



# Accumulo

APPLICATION DEVELOPMENT, TABLE DESIGN, AND BEST PRACTICES

Aaron Cordova,  
Billie Rinaldi & Michael Wall

# Accumulo Application Development Table Design And Best Practices

**Sandeep Uttamchandani**



## **Accumulo Application Development Table Design And Best Practices:**

*Accumulo* Aaron Cordova,Billie Rinaldi,Michael Wall,2015-07-01 Get up to speed on Apache Accumulo the flexible high performance key value store created by the National Security Agency NSA and based on Google s BigTable data storage system Written by former NSA team members this comprehensive tutorial and reference covers Accumulo architecture application development table design and cell level security With clear information on system administration performance tuning and best practices this book is ideal for developers seeking to write Accumulo applications administrators charged with installing and maintaining Accumulo and other professionals interested in what Accumulo has to offer You will find everything you need to use this system fully Get a high level introduction to Accumulo s architecture and data model Take a rapid tour through single and multiple node installations data ingest and query Learn how to write Accumulo applications for several use cases based on examples Dive into Accumulo internals including information not available in the documentation Get detailed information for installing administering tuning and measuring performance Learn best practices based on successful implementations in the field Find answers to common questions that every new Accumulo user asks

**Traffic Mining Applied to Police Activities** Fabio Leuzzi,Stefano Ferilli,2018-03-21 This book presents high quality original contributions on the development of automatic traffic analysis systems that are able to not only anticipate traffic scenarios but also understand the behavior of road users vehicles bikes trucks etc in order to provide better traffic management prevent accidents and potentially identify criminal behaviors Topics also include traffic surveillance and vehicle accident analysis using formal concept analysis convolutional and recurrent neural networks unsupervised learning and process mining The content is based on papers presented at the 1st Italian Conference for the Traffic Police TRAP which was held in Rome in October 2017 This conference represents a targeted response to the challenges facing the police in connection with managing massive traffic data finding patterns from historical datasets and analyzing complex traffic phenomena in order to anticipate potential criminal behaviors The book will appeal to researchers practitioners and decision makers interested in traffic monitoring and analysis traffic modeling and simulation mobility and social data mining as well as members of the police

**Mathematics of Big Data** Jeremy Kepner,Hayden Jananthan,2018-07-17 The first book to present the common mathematical foundations of big data analysis across a range of applications and technologies Today the volume velocity and variety of data are increasing rapidly across a range of fields including Internet search healthcare finance social media wireless devices and cybersecurity Indeed these data are growing at a rate beyond our capacity to analyze them The tools including spreadsheets databases matrices and graphs developed to address this challenge all reflect the need to store and operate on data as whole sets rather than as individual elements This book presents the common mathematical foundations of these data sets that apply across many applications and technologies Associative arrays unify and simplify data allowing readers to look past the differences among the various tools and leverage their mathematical similarities in order to solve the

hardest big data challenges The book first introduces the concept of the associative array in practical terms presents the associative array manipulation system D4M Dynamic Distributed Dimensional Data Model and describes the application of associative arrays to graph analysis and machine learning It provides a mathematically rigorous definition of associative arrays and describes the properties of associative arrays that arise from this definition Finally the book shows how concepts of linearity can be extended to encompass associative arrays Mathematics of Big Data can be used as a textbook or reference by engineers scientists mathematicians computer scientists and software engineers who analyze big data

**Lecture Notes in Real-Time Intelligent Systems** Jolanta Mizera-Pietraszko,Pit Pichappan,Lahby Mohamed,2018-05-14 The second volume of the book series highlights works presented at the 2nd International Conference on Real Time Intelligent Systems held in Casablanca on October 18 20 2017 The book offers a comprehensive practical review of the state of the art in designing and implementing real time intelligent computing for the areas within the conference s scope such as robotics intelligent alert systems IoT remote access control multi agent systems networking mobile smart systems crowdsourcing broadband systems cloud computing streaming data and many other applications Research in real time computing supports decision making in dynamic environments Some examples include ABS FBW flight control automatic air conditioning etc Intelligent computing relies heavily on artificial intelligence AI to make computers act for humans The authors are confident that the solutions discussed in this book will provide a unique source of information and inspiration for researchers working in AI distributed coding algorithms or smart services and platforms and for IT professionals who can integrate the proposed methods into their practice

MapReduce Design Patterns Donald Miner,Adam Shook,2012-11-21 Until now design patterns for the MapReduce framework have been scattered among various research papers blogs and books This handy guide brings together a unique collection of valuable MapReduce patterns that will save you time and effort regardless of the domain language or development framework you re using Each pattern is explained in context with pitfalls and caveats clearly identified to help you avoid common design mistakes when modeling your big data architecture This book also provides a complete overview of MapReduce that explains its origins and implementations and why design patterns are so important All code examples are written for Hadoop Summarization patterns get a top level view by summarizing and grouping data Filtering patterns view data subsets such as records generated from one user Data organization patterns reorganize data to work with other systems or to make MapReduce analysis easier Join patterns analyze different datasets together to discover interesting relationships Metapatterns piece together several patterns to solve multi stage problems or to perform several analytics in the same job Input and output patterns customize the way you use Hadoop to load or store data A clear exposition of MapReduce programs for common data processing patterns this book is indispensable for anyone using Hadoop Tom White author of Hadoop The Definitive Guide

**Making Sense of NoSQL** Ann Kelly,Dan McCreary,2013-09-02 Summary Making Sense of NoSQL clearly and concisely explains the concepts features benefits potential and limitations of

NoSQL technologies Using examples and use cases illustrations and plain jargon free writing this guide shows how you can effectively assemble a NoSQL solution to replace or augment the traditional RDBMS you have now About this Book If you want to understand and perhaps start using the new data storage and analysis technologies that go beyond the SQL database model this book is for you Written in plain language suitable for technical managers and developers and using many examples use cases and illustrations this book explains the concepts features benefits potential and limitations of NoSQL Making Sense of NoSQL starts by comparing familiar database concepts to the new NoSQL patterns that augment or replace them Then you ll explore case studies on big data search reliability and business agility that apply these new patterns to today s business problems You ll see how NoSQL systems can leverage the resources of modern cloud computing and multiple CPU data centers The final chapters show you how to choose the right NoSQL technologies for your own needs Managers and developers will welcome this lucid overview of the potential and capabilities of NoSQL technologies Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications What s Inside NoSQL data architecture patterns NoSQL for big data Search high availability and security Choosing an architecture About the Authors Dan McCreary and Ann Kelly lead an independent training and consultancy firm focused on NoSQL solutions and are cofounders of the NoSQL Now Conference Table of Contents PART 1 INTRODUCTION NoSQL It s about making intelligent choices NoSQL concepts PART 2 DATABASE PATTERNS Foundational data architecture patterns NoSQL data architecture patterns Native XML databases PART 3 NOSQL SOLUTIONS Using NoSQL to manage big data Finding information with NoSQL search Building high availability solutions with NoSQL Increasing agility with NoSQL PART 4 ADVANCED TOPICS NoSQL and functional programming Security protecting data in your NoSQL systems Selecting the right NoSQL solution

**Mathematics of Big Data** Jeremy Kepner, Hayden Jananthan, 2018-08-07 The first book to present the common mathematical foundations of big data analysis across a range of applications and technologies Today the volume velocity and variety of data are increasing rapidly across a range of fields including Internet search healthcare finance social media wireless devices and cybersecurity Indeed these data are growing at a rate beyond our capacity to analyze them The tools including spreadsheets databases matrices and graphs developed to address this challenge all reflect the need to store and operate on data as whole sets rather than as individual elements This book presents the common mathematical foundations of these data sets that apply across many applications and technologies Associative arrays unify and simplify data allowing readers to look past the differences among the various tools and leverage their mathematical similarities in order to solve the hardest big data challenges The book first introduces the concept of the associative array in practical terms presents the associative array manipulation system D4M Dynamic Distributed Dimensional Data Model and describes the application of associative arrays to graph analysis and machine learning It provides a mathematically rigorous definition of associative arrays and describes the properties of associative arrays that arise from this definition Finally the book shows how concepts

of linearity can be extended to encompass associative arrays Mathematics of Big Data can be used as a textbook or reference by engineers scientists mathematicians computer scientists and software engineers who analyze big data

**The DAMA Guide to the Data Management Body of Knowledge** Mark Mosley,2010 Written by over 120 data management practitioners this is the most impressive compilation of data management principals and best practices ever assembled It provides data management and IT professionals executives knowledge workers educators and researchers with a framework to manage their data and mature their information infrastructure The equivalent of the PMBOK or the BABOK the DAMA DMBOK provides information on Data Governance Data Architecture Management Data Development Database Operations Management Data Security Management Reference Data Warehousing Document Meta Data Management Data Quality Management Professional Development As an authoritative introduction to data management the goals of the DAMA DMBOK Guide are To build consensus for a generally applicable view of data management functions To provide standard definitions for commonly used data management functions deliverables roles and other terminology To document guiding principles for data management To present a vendor neutral overview to commonly accepted good practices widely adopted methods and techniques and significant alternative approaches To clarify the scope and boundaries of data management To act as a reference which guides readers to additional resources for further understanding

**NoSQL for Mere Mortals** Dan Sullivan,2015 NoSQL for Mere Mortals is an easy practical guide to succeeding with NoSQL in your environment Students are guided step by step through choosing technologies designing high performance databases and planning for long term maintenance The author introduces each type of NoSQL database shows how to install and manage them and demonstrates how to leverage their features while avoiding common mistakes that lead to poor performance and unmet requirements He uses four popular NoSQL databases as reference models MongoDB a document database Cassandra a column family data store Redis a key value database and Neo4j a graph database

*My Story, My Life, so Far* Michael Wall,2016-02-29 It tells the story of my upbringing and future life I hope that any young person in similar situation reads the book and realises that no matter how difficult life seems to be there is no need to turn to drugs or crime to make a living Just take a deep breath have faith in yourself and jump into life Choose your friends wisely and dont be afraid to take a chance Keep in mind that good friends trusted friends are your best assets and that not everyone is out to rob you or cheat you Life is for living Go and live it and enjoy

**SQL and Relational Theory** C. Date,2011-12-16 SQL is full of difficulties and traps for the unwary You can avoid them if you understand relational theory but only if you know how to put the theory into practice In this insightful book author C J Date explains relational theory in depth and demonstrates through numerous examples and exercises how you can apply it directly to your use of SQL This second edition includes new material on recursive queries missing information without nulls new update operators and topics such as aggregate operators grouping and ungrouping and view updating If you have a modest to advanced background in SQL you ll learn how to deal with a host of common SQL dilemmas

Why is proper column naming so important Nulls in your database are causing you to get wrong answers Why What can you do about it Is it possible to write an SQL query to find employees who have never been in the same department for more than six months at a time SQL supports quantified comparisons but they re better avoided Why How do you avoid them Constraints are crucially important but most SQL products don t support them properly What can you do to resolve this situation Database theory and practice have evolved since the relational model was developed more than 40 years ago SQL and Relational Theory draws on decades of research to present the most up to date treatment of SQL available C J Date has a stature that is unique within the database industry A prolific writer well known for the bestselling textbook An Introduction to Database Systems Addison Wesley he has an exceptionally clear style when writing about complex principles and theory

*U.S. Marines In Vietnam: The Landing And The Buildup, 1965* Dr. Jack Shulimson, Maj. Charles M. Johnson, 2016-08-09 This is the second volume in a series of chronological histories prepared by the Marine Corps History and Museums Division to cover the entire span of Marine Corps involvement in the Vietnam War This volume details the Marine activities during 1965 the year the war escalated and major American combat units were committed to the conflict The narrative traces the landing of the nearly 5 000 man 9th Marine Expeditionary Brigade and its transformation into the II Marine Amphibious Force which by the end of the year contained over 38 000 Marines During this period the Marines established three enclaves in South Vietnam s northernmost corps area I Corps and their mission expanded from defense of the Da Nang Airbase to a balanced strategy involving base defense offensive operations and pacification This volume continues to treat the activities of Marine advisors to the South Vietnamese armed forces but in less detail than its predecessor volume U S Marines in Vietnam 1954 1964 The Advisory and Combat Assistance Era

**HBase: The Definitive Guide** Lars George, 2011-08-29 If you re looking for a scalable storage solution to accommodate a virtually endless amount of data this book shows you how Apache HBase can fulfill your needs As the open source implementation of Google s BigTable architecture HBase scales to billions of rows and millions of columns while ensuring that write and read performance remain constant Many IT executives are asking pointed questions about HBase This book provides meaningful answers whether you re evaluating this non relational database or planning to put it into practice right away Discover how tight integration with Hadoop makes scalability with HBase easier Distribute large datasets across an inexpensive cluster of commodity servers Access HBase with native Java clients or with gateway servers providing REST Avro or Thrift APIs Get details on HBase s architecture including the storage format write ahead log background processes and more Integrate HBase with Hadoop s MapReduce framework for massively parallelized data processing jobs Learn how to tune clusters design schemas copy tables import bulk data decommission nodes and many other tasks

*Flow Architectures* James Urquhart, 2021-01-06 Software development today is embracing events and streaming data which optimizes not only how technology interacts but also how businesses integrate with one another to meet customer needs This phenomenon called flow consists of patterns and standards that determine which

activity and related data is communicated between parties over the internet This book explores critical implications of that evolution What happens when events and data streams help you discover new activity sources to enhance existing businesses or drive new markets What technologies and architectural patterns can position your company for opportunities enabled by flow James Urquhart global field CTO at VMware guides enterprise architects software developers and product managers through the process Learn the benefits of flow dynamics when businesses governments and other institutions integrate via events and data streams Understand the value chain for flow integration through Wardley mapping visualization and promise theory modeling Walk through basic concepts behind today s event driven systems marketplace Learn how today s integration patterns will influence the real time events flow in the future Explore why companies should architect and build software today to take advantage of flow in coming years

**Smart Microgrids** Sasi K. Kottayil,2020-08-17 This book addresses the need to understand the development use construction and operation of smart microgrids SMG Covering selected major operations of SMG like dynamic energy management demand response and demand dispatch it describes the design and operational challenges of different microgrids and provides feasible solutions for systems Smart Micro Grid presents communication technologies and governing standards used in developing communication networks for realizing various smart services and applications in microgrids An architecture facilitating bidirectional communication for smart distribution microgrid is brought out covering aspects of its design development and validation The book is aimed at graduate research students and professionals in power power systems and power electronics Features Covers a broad overview of the benefits the design and operation requirements standards and communication requirements for deploying microgrids in distribution systems Explores issues related to planning expansion operation type of microgrids interaction among microgrid and distribution networks demand response and the technical requirements for the communication network Discusses current standards and common practices to develop and operate microgrids Describes technical issues and requirements for operating microgrids Illustrates smart communication architecture and protocols

**Digital Twin Driven Smart Manufacturing** Fei Tao,Meng Zhang,A.Y.C. Nee,2019-02-07 Digital Twin Driven Smart Manufacturing examines the background latest research and application models for digital twin technology and shows how it can be central to a smart manufacturing process The interest in digital twin in manufacturing is driven by a need for excellent product reliability and an overall trend towards intelligent and connected manufacturing systems This book provides an ideal entry point to this subject for readers in industry and academia as it answers the questions a What is a digital twin b How to construct a digital twin c How to use a digital twin to improve manufacturing efficiency d What are the essential activities in the implementation of a digital twin e What are the most important obstacles to overcome for the successful deployment of a digital twin f What are the relations between digital twin and New Technologies g How to combine digital twin with the New Technologies to achieve high efficiency and smartness in manufacturing This book focuses on these problems as it aims to help readers make



the best use of digital twin technology towards smart manufacturing Analyzes the differences synergies and possibilities for integration between digital twin technology and other technologies such as big data service and Internet of Things Discuss new requirements for a traditional three dimension digital twin and proposes a methodology for a five dimension version Investigates new models for optimized manufacturing prognostics and health management and cyber physical fusion based on the digital twin     The Self-Service Data Roadmap Sandeep Uttamchandani,2020-09-10 Data driven insights are a key competitive advantage for any industry today but deriving insights from raw data can still take days or weeks Most organizations can't scale data science teams fast enough to keep up with the growing amounts of data to transform What's the answer Self service data With this practical book data engineers data scientists and team managers will learn how to build a self service data science platform that helps anyone in your organization extract insights from data Sandeep Uttamchandani provides a scorecard to track and address bottlenecks that slow down time to insight across data discovery transformation processing and production This book bridges the gap between data scientists bottlenecked by engineering realities and data engineers unclear about ways to make self service work Build a self service portal to support data discovery quality lineage and governance Select the best approach for each self service capability using open source cloud technologies Tailor self service for the people processes and technology maturity of your data platform Implement capabilities to democratize data and reduce time to insight Scale your self service portal to support a large number of users within your organization     Big Data Application Architecture Q&A Nitin Sawant,Himanshu Shah,2014-01-24 Big Data Application Architecture Pattern Recipes provides an insight into heterogeneous infrastructures databases and visualization and analytics tools used for realizing the architectures of big data solutions Its problem solution approach helps in selecting the right architecture to solve the problem at hand In the process of reading through these problems you will learn harness the power of new big data opportunities which various enterprises use to attain real time profits Big Data Application Architecture Pattern Recipes answers one of the most critical questions of this time how do you select the best end to end architecture to solve your big data problem The book deals with various mission critical problems encountered by solution architects consultants and software architects while dealing with the myriad options available for implementing a typical solution trying to extract insight from huge volumes of data in real time and across multiple relational and non relational data types for clients from industries like retail telecommunication banking and insurance The patterns in this book provide the strong architectural foundation required to launch your next big data application The architectures for realizing these opportunities are based on relatively less expensive and heterogeneous infrastructures compared to the traditional monolithic and hugely expensive options that exist currently This book describes and evaluates the benefits of heterogeneity which brings with it multiple options of solving the same problem evaluation of trade offs and validation of fitness for purpose of the solution     **Decentralised Energy** Christoph Burger,Antony Froggatt,Catherine Mitchell,Jens Weinmann,2020-01-14

The energy system is undergoing a fundamental transformation from fossil to renewable energy from central power plants to distributed decentralised generation facilities such as rooftop solar panels or wind parks from utilities to private residents as producers of energy and from analogue to digital This book looks at the energy transformation from two complementary angles governance and business model innovation On the one side governance is a decisive factor for the success of the transformation because it can act as an accelerator or it can delay the process On the other side entrepreneurs and corporate decision makers provide new business models for a decentralised energy world Based on best practices country studies and interviews with CEOs and founders of startups from all over the world the Global Game Changer suggests eight key principles for political decision makers to successfully implement the transformation and six core competencies for corporate decision makers to thrive in the new marketplace

**Hadoop 2 Quick-Start Guide** Douglas Eadline, 2015-10-28 Get Started Fast with Apache Hadoop 2 YARN and Today's Hadoop Ecosystem With Hadoop 2 x and YARN Hadoop moves beyond MapReduce to become practical for virtually any type of data processing Hadoop 2 x and the Data Lake concept represent a radical shift away from conventional approaches to data usage and storage Hadoop 2 x installations offer unmatched scalability and breakthrough extensibility that supports new and existing Big Data analytics processing methods and models Hadoop 2 Quick Start Guide is the first easy accessible guide to Apache Hadoop 2 x YARN and the modern Hadoop ecosystem Building on his unsurpassed experience teaching Hadoop and Big Data author Douglas Eadline covers all the basics you need to know to install and use Hadoop 2 on personal computers or servers and to navigate the powerful technologies that complement it Eadline concisely introduces and explains every key Hadoop 2 concept tool and service illustrating each with a simple beginning to end example and identifying trustworthy up to date resources for learning more This guide is ideal if you want to learn about Hadoop 2 without getting mired in technical details Douglas Eadline will bring you up to speed quickly whether you're a user admin devops specialist programmer architect analyst or data scientist Coverage Includes Understanding what Hadoop 2 and YARN do and how they improve on Hadoop 1 with MapReduce Understanding Hadoop based Data Lakes versus RDBMS Data Warehouses Installing Hadoop 2 and core services on Linux machines virtualized sandboxes or clusters Exploring the Hadoop Distributed File System HDFS Understanding the essentials of MapReduce and YARN application programming Simplifying programming and data movement with Apache Pig Hive Sqoop Flume Oozie and HBase Observing application progress controlling jobs and managing workflows Managing Hadoop efficiently with Apache Ambari including recipes for HDFS to NFSv3 gateway HDFS snapshots and YARN configuration Learning basic Hadoop 2 troubleshooting and installing Apache Hue and Apache Spark

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