

Data Architecture A Primer For The Data Scientist Big Data Data Warehouse And Data Vault

Discover how you can migrate a traditional on-premise SQL server database to a cloud-based solution with Microsoft Azure. Built with database administrators in mind, this book emulates different scenarios you might come across while working with large, complex SQL database migrations and provides solutions for effectively managing the migrated databases. Key Features Implement backup, restore, and recovery of Azure SQL databases Create shards and elastic pools to scale Azure SQL databases Automate common management tasks with PowerShell Implement over 40 practical activities and exercises across 24 topics to reinforce your learning Book Description As the cloud version of SQL Server, Azure SQL Database differs in key ways when it comes to management, maintenance, and administration. It's important to know how to administer SQL Database to fully benefit from all of the features and functionality that it provides. This book addresses important aspects of an Azure SQL Database instance such as migration, backup restorations, pricing policies, security, scalability, monitoring, performance optimization, high availability, and disaster recovery. It is a complete guide for database administrators, and ideal for those who are planning to migrate from on premise SQL Server database to an Azure SQL Server database. What you will learn

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Learn how to provision a new database or migrate an existing on-premise solution
Understand how to backup, restore, secure, and scale your own Azure SQL Database
Optimize the performance by monitoring and tuning your cloud-based SQL instance
Implement high availability and disaster recovery procedures with SQL Database
Develop a roadmap for your own scalable cloud solution with Azure SQL Database
Who this book is for This book is ideal for database administrators, database developers, or application developers who are interested in developing or migrating existing applications with Azure SQL Database. Prior experience of working with an on-premise SQL Server deployment and brief knowledge of PowerShell and C# are recommended prerequisites.

Data Architecture: A Primer for the Data ScientistBig Data, Data Warehouse and Data VaultAcademic Press

Data Architecture: A Primer for the Data Scientist: Big Data, Data Warehouse and Data Vault, Second Edition addresses how Big Data fits within the existing information infrastructure and data warehousing systems. This is an essential topic as researchers and engineers increasingly need to deal with large and complex sets of data. Until data is gathered and placed into an existing framework or architecture, it cannot be used to its full potential. Drawing upon years of practical experience and using numerous examples and case studies from across industries, the authors explain where Big Data fits, giving data scientists the necessary context for how pieces of the puzzle should fit

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together. Reviews the exponential growth of Big Data integration and applications across industries - from healthcare to finance Places new emphasis on end state architecture as a lens for understanding the architecture of Big Data Explains how Big Data fits within an existing systems environment, as well as the value of data transformation and redundancy Includes new chapters on data lakes, ponds, landing zones, IoT, edge computing, data modeling and taxonomies

The AWS Certified Solutions Architect Professional exam validates advanced technical skills and experience in designing distributed applications and systems on the AWS platform. Example concepts you should understand for this exam include: - Designing and deploying dynamically scalable, highly available, fault-tolerant, and reliable applications on AWS - Selecting appropriate AWS services to design and deploy an application based on given requirements - Migrating complex, multi-tier applications on AWS - Designing and deploying enterprise-wide scalable operations on AWS - Implementing cost-control strategies - Recommended AWS Knowledge This book contains Free Resources. Preview the book & see what's inside.

This book constitutes the refereed proceedings of the 38th International Conference on Conceptual Modeling, ER 2019, held in Salvador, Brazil, in November 2019. The 22 full and 22 short papers presented together with 4 keynotes were carefully reviewed and selected from 142 submissions. This events covers a wide range of topics, covered in the following sessions: conceptual modeling, big data technology I, process modeling

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and analysis, query approaches, big data technology II, domain specific models I, domain specific models II, decision making, complex systems modeling, model unification, big data technology III, and requirements modeling.

This thoroughly revised second edition of "Big Data" introduces application of big data to various domains from farming to healthcare to managing traffic and many more. The book takes a big leap with introduction of three new primer on Data Modeling and Management, Artificial Intelligence and careers in Data Science. Important topics like Big Data Programming languages are simplified and areas like MongoDB have been expanded. The key concepts and technological developments are explained with illustrations. This simple and easy to understand book is aimed for the final year students of Computer Science, professionals and big data enthusiasts. With a series of pictures at the beginning of every chapter from nature and human interaction with it, the book tells a parallel story about life cycle and the many aspects of big data applications in primary education, water resource management, precision farming, finance, etc. Few Highlights: • A new chapter on Data Science careers and job roles • A primer on Artificial Intelligence, and its advantages and threats • A primer on Data Modeling and Management • New section on General Data Protection Rights (GDPR) regime in Europe

The authors present a fresh, pragmatic approach to the study of software architecture. This edition contains a series of chapters that introduce and develop an understanding

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of software architecture by means of careful explanation and elaboration of a range of key concepts. (Computer Books)

The classic programming guide for architects and clients—fully updated and revised Architectural programming is a team effort that requires close cooperation between architects and their clients. Problem Seeking, Fourth Edition lays out a five-step procedure that teams can follow when programming any building or series of buildings, from a small house to a hospital complex. This simple yet comprehensive process encompasses the entire range of factors that influence the design of buildings. This new edition of the only programming guide appropriate for both architect and client features new ways of thinking about programming, new strategies for effective group action, and new settings in which to explore programming concepts. Supplemented with more than 120 helpful illustrations and diagrams, this indispensable resource provides updated technical information and faster, easier access to explanations, examples, and tools, including: Updated building costs and their relationship to interior fit-up costs A primer on discounted cash flow analysis and net present value analysis Project statement examples organized by project phase and building type Useful techniques for data management, functional relationship analysis, and more Provides developments and research, as well as current innovative activities in data warehousing and mining, focusing on the intersection of data warehousing and business intelligence.

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DIGEST is the Digital Geographic Information Exchange Standard for interoperability and compatibility among national and multinational systems and users. It is a standard based on the Vector Product Format (VPF), used by NATO and the United States Defense Mapping Agency for capturing geographical data. Finally, there is an aid available to users of Geographical Information System (GIS) and developers of GIS technology working with DIGEST. This book was developed from a series of lectures given by Dr. Kelly Chan, recognized as a leading authority on the standard. It is specifically designed to allow the user to finally make practical use of this difficult material. Dr. Chan's work allows the user to write specific programs tailored to particular needs.

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-

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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

The implementation of Enterprise Networks or e-Networking is of paramount importance for organisations. Enterprise-wide networking would warrant that the components of information architecture are organised to harness more out of the organisation's computing power on the desktop. This would also involve establishment of networks that link the various but important subsystems of the enterprise. Our firm belief is that in order to gain a competitive edge the organisations need knowledge and sound strategy. This conviction is particularly true today, considering the pressures from international competition, environmental concerns and complicated ethical issues. This book, entitled A Manager's Primer on e-Networking, negotiates the hyper dimensions of the Internet through stories from myriad of Web sites with its fluent

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presentation and simple but chronological organisation of topics highlighting numerous opportunities and providing a solid starting point not only for inexperienced entrepreneurs and managers but anyone interested in applying information technology in the business. I sincerely hope the book will help as well many small and medium size companies and organisations to launch corporate networking successfully in order to attain their strategic objectives. Rajiv Jayashankar, Ph. D.

ASP.NET 2.0 IN SIMPLE STEPS is a book that helps you to learn ASP.NET using Visual Studio 2005. Precise and complete, with an easy to understand style, lots of examples to support the concepts, and use of practical approach in presentation are some of the features that make the book unique in itself.

This Oracle Press eBook is filled with cutting-edge security techniques for Oracle Database 12c. It covers authentication, access control, encryption, auditing, controlling SQL input, data masking, validating configuration compliance, and more. Each chapter covers a single threat area, and each security mechanism reinforces the others. Today, the world is trying to create and educate data scientists because of the phenomenon of Big Data. And everyone is looking deeply into this technology. But no one is looking at the larger architectural picture of how Big Data needs to fit within the existing systems (data warehousing systems). Taking a look at the larger picture into which Big Data fits gives the data scientist the necessary context for how pieces of the puzzle should fit together. Most references on Big Data look at only one tiny part of a much larger whole. Until data gathered can be put into an existing framework or architecture it can't be used to its full potential. Data

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Architecture a Primer for the Data Scientist addresses the larger architectural picture of how Big Data fits with the existing information infrastructure, an essential topic for the data scientist. Drawing upon years of practical experience and using numerous examples and an easy to understand framework. W.H. Inmon, and Daniel Linstedt define the importance of data architecture and how it can be used effectively to harness big data within existing systems. You'll be able to: Turn textual information into a form that can be analyzed by standard tools. Make the connection between analytics and Big Data Understand how Big Data fits within an existing systems environment Conduct analytics on repetitive and non-repetitive data Discusses the value in Big Data that is often overlooked, non-repetitive data, and why there is significant business value in using it Shows how to turn textual information into a form that can be analyzed by standard tools. Explains how Big Data fits within an existing systems environment Presents new opportunities that are afforded by the advent of Big Data Demystifies the murky waters of repetitive and non-repetitive data in Big Data Taxonomies and Textual Analytics

This primer offers transportation planners and operations managers a menu of opportunities for applying the regional Intelligent Transportation Systems (ITS) architecture to enhance planning for operations. It provides specific entry points for leveraging the regional ITS architecture in integrating operations into the planning process. This primer centers on the use of an objectives-driven, performance-based approach to planning for operations; an approach that can leverage regional ITS architectures given the approach's emphasis on operational objectives and performance measures and the architecture's use of data and services to address operational needs. Additionally, the primer leads planners and operators through

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techniques to make a regional ITS architecture relevant and more accessible to practitioner needs in planning for operations.

Initiates the Reader into the Workings of Intel's 8086 & 8088 Microprocessor. Applications for Both Professional & Amateur Alike

Organizations invest incredible amounts of time and money obtaining and then storing big data in data stores called data lakes. But how many of these organizations can actually get the data back out in a useable form? Very few can turn the data lake into an information gold mine.

Most wind up with garbage dumps. Data Lake Architecture will explain how to build a useful data lake, where data scientists and data analysts can solve business challenges and identify new business opportunities. Learn how to structure data lakes as well as analog, application, and text-based data ponds to provide maximum business value. Understand the role of the raw data pond and when to use an archival data pond. Leverage the four key ingredients for data lake success: metadata, integration mapping, context, and metaprocess. Bill Inmon opened our eyes to the architecture and benefits of a data warehouse, and now he takes us to the next level of data lake architecture.

In the information era, enormous amounts of data have become available on hand to decision makers. Big data refers to datasets that are not only big, but also high in variety and velocity, which makes them difficult to handle using traditional tools and techniques. The book covers the basic matter to understand the concept of Big Data, its architecture, challenges and applications in concise manner.

This book is a collection of chapters written by experts on various aspects of big data. The book aims to explain what big data is and how it is stored and used. The book starts from the

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fundamentals and builds up from there. It is intended to serve as a review of the state-of-the-practice in the field of big data handling. The traditional framework of relational databases can no longer provide appropriate solutions for handling big data and making it available and useful to users scattered around the globe. The study of big data covers a wide range of issues including management of heterogeneous data, big data frameworks, change management, finding patterns in data usage and evolution, data as a service, service-generated data, service management, privacy and security. All of these aspects are touched upon in this book. It also discusses big data applications in different domains. The book will prove useful to students, researchers, and practicing database and networking engineers.

This book constitutes the refereed proceedings of the Second International Conference on Digital Transformation and Global Society, DTGS 2017, held in St. Petersburg, Russia, in June 2017. The 34 revised full papers and three revised short papers presented were carefully reviewed and selected from 134 submissions. The papers are organized in topical sections on eSociety: social media analysis; eSociety: ICTs in education and science; eSociety: legal, security and usability issues; ePolity: electronic governance and electronic participation; ePolity: politics of cyberspace; eCity: urban planning and smart cities; eHealth: ICTs in public health management; eEconomy and eFinance: finance and knowledge management.

The objective of this book is to contribute to the development of the intelligent information and database systems with the essentials of current knowledge, experience and know-how. The book contains a selection of 40 chapters based on original

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research presented as posters during the 8th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2016) held on 14–16 March 2016 in Da Nang, Vietnam. The papers to some extent reflect the achievements of scientific teams from 17 countries in five continents. The volume is divided into six parts: (a) Computational Intelligence in Data Mining and Machine Learning, (b) Ontologies, Social Networks and Recommendation Systems, (c) Web Services, Cloud Computing, Security and Intelligent Internet Systems, (d) Knowledge Management and Language Processing, (e) Image, Video, Motion Analysis and Recognition, and (f) Advanced Computing Applications and Technologies. The book is an excellent resource for researchers, those working in artificial intelligence, multimedia, networks and big data technologies, as well as for students interested in computer science and other related fields.

This two volume set LNBI 10208 and LNBI 10209 constitutes the proceedings of the 5th International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2017, held in Granada, Spain, in April 2017. The 122 papers presented were carefully reviewed and selected from 309 submissions. The scope of the conference spans the following areas: advances in computational intelligence for critical care; bioinformatics for healthcare and diseases; biomedical engineering; biomedical image analysis; biomedical signal analysis; biomedicine; challenges representing large-scale biological data; computational genomics; computational proteomics; computational systems for

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modeling biological processes; data driven biology - new tools, techniques and resources; eHealth; high-throughput bioinformatic tools for genomics; oncological big data and new mathematical tools; smart sensor and sensor-network architectures; time lapse experiments and multivariate biostatistics.

Artificial Intelligence is a significant development in the technological landscape, and it is poised to be a veritable game-changer for all concerned. Given globalization and the winner-take-all market dynamics, there is a “superstar” effect at play in most markets, where a select few companies capture a lion’s share of the market, as well as the profit. Given this environment, Analytics goes from becoming a “good to have” to a “must have” if organizations are to take this opportunity to leverage the power of artificial intelligence and other adjacent technologies in an impactful manner. In this book, Priyo Chatterjee, drawing on his years of experience in the Analytics and Data Science space, takes a methodical approach to Analytics by first demonstrating why it has become so critical in “The Age of Artificial Intelligence.” Then he shows how companies can become more Analytical and, thereby, successful in deploying artificial intelligence strategies.

An Executive Guide to Data Management

Design and Deploy Highly Responsive Data-Driven Web 2.0 Applications Deliver next-generation user capabilities and client-side services in your Oracle-based Web applications by combining the powerful features of AJAX and PHP. Written by Web 2.0

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programming experts, Oracle Database AJAX & PHP Web Application Development shows you how to design faster, lighter, more responsive Web applications while reducing code support and creation time. You'll learn how to develop modular AJAX and PHP code, add dynamically updated content, and implement click-to-edit and drag-and-drop functionality. You'll also get details on incorporating cutting-edge mashup, reporting, and communication features. Build robust Web applications that utilize the latest AJAX, PHP, and modularity techniques Construct AJAX and PHP objects, controllers, iframes, and models Simplify programming with reusable modules, open-source libraries, and templates Optimize scalability, availability, performance, and security Auto-refresh Web pages and execute XML calls using the HttpRequest object Add HTML drill-down tables, DOM drag-and-drop, and click-to-edit features Retrieve data from external sources using Remote Procedure Calls and Pear-based services Solve browser navigation button, bookmarking, and history tracking issues Allow end users to customize Web pages using tracking, JSON, and mashups Facilitate client-side communication with VOIP, IM, targeted reporting, and file sharing

There's a lot of information about big data technologies, but splicing these technologies into an end-to-end enterprise data platform is a daunting task not widely covered. With this practical book, you'll learn how to build big data infrastructure both on-premises and in the cloud and successfully architect a modern data platform. Ideal for enterprise architects, IT managers, application architects, and data engineers, this book shows

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aggressiveness with which you unfold your plan is something that you understand best. This primer defines the data warehouse components and helps you decide when they can be done, in what order, and by how many people. This book is a greatly supplemented translation from Portuguese, originally published in 2015. It discusses the most appropriate ways to create databases for research on history and other humanities, including an extensive debate about the usages that historians have made of computing since the 1950s. It has four chapters: the first is dedicated to theoretical and methodical questions about the usage of databases in history; the second is about technical issues; the third presents the concept of research engineering (how to improve research in groups); the last is about the construction of databases. The author states that the use of technology in research in history and humanities should be preceded and mediated by theories and methods which deal with these disciplines and not by technical issues. The historian must know how to think "correctly" in order to use the technological tools in an autonomous way. The book provides a background, demonstrating how theory, methodology, and technique are always articulated in historical research, and will appeal to history students and researchers.

Focusing on establishing a network of distributed relational databases that use

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Distributed Relational Database Architecture (DRDA), this book demystifies how to implement a DRDA system. Includes examples of several different distributed relational database scenarios, network and DRDA concepts, VTAM considerations, and information on how to set up interactive SQL utilities.

A revision of the bestselling book that shows IT departments how to take on new challenges As technology becomes more mainstream and accessible, companies must develop new ways to use their IT resources in order to compete. In this extensive revision, IT expert Bernard Boar provides a methodology that shows readers how to use IT as a competitive business asset. He tackles the latest challenges facing IT departments over the next several years, including how to devise a complete strategy to make the department more effective and how to choose the best strategy framework for a company. Boar also shows how technologies like e-commerce, data warehousing, architectures, and Java can be used to make a business more competitive.

Why collaborative enterprise architecture? -- What is enterprise architecture -- What enterprise architects do: core activities of EA -- EA frameworks -- EA maturity models -- Foundations of collaborative EA -- Towards pragmatism: lean and agile EA -- Inviting to participation: eam 2.0 -- The next steps: taking collaborative EA forward.

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The classic programming guide for architects and clients—fully updated and revised Architectural programming is a team effort that requires close cooperation between architects and their clients. Problem Seeking, Fifth Edition lays out a five-step procedure that teams can follow when programming any building or series of buildings, from a small house to a hospital complex. This simple yet comprehensive process encompasses the entire range of factors that influence the design of buildings. This Fifth Edition of the only programming guide appropriate for both architect and client features new information related to BIM, integrated practice, and sustainable design when programming. Supplemented with more than 120 illustrations and diagrams updated for this edition, this indispensable resource provides revised technical information and faster, easier access to explanations, examples, and tools, including: Guidance on incorporating the latest technological tools when programming A primer on discounted cash flow analysis and net present value analysis Project statement examples organized by project phase and building type Useful techniques for data management, functional relationship analysis, and more

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