantic Web. The Applications Track solicited submissions exploring the benefits and challenges of applying semantic technologies in concrete, practical applications, in contexts ranging from industry to government and science.

The newly introduced Resources Track sought submissions providing a concise and clear description of a resource and its (expected) usage. Traditional resources include ontologies, vocabularies, datasets, benchmarks and replication studies, services and software. Besides more established types of resources, the track solicited submissions of new types of resources such as ontology design patterns, crowdsourcing task designs, workflows, methodologies, and protocols and measures. The main objectives of this book are to expose key aspects that have a relevance when dealing with open data viewed from different perspectives and to provide appealing examples of how open data is implemented worldwide. The concept of open data as we know it today is the result of many different initiatives, both of a legislative and non-legislative nature, and promoted by a wide range of actors. Numerous regulatory antecedents to foster the concept of open data and embed it in national and international policy agendas have been undertaken on both sides of the Atlantic, as well as at a supranational level. The book highlights a number of the efforts made to promote open data in Europe, Asia and the United States. In addition to new insights, practical guidance and multiple disciplinary perspectives on open data, the book also addresses the transformation of current developments towards open data, which may be referred to as the democratisation of data. This book will support open data practitioners as well as open data scholars in their endeavours to promote open data implementation and research. Bastiaan van Loenen is associate professor and director of the Knowledge Centre Open Data at the Faculty of Architecture and The Built Environment of Delft University of Technology in the Netherlands, as is Glenn Vancauwenberghe, who is a post-doctoral researcher, and Joep Crompvoets is a professor at the Public Governance Institute of the KU Leuven in Belgium. Mitigate the risks involved in migrating away from a proprietary database platform toward MariaDB's open source database engine. This book will help you assess the risks and the work involved, and ensure a successful migration. Migrating to MariaDB describes the process and lessons learned during a migration from a proprietary database management engine to the MariaDB open source solution. The book discusses the drivers for making the decision and change, walking you through all aspects of the process from evaluating the licensing, navigating the pitfalls and hurdles of a migration, through to final implementation on the new platform. The book highlights the cost-effectiveness of MariaDB and how the licensing worries are simplified in comparison to running on a proprietary platform. You'll learn to do your own risk assessment, to identify database and application code that may need to be modified or re-implemented, and to identify MariaDB features to provide the security and failover protection needed by corporate customers.

Let the author's experience in migrating a financial firm to MariaDB inform your own efforts, helping you to develop a road map for both technical and political success within your own organization as you migrate away from proprietary lock-in toward MariaDB's open source solution. What You'll Learn Evaluate and compare licensing costs between proprietary databases and MariaDB Perform a proper risk assessment to inform your planning and execution of the migration Build a migration road map from the book's example that is specific to your situation Make needed application changes and migrate data to the MariaDB open source database engine Who This Book Is For Technical professionals (including database administrators, programmers, and technical management) who are interested in migrating away from a proprietary database platform toward MariaDB's open source database engine and need to assess the risks and the work involved Recent years have witnessed considerable speculation about the potential of open data to bring about wide-scale transformation. The bulk of existing evidence about the impact of open data, however, focuses on high-income countries. Much less is known about open data's role and value in low- and middle-income countries, and more generally about its possible contributions to economic and social development. Open Data for Developing Economies features in-depth case studies on how open data is having an impact across the developing world—from an agriculture initiative in Colombia to data-driven healthcare projects in Uganda and South Africa to crisis response in Nepal. The analysis built on these case studies aims to create actionable intelligence regarding: (a) the conditions under which open data is most (and least) effective in development, presented in the form of a Periodic Table of Open Data; (b) strategies to maximize the positive contributions of open data to development; and (c) the means for limiting open data's harms on developing countries. This volume comprises a collection of papers presented at an Open Data in Education Seminar and the LILE workshops during 2014-2015. In the first part of the book, two chapters give different perspectives on the current use of linked and open data in education, including the use of technology and the topics that are being covered. The second part of the book focuses on the specific, practical applications that are being put in place to exploit open and linked data in education today. The goal of this book is to provide a snapshot of current activities, and to share and disseminate the growing collective experience on open and linked data in education. This volume brings together research results, studies, and practical endeavors from initiatives spread across several countries around the world. These initiatives are laying the foundations of open and linked data in the education movement and leading the way through innovative applications. Your all-in-one resource for using Pentaho with MySQL for Business Intelligence and Data

Warehousing Open-source Pentaho provides business intelligence (BI) and data warehousing solutions at a fraction of the cost of proprietary solutions. Now you can take advantage of Pentaho for your business needs with this practical guide written by two major participants in the Pentaho community. The book covers all components of the Pentaho BI Suite. You'll learn to install, use, and maintain Pentaho and find plenty of background discussion that will bring you thoroughly up to speed on BI and Pentaho concepts. Of all available open source BI products, Pentaho offers the most comprehensive toolset and is the fastest growing open source product suite. Explains how to build and load a data warehouse with Pentaho Kettle for data integration/ETL, manually create JFree (Pentaho reporting services) reports using direct SQL queries, and create Mondrian (Pentaho analysis services) cubes and attach them to a JPivot cube browser. Review deploying reports, cubes and metadata to the Pentaho platform in order to distribute BI solutions to end-users. Shows how to set up scheduling, subscription and automatic distribution. The companion Web site provides complete source code examples, sample data, and links to related resources. This work provides an innovative look at the use of open data for extracting information to detect and prevent crime, and also explores the link between terrorism and organized crime. In counter-terrorism and other forms of crime prevention, foresight about potential threats is vitally important and this information is increasingly available via electronic data sources such as social media communications. However, the amount and quality of these sources is varied, and researchers and law enforcement need guidance about when and how to extract useful information from them. The emergence of these crime threats, such as communication between organized crime networks and radicalization towards terrorism, is driven by a combination of political, economic, social, technological, legal and environmental factors. The contributions to this volume represent a major step by researchers to systematically collect, filter, interpret, and use the information available. For the purposes of this book, the only data sources used are publicly available sources which can be accessed legally and ethically. This work will be of interest to researchers in criminology and criminal justice, particularly in police science, organized crime, counter-terrorism and crime science. It will also be of interest to those in related fields such as applications of computer science and data mining, public policy, and business intelligence. This volume contains the lecture notes of the 13th Reasoning Web Summer School, RW 2017, held in London, UK, in July 2017. In 2017, the theme of the school was "Semantic Interoperability on the Web", which encompasses subjects such as data integration, open data management, reasoning over linked data, database to ontology mapping, query answering over ontologies, hybrid reasoning with rules and

ontologies, and ontology-based dynamic systems. The papers of this volume focus on these topics and also address foundational reasoning techniques used in answer set programming and ontologies. The exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science, engineering, and communication. Computing plays a critical role in advancing research across almost every scientific discipline. *Computation for Humanity: Information Technology to Advance Society* is a guide for the creation of services, products, and tools that facilitate, support, and enhance progress of humanity toward more sustainable life. This book: Provides a deep understanding of the practical applications of computation to solve human-machine problems Delivers insight into theoretical approaches in an accessible manner Provides a comprehensive overview of computational science and engineering applications in selected disciplines Crosses the boundaries between different domains and shows how they interrelate and complement one another Focuses on grand challenges and issues that matter for the future of humanity Shows different perspectives of computational thinking, understanding, and reasoning Provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines Takes a step back to provide a human-related abstraction level that is not ultimately seen in pure technological elaborations/collections The editors provide a collection of numerous computation-related projects that form a foundation from which to cross-pollinate between different disciplines and further extensive collaboration. They present a clear and profound understanding of computing in today's world, and provide fundamental solutions to some of the most pertinent humanity-related problems. Packed with practical, freely available backup and recovery solutions for Unix, Linux, Windows, and Mac OS X systems -- as well as various databases -- this new guide is a complete overhaul of *Unix Backup & Recovery* by the same author, now revised and expanded with over 75% new material. *Backup & Recovery* starts with a complete overview of backup philosophy and design, including the basic backup utilities of tar, dump, cpio, ntbackup, ditto, and rsync. It then explains several open source backup products that automate backups using those utilities, including AMANDA, Bacula, BackupPC, rdiff-backup, and rsnapshot. *Backup & Recovery* then explains how to perform bare metal recovery of AIX, HP-UX, Linux, Mac OS, Solaris, VMWare, & Windows systems using freely-available utilities. The book also provides overviews of the current state of the commercial backup software and hardware market, including overviews of CDP, Data De-duplication, D2D2T, and VTL technology. Finally, it covers how to automate the backups of DB2, Exchange, MySQL, Oracle, PostgreSQL, SQL-Server, and Sybase databases - without purchasing a

commercial backup product to do so. For environments of all sizes and budgets, this unique book shows you how to ensure data protection without resorting to expensive commercial solutions. You will soon learn to: Automate the backup of popular databases without a commercial utility Perform bare metal recovery of any popular open systems platform, including your PC or laptop Utilize valuable but often unknown open source backup products Understand the state of commercial backup software, including explanations of CDP and data de-duplication software Access the current state of backup hardware, including Virtual Tape Libraries (VTLs)

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