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# Next Generation Databases

NoSQL, NewSQL, and Big Data

WHAT EVERY PROFESSIONAL NEEDS TO  
KNOW ABOUT FUTURE OF DATABASES  
IN A WORLD OF NOSQL AND BIG DATA

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# Next Generation Databases Nosqland Big Data

**Amit Phaltankar,Juned Ahsan,Michael  
Harrison,Liviu Nedov**



## **Next Generation Databases Nosqland Big Data:**

Next Generation Databases Guy Harrison, 2015-12-30 It is not easy to find such a generous book on big data and databases. Fortunately, this book is the one. Feng Yu Computing Reviews June 28 2016 This is a book for enterprise architects, database administrators, and developers who need to understand the latest developments in database technologies. It is the book to help you choose the correct database technology at a time when concepts such as Big Data, NoSQL, and NewSQL are making what used to be an easy choice into a complex decision with significant implications. The relational database (RDBMS) model completely dominated database technology for over 20 years. Today, this one-size-fits-all stability has been disrupted by a relatively recent explosion of new database technologies. These paradigm-busting technologies are powering the Big Data and NoSQL revolutions, as well as forcing fundamental changes in databases across the board. Deciding to use a relational database was once truly a no-brainer, and the various commercial relational databases competed on price, performance, reliability, and ease of use rather than on fundamental architectures. Today, we are faced with choices between radically different database technologies. Choosing the right database today is a complex undertaking with serious economic and technological consequences. **Next Generation Databases** demystifies today's new database technologies. The book describes what each technology was designed to solve. It shows how each technology can be used to solve real-world application and business problems. Most importantly, this book highlights the architectural differences between technologies that are the critical factors to consider when choosing a database platform for new and upcoming projects. Introduces the new technologies that have revolutionized the database landscape. Describes how each technology can be used to solve specific application or business challenges. Reviews the most popular new-wave databases and how they use these new database technologies.

**Innovating and Integrating Emerging Technologies** Hamed Taherdoost, 2025-07-01 This book explores all aspects of innovation, including funding, business strategies, and real-world uses for game-changing technologies like blockchain, IoT, AI, and big data. Learn about the fundamentals of cloud computing, explore the moral implications of virtual reality, comprehend the complexities of quantum computing, and explore the domains of robotics, 3D printing, and 6G technology. The book covers each technology's foundations, uses, and future developments. The author makes complicated subjects easier to understand by using reader-friendly language, tables, and graphics. The intricacies of these technologies will become clear to readers, enabling them to capitalize on innovation's promise for both career and personal growth. If support lists. Explores emerging technologies from blockchain and AI to 3D printing and smart cities. If support lists. Integrates business ethics, social impacts, and regulatory considerations into discussions of innovation. If support lists. Combines practical experience with trustworthy and valuable insights for readers at all levels of expertise. Distributed Computing and Artificial Intelligence, Special Sessions I, 21st International Conference Rashid Mehmood, Guillermo Hernández, Isabel Praça, Jaroslaw Wikarek, Roussanka Loukanova, Arsénio Monteiro dos Reis, Antonio Skarmeta, Eleonora

Lombardi, 2025-03-10 This book presents applications of innovative techniques for studying and solving complex problems in artificial intelligence and computing This edition brings together experience current work and promising future trends related to distributed computing artificial intelligence and their applications to provide efficient solutions to real world problems Given the conference's success this edition features twelve special sessions covering a wide range of topics related to AI and other areas of interest These sessions were carefully curated to address the latest advancements and challenges in fields such as machine learning neural networks IoT big data and blockchain among others The accepted papers from these sessions are presented in two volumes showcasing the diverse and innovative research being conducted in these domains This is the first volume which includes the sessions Artificial intelligence for enhanced cyber security AI4CS AI driven methods for multimodal networks and processes modeling AIMPM computational linguistics information reasoning and AI CLIRAI novel technologies for smart industry and mobility SmartMob intelligent Internet of things security and privacy WISP and revolutionizing carbon farming by nature based business models and emerging innovations in the field of artificial intelligence satellite and green technologies INNO4CFIS each focusing on specific themes within the broader scope of AI and its applications The DCAI 24 technical program has selected 74 papers in special sessions and as in past editions it will be special issues in ranked journals This symposium is organized by the University of Salamanca Spain The authors would like to thank all the contributing authors the program committee members national associations AEPIA APPIA LASI and the sponsors AIR Institute

**Bridging Relational and NoSQL Databases** Gaspar, Drazena, Coric, Ivica, 2017-11-30 Relational databases have been predominant for many years and are used throughout various industries The current system faces challenges related to size and variety of data thus the NoSQL databases emerged By joining these two database models there is room for crucial developments in the field of computer science Bridging Relational and NoSQL Databases is an innovative source of academic content on the convergence process between databases and describes key features of the next database generation Featuring coverage on a wide variety of topics and perspectives such as BASE approach CAP theorem and hybrid and native solutions this publication is ideally designed for professionals and researchers interested in the features and collaboration of relational and NoSQL databases

Benchmarking, Measuring, and Optimizing Chen Zheng, Jianfeng Zhan, 2019-10-15 This book constitutes the refereed proceedings of the First International Symposium on Benchmarking Measuring and Optimization Bench 2018 held in Seattle WA USA in December 2018 The 20 full papers presented were carefully reviewed and selected from 51 submissions The papers are organized in topical sections named AI Benchmarking Cloud Big Data Modelling and Prediction and Algorithm and Implementations

**Information Technology - New Generations** Shahram Latifi, 2017-07-15 This volume presents a collection of peer reviewed scientific articles from the 14th International Conference on Information Technology New Generations held at the University of Nevada at Las Vegas on April 10 12 at Tuscany Suites Hotel in Las Vegas The Book of Chapters addresses critical areas of information technology

including web technology communications computing architectures software engineering security and data mining

**Comprehensive Geographic Information Systems** ,2017-07-21 Geographical Information Systems Three Volume Set is a computer system used to capture store analyze and display information related to positions on the Earth s surface It has the ability to show multiple types of information on multiple geographical locations in a single map enabling users to assess patterns and relationships between different information points a crucial component for multiple aspects of modern life and industry This 3 volumes reference provides an up to date account of this growing discipline through in depth reviews authored by leading experts in the field VOLUME EDITORSThomas J CovaThe University of Utah Salt Lake City UT United StatesMing Hsiang TsouSan Diego State University San Diego CA United StatesGeorg BarethUniversity of Cologne Cologne GermanyChunqiao SongUniversity of California Los Angeles CA United StatesYan SongUniversity of North Carolina at Chapel Hill Chapel Hill NC United StatesKai CaoNational University of Singapore SingaporeElisabete A SilvaUniversity of Cambridge Cambridge United Kingdom Covers a rapidly expanding discipline providing readers with a detailed overview of all aspects of geographic information systems principles and applications Emphasizes the practical socioeconomic applications of GIS Provides readers with a reliable one stop comprehensive guide saving them time in searching for the information they need from different sources *A Deep Dive into NoSQL Databases: The Use Cases and Applications* ,2018-04-20 A Deep Dive into NoSQL Databases The Use Cases and Applications Volume 109 the latest release in the Advances in Computers series first published in 1960 presents detailed coverage of innovations in computer hardware software theory design and applications In addition it provides contributors with a medium in which they can explore their subjects in greater depth and breadth This update includes sections on NoSQL and NewSQL databases for big data analytics and distributed computing NewSQL databases and scalable in memory analytics NoSQL web crawler application NoSQL Security a Comparative Study of different In Memory No New SQL Databases NoSQL Hands On 4 NoSQLs the Hadoop Ecosystem and more Provides a very comprehensive yet compact book on the popular domain of NoSQL databases for IT professionals practitioners and professors Articulates and accentuates big data analytics and how it gets simplified and streamlined by NoSQL database systems Sets a stimulating foundation with all the relevant details for NoSQL database researchers developers and administrators **Big Data** Balamurugan Balusamy,Nandhini Abirami R,Seifedine Kadry,Amir H. Gandomi,2021-04-13 Learn Big Data from the ground up with this complete and up to date resource from leaders in the field Big Data Concepts Technology and Architecture delivers a comprehensive treatment of Big Data tools terminology and technology perfectly suited to a wide range of business professionals academic researchers and students Beginning with a fulsome overview of what we mean when we say Big Data the book moves on to discuss every stage of the lifecycle of Big Data You ll learn about the creation of structured unstructured and semi structured data data storage solutions traditional database solutions like SQL data processing data analytics machine learning and data mining You ll also discover how

specific technologies like Apache Hadoop SQOOP and Flume work Big Data also covers the central topic of big data visualization with Tableau and you ll learn how to create scatter plots histograms bar line and pie charts with that software Accessibly organized Big Data includes illuminating case studies throughout the material showing you how the included concepts have been applied in real world settings Some of those concepts include The common challenges facing big data technology and technologists like data heterogeneity and incompleteness data volume and velocity storage limitations and privacy concerns Relational and non relational databases like RDBMS NoSQL and NewSQL databases Virtualizing Big Data through encapsulation partitioning and isolating as well as big data server virtualization Apache software including Hadoop Cassandra Avro Pig Mahout Oozie and Hive The Big Data analytics lifecycle including business case evaluation data preparation extraction transformation analysis and visualization Perfect for data scientists data engineers and database managers Big Data also belongs on the bookshelves of business intelligence analysts who are required to make decisions based on large volumes of information Executives and managers who lead teams responsible for keeping or understanding large datasets will also benefit from this book

**Big Data Fundamentals** Thomas Erl,Wajid Khattak,Paul Buhler,2015-12-29 This text should be required reading for everyone in contemporary business Peter Woodhull CEO Modus21 The one book that clearly describes and links Big Data concepts to business utility Dr Christopher Starr PhD Simply this is the best Big Data book on the market Sam Rostam Cascadian IT Group one of the most contemporary approaches I ve seen to Big Data fundamentals Joshua M Davis PhD The Definitive Plain English Guide to Big Data for Business and Technology Professionals Big Data Fundamentals provides a pragmatic no nonsense introduction to Big Data Best selling IT author Thomas Erl and his team clearly explain key Big Data concepts theory and terminology as well as fundamental technologies and techniques All coverage is supported with case study examples and numerous simple diagrams The authors begin by explaining how Big Data can propel an organization forward by solving a spectrum of previously intractable business problems Next they demystify key analysis techniques and technologies and show how a Big Data solution environment can be built and integrated to offer competitive advantages Discovering Big Data s fundamental concepts and what makes it different from previous forms of data analysis and data science Understanding the business motivations and drivers behind Big Data adoption from operational improvements through innovation Planning strategic business driven Big Data initiatives Addressing considerations such as data management governance and security Recognizing the 5 V characteristics of datasets in Big Data environments volume velocity variety veracity and value Clarifying Big Data s relationships with OLTP OLAP ETL data warehouses and data marts Working with Big Data in structured unstructured semi structured and metadata formats Increasing value by integrating Big Data resources with corporate performance monitoring Understanding how Big Data leverages distributed and parallel processing Using NoSQL and other technologies to meet Big Data s distinct data processing requirements Leveraging statistical approaches of quantitative and qualitative analysis

Applying computational analysis methods including machine learning      Relational, NoSQL, and Artificial Intelligence-Integrated Database Architectures: Foundations, Cloud Platforms, and Regulatory-Compliant Systems Sibaram Prasad Panda, 2025-06-22 A modern entrance to the science of data This textbook introduces the basic principles of the database system and guides students to advanced subjects such as distributed data processing NOSQL model and intelligent query Explanation with practice on hands and real world scenarios prepares learners for both academic and professional activities in data management Beyond the tradition the book examines modern architecture including emerging patterns such as NoSQL database Amazon RDS and Google Big Query such as cloud country platforms and distributed and multi model systems We also check how artificial intelligence is changing database management through automation discrepancy detection and future maintenance Recognizing the increasing importance of trust and compliance dedicated chapters focus on industries rules such as safety access control data governance and GDPR and HIPAA The study of real world cases from areas such as retail healthcare and finance provides valuable insight into practical implementation challenges and migration strategies Whether you are a student data engineer software developer or IT leader this book serves as a complete guide to understand the developed world of database where basic knowledge fulfils the state of the art innovation      **NoSQL For Dummies** Adam Fowler, 2015-02-24 Get up to speed on the nuances of NoSQL databases and what they mean for your organization This easy to read guide to NoSQL databases provides the type of no nonsense overview and analysis that you need to learn including what NoSQL is and which database is right for you Featuring specific evaluation criteria for NoSQL databases along with a look into the pros and cons of the most popular options NoSQL For Dummies provides the fastest and easiest way to dive into the details of this incredible technology You ll gain an understanding of how to use NoSQL databases for mission critical enterprise architectures and projects and real world examples reinforce the primary points to create an action oriented resource for IT pros If you re planning a big data project or platform you probably already know you need to select a NoSQL database to complete your architecture But with options flooding the market and updates and add ons coming at a rapid pace determining what you require now and in the future can be a tall task This is where NoSQL For Dummies comes in Learn the basic tenets of NoSQL databases and why they have come to the forefront as data has outpaced the capabilities of relational databases Discover major players among NoSQL databases including Cassandra MongoDB MarkLogic Neo4J and others Get an in depth look at the benefits and disadvantages of the wide variety of NoSQL database options Explore the needs of your organization as they relate to the capabilities of specific NoSQL databases Big data and Hadoop get all the attention but when it comes down to it NoSQL databases are the engines that power many big data analytics initiatives With NoSQL For Dummies you ll go beyond relational databases to ramp up your enterprise s data architecture in no time      **Modeling and Processing for Next-Generation Big-Data Technologies** Fatos Xhafa, Leonard Barolli, Admir Barolli, Petraq Papajorgji, 2014-11-04 This book covers the latest advances in Big Data technologies and

provides the readers with a comprehensive review of the state of the art in Big Data processing analysis analytics and other related topics It presents new models algorithms software solutions and methodologies covering the full data cycle from data gathering to their visualization and interaction and includes a set of case studies and best practices New research issues challenges and opportunities shaping the future agenda in the field of Big Data are also identified and presented throughout the book which is intended for researchers scholars advanced students software developers and practitioners working at the forefront in their field

**NoSQL and SQL Data Modeling** Ted Hills,2016 How do we design for data when traditional design techniques cannot extend to new database technologies In this era of big data and the Internet of Things it is essential that we have the tools we need to understand the data coming to us faster than ever before and to design databases and data processing systems that can adapt easily to ever changing data schemas and ever changing business requirements There must be no intellectual disconnect between data and the software that manages it It must be possible to extract meaning and knowledge from data to drive artificial intelligence applications Novel NoSQL data organization techniques must be used side by side with traditional SQL databases Are existing data modeling techniques ready for all of this The Concept and Object Modeling Notation COMN is able to cover the full spectrum of analysis and design A single COMN model can represent the objects and concepts in the problem space logical data design and concrete NoSQL and SQL document key value columnar and relational database implementations COMN models enable an unprecedented level of traceability of requirements to implementation COMN models can also represent the static structure of software and the predicates that represent the patterns of meaning in databases This book will teach you the simple and familiar graphical notation of COMN with its three basic shapes and four line styles how to think about objects concepts types and classes in the real world using the ordinary meanings of English words that aren't tangled with confused techno speak how to express logical data designs that are freer from implementation considerations than is possible in any other notation how to understand key value document columnar and table oriented database designs in logical and physical terms how to use COMN to specify physical database implementations in any NoSQL or SQL database with the precision necessary for model driven development I believe that this is a breakthrough modeling technique and it is technique not just notation COMN provides notation to handle all of the constructs that E R techniques don't do well and it steps up to the problem of linking physical and conceptual models I'm convinced that COMN is the future of data modeling Dave Wells BI and Analytics Educator and Consultant Infocentric

**Effective Big Data Management and Opportunities for Implementation** Singh, Manoj Kumar,G., Dileep Kumar,2016-06-20 Big data has become a commonly used term to describe large scale and complex data sets which are difficult to manage and analyze using standard data management methodologies With applications across sectors and fields of study the implementation and possible uses of big data are limitless Effective Big Data Management and Opportunities for Implementation explores emerging research on the ever growing field of big data and facilitates further knowledge



development on methods for handling and interpreting large data sets Providing multi disciplinary perspectives fueled by international research this publication is designed for use by data analysts IT professionals researchers and graduate level students interested in learning about the latest trends and concepts in big data *Big Data* Rajkumar Buyya,Rodrigo N. Calheiros,Amir Vahid Dastjerdi,2016-06-07 Big Data Principles and Paradigms captures the state of the art research on the architectural aspects technologies and applications of Big Data The book identifies potential future directions and technologies that facilitate insight into numerous scientific business and consumer applications To help realize Big Data s full potential the book addresses numerous challenges offering the conceptual and technological solutions for tackling them These challenges include life cycle data management large scale storage flexible processing infrastructure data modeling scalable machine learning data analysis algorithms sampling techniques and privacy and ethical issues Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry High-Performance Big-Data Analytics Pethuru Raj,Anupama Raman,Dhivya Nagaraj,Siddhartha Duggirala,2015-10-16 This book presents a detailed review of high performance computing infrastructures for next generation big data and fast data analytics Features includes case studies and learning activities throughout the book and self study exercises in every chapter presents detailed case studies on social media analytics for intelligent businesses and on big data analytics BDA in the healthcare sector describes the network infrastructure requirements for effective transfer of big data and the storage infrastructure requirements of applications which generate big data examines real time analytics solutions introduces in database processing and in memory analytics techniques for data mining discusses the use of mainframes for handling real time big data and the latest types of data management systems for BDA provides information on the use of cluster grid and cloud computing systems for BDA reviews the peer to peer techniques and tools and the common information visualization techniques used in BDA MongoDB Fundamentals Amit Phaltankar,Juned Ahsan,Michael Harrison,Liviu Nedov,2020-12-22 Learn how to deploy and monitor databases in the cloud manipulate documents visualize data and build applications running on MongoDB using Node js Key FeaturesLearn the fundamentals of NoSQL databases with MongoDBCreate manage and optimize a MongoDB database in the cloud using AtlasUse a real world dataset to gain practical experience of handling big dataBook Description MongoDB is one of the most popular database technologies for handling large collections of data This book will help MongoDB beginners develop the knowledge and skills to create databases and process data efficiently Unlike other MongoDB books MongoDB Fundamentals dives into cloud computing from the very start showing you how to get started with Atlas in the first chapter You will discover how to modify existing data add new data into a database and handle complex queries by creating aggregation pipelines As you progress you ll learn about the MongoDB replication architecture and configure a simple

cluster You will also get to grips with user authentication as well as techniques for backing up and restoring data Finally you ll perform data visualization using MongoDB Charts You will work on realistic projects that are presented as bitesize exercises and activities allowing you to challenge yourself in an enjoyable and attainable way Many of these mini projects are based around a movie database case study while the last chapter acts as a final project where you will use MongoDB to solve a real world problem based on a bike sharing app By the end of this book you ll have the skills and confidence to process large volumes of data and tackle your own projects using MongoDB What you will learn Set up and use MongoDB Atlas on the cloud Insert update delete and retrieve data from MongoDB Build aggregation pipelines to perform complex queries Optimize queries using indexes Monitor databases and manage user authorization Improve scalability and performance with sharding clusters Replicate clusters back up your database and restore data Create data driven charts and reports from real time data Who this book is for This book is designed for people who are new to MongoDB It is suitable for developers database administrators system administrators and cloud architects who are looking to use MongoDB for smooth data processing in the cloud Although not necessary basic knowledge of a general programming language and experience with other databases will help you grasp the topics covered more easily

Big Data Revolution Rob Thomas, Patrick McSharry, 2015-01-05 Exploit the power and potential of Big Data to revolutionize business outcomes Big Data Revolution is a guide to improving performance making better decisions and transforming business through the effective use of Big Data In this collaborative work by an IBM Vice President of Big Data Products and an Oxford Research Fellow this book presents inside stories that demonstrate the power and potential of Big Data within the business realm Readers are guided through tried and true methodologies for getting more out of data and using it to the utmost advantage This book describes the major trends emerging in the field the pitfalls and triumphs being experienced and the many considerations surrounding Big Data all while guiding readers toward better decision making from the perspective of a data scientist Companies are generating data faster than ever before and managing that data has become a major challenge With the right strategy Big Data can be a powerful tool for creating effective business solutions but deep understanding is key when applying it to individual business needs Big Data Revolution provides the insight executives need to incorporate Big Data into a better business strategy improving outcomes with innovation and efficient use of technology Examine the major emerging patterns in Big Data Consider the debate surrounding the ethical use of data Recognize patterns and improve personal and organizational performance Make more informed decisions with quantifiable results In an information society it is becoming increasingly important to make sense of data in an economically viable way It can drive new revenue streams and give companies a competitive advantage providing a way forward for businesses navigating an increasingly complex marketplace Big Data Revolution provides expert insight on the tool that can revolutionize industries

**The Big Data-Driven Business** Russell Glass, Sean Callahan, 2014-11-24 Get the expert perspective and practical advice on big data The Big Data Driven Business How to Use

Big Data to Win Customers Beat Competitors and Boost Profits makes the case that big data is for real and more than just big hype. The book uses real life examples from Nate Silver to Copernicus and Apple to Blackberry to demonstrate how the winners of the future will use big data to seek the truth. Written by a marketing journalist and the CEO of a multi million dollar B2B marketing platform that reaches more than 90% of the U S business population this book is a comprehensive and accessible guide on how to win customers beat competitors and boost the bottom line with big data. The marketplace has entered an era where the customer holds all the cards. With unprecedented choice in both the consumer world and the B2B world it's imperative that businesses gain a greater understanding of their customers and prospects. Big data is the key to this insight because it provides a comprehensive view of a company's customers who they are and who they may be tomorrow. The Big Data Driven Business is a complete guide to the future of business as seen through the lens of big data with expert advice on real world applications. Learn what big data is and how it will transform the enterprise. Explore why major corporations are betting their companies on marketing technology. Read case studies of big data winners and losers. Discover how to change privacy and security and remodel marketing. Better information allows for better decisions better targeting and better reach. Big data has become an indispensable tool for the most effective marketers in the business and it's becoming less of a competitive advantage and more like an industry standard. Remaining relevant as the marketplace evolves requires a full understanding and application of big data and The Big Data Driven Business provides the practical guidance businesses need.

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