Data Modeling for MongoDB Building Well Designed And Supportable MongoDB Databases

Sultan Ahmad, Ajit Singh

Data Modeling for MongoDB Steve Hoberman, 2014-06-01 Congratulations! You completed the MongoDB application within the given tight timeframe and there is a party to celebrate your application’s release into production. Although people are congratulating you at the celebration, you are feeling some uneasiness inside. To complete the project on time required making a lot of assumptions about the data, such as what terms meant and how calculations are derived. In addition, the poor documentation about the application will be of limited use to the support team, and not investigating all of the inherent rules in the data may eventually lead to poorly-performing structures in the not-so-distant future. Now, what if you had a time machine and could go back and read this book. You would learn that even NoSQL databases like MongoDB require some level of data modeling. Data modeling is the process of learning about the data, and regardless of technology, this process must be performed for a successful application. You would learn the value of conceptual, logical, and physical data modeling and how each stage increases our knowledge of the data and reduces assumptions and poor design decisions. Read this book to learn how to do data modeling for MongoDB applications, and accomplish these five objectives: Understand how data modeling contributes to the process of learning about the data, and is, therefore, a required technique, even when the resulting database is not relational. That is, NoSQL does not mean NoDataModeling! Know how NoSQL databases differ from traditional relational databases, and where MongoDB fits. Explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts, and learn the basics of adding, querying, updating, and deleting data in MongoDB. Practice a streamlined, template-driven approach to performing conceptual, logical, and physical data modeling. Recognize that data modeling does not always have to lead to traditional data models! Distinguish top-down from bottom-up development approaches and complete a top-down case study which ties all of the modeling techniques together. This book is written for anyone who is working with, or will be working with MongoDB, including business analysts, data modelers, database administrators, developers, project managers, and data scientists. There are three sections: In Section I, Getting Started, we will reveal the power of data modeling and the tight connections to data models that exist when designing any type of database (Chapter 1), compare NoSQL with traditional relational
databases and where MongoDB fits (Chapter 2), explore each MongoDB object and comprehend how each compares to their data modeling and traditional relational database counterparts (Chapter 3), and explain the basics of adding, querying, updating, and deleting data in MongoDB (Chapter 4). In Section II, Levels of Granularity, we cover Conceptual Data Modeling (Chapter 5), Logical Data Modeling (Chapter 6), and Physical Data Modeling (Chapter 7). Notice the “ing” at the end of each of these chapters. We focus on the process of building each of these models, which is where we gain essential business knowledge. In Section III, Case Study, we will explain both top down and bottom up development approaches and go through a top down case study where we start with business requirements and end with the MongoDB database. This case study will tie together all of the techniques in the previous seven chapters. Nike Senior Data Architect Ryan Smith wrote the foreword. Key points are included at the end of each chapter as a way to reinforce concepts. In addition, this book is loaded with hands-on exercises, along with their answers provided in Appendix A. Appendix B contains all of the book’s references and Appendix C contains a glossary of the terms used throughout the text.

**MongoDB Data Modeling** Wilson Da Rocha Franca, 2015 This book is intended for database professionals, software developers, and architects who have some previous experience with MongoDB and now want to shift their focus to the concepts of data modeling. If you wish to develop better schema designs for MongoDB-based applications, this book is ideal for you.

**MongoDB Data Modeling and Schema Design** Daniel Coupal, Pascal Desmarets, Steve Hoberman, 2023-05-24 Each book in the Align > Refine > Design series covers conceptual, logical, and physical data modeling (schema design) for a specific database product, combining the best of data modeling practices with solution-specific considerations, which lead to effective communication tools and extensible datastore foundations. Read MongoDB Data Modeling and Schema Design if you are a data architect or modeler who needs to expand your modeling skills to include MongoDB, or if you are a database administrator or developer who knows MongoDB but needs to expand your schema design skills. The book’s introduction and three chapters cover the proven approach. The introduction covers the three modeling characteristics of precise, minimal, and visual; the three model components of entities, relationships, and attributes; the three model levels of conceptual (align), logical (refine), and physical (design); the three modeling perspectives of relational, dimensional, and NoSQL; and the three modeling challenges with NoSQL (tactical, strategy, and cultural). Next, Chapter 1 covers Align, Chapter 2 Refine, and Chapter 3 Design. An animal shelter case study creates continuity across these three modeling levels. If you are interested in learning how to build multiple database solutions, read all the books in the Align > Refine > Design series. Since each book is created from the same template, once you read one, you’ll be able to pick up the techniques for another database solution quickly.

**MongoDB Recipes** Subhashini Chellappan, Dharanitharan Ganesan, 2019-12-13 Get the most out of MongoDB using a
problem-solution approach. This book starts with recipes on the MongoDB query language, including how to query various data structures stored within documents. These self-contained code examples allow you to solve your MongoDB problems without fuss. MongoDB Recipes describes how to use advanced querying in MongoDB, such as indexing and the aggregation framework. It demonstrates how to use the Compass function, a GUI client interacting with MongoDB, and how to apply data modeling to your MongoDB application. You’ll see recipes on the latest features of MongoDB 4 allowing you to manage data in an efficient manner using MongoDB. What You Will Learn Work with the MongoDB document model Design MongoDB schemas Use the MongoDB query language Harness the aggregation framework Create replica sets and sharding in MongoDB

Who This Book Is For
Developers and professionals who work with MongoDB.

**Learn MongoDB 4.x**
Doug Bierer, 2020-09-11
Design, administer, and deploy high-volume and fault-tolerant database applications using MongoDB 4.x

Key Features
- Build a powerful and scalable MongoDB database using real industry data
- Understand the process of designing NoSQL schema with the latest release of MongoDB 4.x
- Explore the ins and outs of MongoDB, including queries, replication, sharding, and vital admin tasks
- Book Description
  When it comes to managing a high volume of unstructured and non-relational datasets, MongoDB is the defacto database management system (DBMS) for DBAs and data architects. This updated book includes the latest release and covers every feature in MongoDB 4.x, while helping you get hands-on with building a MongoDB database app. You’ll get to grips with MongoDB 4.x concepts such as indexes, database design, data modeling, authentication, and aggregation. As you progress, you’ll cover tasks such as performing routine operations when developing a dynamic database-driven website. Using examples, you’ll learn how to work with queries and regular database operations. The book will not only guide you through design and implementation, but also help you monitor operations to achieve optimal performance and secure your MongoDB database systems. You’ll also be introduced to advanced techniques such as aggregation, map-reduce, complex queries, and generating ad hoc financial reports on the fly. Later, the book shows you how to work with multiple collections as well as embedded arrays and documents, before finally exploring key topics such as replication, sharding, and security using practical examples. By the end of this book, you’ll be well-versed with MongoDB 4.x and be able to perform development and administrative tasks associated with this NoSQL database. What you will learn
- Understand how to configure and install MongoDB 4.x
- Build a database-driven website using MongoDB as the backend
- Perform basic database operations and handle complex MongoDB queries
- Develop a successful MongoDB database design for large corporate customers with complex requirements
- Secure MongoDB database systems by establishing role-based access control with X.509 transport-level security
- Optimize reads and writes directed to a replica set or sharded cluster
- Perform essential MongoDB administration tasks
- Maintain database performance through monitoring

Who this book is for
This book is for DevOps engineers, database developers, database administrators, system administrators and those who are just getting started with NoSQL and looking
to build document-oriented databases and gain real-world experience in managing databases using MongoDB. Basic knowledge of databases and Python is required to get started with this DBMS book.

**MongoDB: The Definitive Guide** Shannon Bradshaw, Eoin Brazil, Kristina Chodorow, 2019-12-09

Manage your data with a system designed to support modern application development. Updated for MongoDB 4.2, the third edition of this authoritative and accessible guide shows you the advantages of using document-oriented databases. You’ll learn how this secure, high-performance system enables flexible data models, high availability, and horizontal scalability. Authors Shannon Bradshaw, Eoin Brazil, and Kristina Chodorow provide guidance for database developers, advanced configuration for system administrators, and use cases for a variety of projects. NoSQL newcomers and experienced MongoDB users will find updates on querying, indexing, aggregation, transactions, replica sets, ops management, sharding and data administration, durability, monitoring, and security. In six parts, this book shows you how to: Work with MongoDB, perform write operations, find documents, and create complex queries Index collections, aggregate data, and use transactions for your application Configure a local replica set and learn how replication interacts with your application Set up cluster components and choose a shard key for a variety of applications Explore aspects of application administration and configure authentication and authorization Use stats when monitoring, back up and restore deployments, and use system settings when deploying MongoDB

**Sports Analytics and Data Science** Thomas W. Miller, 2015-11-18

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. This up-to-the-minute reference will help you master all three facets of sports analytics — and use it to win! Sports Analytics and Data Science is the most accessible and practical guide to sports analytics for everyone who cares about winning and everyone who is interested in data science. You’ll discover how successful sports analytics blends business and sports savvy, modern information technology, and sophisticated modeling techniques. You’ll master the discipline through realistic sports vignettes and intuitive data visualizations—not complex math. Every chapter focuses on one key sports analytics application. Miller guides you through assessing players and teams, predicting scores and making game-day decisions, crafting brands and marketing messages, increasing revenue and profitability, and much more. Step by step, you’ll learn how analysts transform raw data and analytical models into wins: both on the field and in any sports business.

**Hands-On Big Data Modeling** James Lee, Tao Wei, Suresh Kumar Mukhiya, 2018-11-30

Solve all big data problems by learning how to create efficient data models Key Features Create effective models that get the most out of big data Apply your knowledge to datasets from Twitter and weather data to learn big data Tackle different data modeling challenges with expert techniques presented in this book Description Modeling and managing data is a central focus of all big data projects. In fact, a database is considered to be effective only if you have a logical and sophisticated data model. This book will help you
develop practical skills in modeling your own big data projects and improve the performance of analytical queries for your specific business requirements. To start with, you’ll get a quick introduction to big data and understand the different data modeling and data management platforms for big data. Then you’ll work with structured and semi-structured data with the help of real-life examples. Once you’ve got to grips with the basics, you’ll use the SQL Developer Data Modeler to create your own data models containing different file types such as CSV, XML, and JSON. You’ll also learn to create graph data models and explore data modeling with streaming data using real-world datasets. By the end of this book, you’ll be able to design and develop efficient data models for varying data sizes easily and efficiently. What you will learn

- Get insights into big data
- Discover various data models
- Explore conceptual, logical, and big data models
- Understand how to model data containing different file types
- Run through data modeling with examples of Twitter, Bitcoin, IMDB and weather data modeling
- Create data models such as Graph Data and Vector Space
- Model structured and unstructured data using Python and R

Who this book is for

This book is great for programmers, geologists, biologists, and every professional who deals with spatial data. If you want to learn how to handle GIS, GPS, and remote sensing data, then this book is for you. Basic knowledge of R and QGIS would be helpful.

**Marketing Data Science** Thomas W. Miller, 2015-05-02 Now, a leader of Northwestern University's prestigious analytics program presents a fully-integrated treatment of both the business and academic elements of marketing applications in predictive analytics. Writing for both managers and students, Thomas W. Miller explains essential concepts, principles, and theory in the context of real-world applications. Building on Miller's pioneering program, Marketing Data Science thoroughly addresses segmentation, target marketing, brand and product positioning, new product development, choice modeling, recommender systems, pricing research, retail site selection, demand estimation, sales forecasting, customer retention, and lifetime value analysis. Starting where Miller's widely-praised Modeling Techniques in Predictive Analytics left off, he integrates crucial information and insights that were previously segregated in texts on web analytics, network science, information technology, and programming. Coverage includes: The role of analytics in delivering effective messages on the web Understanding the web by understanding its hidden structures Being recognized on the web – and watching your own competitors Visualizing networks and understanding communities within them Measuring sentiment and making recommendations Leveraging key data science methods: databases/data preparation, classical/Bayesian statistics, regression/classification, machine learning, and text analytics Six complete case studies address exceptionally relevant issues such as: separating legitimate email from spam; identifying legally-relevant information for lawsuit discovery; gleaning insights from anonymous web surfing data, and more. This text's extensive set of web and network problems draw on rich public-domain data sources; many are accompanied by solutions in Python and/or R. Marketing Data Science will be an invaluable resource for all students, faculty, and professional marketers who want to use business analytics to improve
marketing performance.

*Web and Network Data Science* Thomas W. Miller, 2015 Master modern web and network data modeling: both theory and applications. In *Web and Network Data Science*, a top faculty member of Northwestern University's prestigious analytics program presents the first fully-integrated treatment of both the business and academic elements of web and network modeling for predictive analytics. Some books in this field focus either entirely on business issues (e.g., Google Analytics and SEO); others are strictly academic (covering topics such as sociology, complexity theory, ecology, applied physics, and economics). This text gives today's managers and students what they really need: integrated coverage of concepts, principles, and theory in the context of real-world applications. Building on his pioneering Web Analytics course at Northwestern University, Thomas W. Miller covers usability testing, Web site performance, usage analysis, social media platforms, search engine optimization (SEO), and many other topics. He balances this practical coverage with accessible and up-to-date introductions to both social network analysis and network science, demonstrating how these disciplines can be used to solve real business problems.

*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 Features: Learn the fundamentals of NoSQL databases with MongoDB. Create, manage, and optimize a MongoDB database in the cloud using Atlas. Use a real-world dataset to gain practical experience of handling big data. Book 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. 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.

**Mastering MongoDB 4.x**

Alex Giamas, 2019-03-30

Leverage the power of MongoDB 4.x to build and administer fault-tolerant database applications

**Key Features**

- Master the new features and capabilities of MongoDB 4.x
- Implement advanced data modeling, querying, and administration techniques in MongoDB
- Includes rich case-studies and best practices followed by expert MongoDB developers

**Book Description**

MongoDB is the best platform for working with non-relational data and is considered to be the smartest tool for organizing data in line with business needs. The recently released MongoDB 4.x supports ACID transactions and makes the technology an asset for enterprises across the IT and fintech sectors. This book provides expertise in advanced and niche areas of managing databases (such as modeling and querying databases) along with various administration techniques in MongoDB, thereby helping you become a successful MongoDB expert. The book helps you understand how the newly added capabilities function with the help of some interesting examples and large datasets. You will dive deeper into niche areas such as high-performance configurations, optimizing SQL statements, configuring large-scale sharded clusters, and many more. You will also master best practices in overcoming database failover, and master recovery and backup procedures for database security. By the end of the book, you will have gained a practical understanding of administering database applications both on premises and on the cloud; you will also be able to scale database applications across all servers. What you will learn

- Perform advanced querying techniques such as indexing and expressions
- Configure, monitor, and maintain a highly scalable MongoDB environment
- Master replication and data sharding to optimize read/write performance
- Administer MongoDB-based applications on premises or on the cloud
- Integrate MongoDB with big data sources to process huge amounts of data
- Deploy MongoDB on Kubernetes containers
- Use MongoDB in IoT, mobile, and serverless environments

**Who this book is for**

This book is ideal for MongoDB developers and database administrators who wish to become successful MongoDB experts and build scalable and fault-tolerant applications using MongoDB. It will also be useful for database professionals who wish to become certified MongoDB professionals. Some understanding of MongoDB and basic database concepts is required to get the most out of this book.

**Design with MongoDB**

Alessandro Fiori, 2020-11-02

The world of NoSQL databases is constantly evolving. Many applications are adopting these new technologies to provide developers with increasingly powerful tools. One of their prominent hallmarks is the freedom from having to define a database model ahead - a feature known as being schemaless. MongoDB, the market leader in NoSQL document databases, has made this feature its strong point. An unprecedented level of flexibility makes MongoDB an incredibly powerful tool, but may likewise compromise performance, if not properly tamed.
The design of database models, therefore, becomes fundamental to achieving the best performance. In this book we will analyze some use cases and identify optimal modeling patterns, by taking into account the constraints of the application context. We will pinpoint the benefits, but also the tradeoffs that come with each pattern. These patterns will become our tools of the trade for taking full advantage of the power and flexibility of this document database, and building efficient applications.

**Sams Teach Yourself NoSQL with MongoDB in 24 Hours** Brad Dayley, 2015 NoSQL database usage is growing at a stunning 50% per year, as organizations discover NoSQL's potential to address even the most challenging Big Data and real-time database problems. Every NoSQL database is different, but one is the most popular by far: MongoDB. Now, in just 24 lessons of one hour or less, you can learn how to leverage MongoDB’s immense power. Each short, easy lesson builds on all that's come before, teaching NoSQL concepts and MongoDB techniques from the ground up. Sams Teach Yourself NoSQL with MongoDB in 24 Hours covers all this, and much more: Learning how NoSQL is different, when to use it, and when to use traditional RDBMSes instead. Designing and implementing MongoDB databases of diverse types and sizes. Storing and interacting with data via Java, PHP, Python, and Node.js/Mongoose. Choosing the right NoSQL distribution model for your application. Installing and configuring MongoDB. Designing MongoDB data models, including collections, indexes, and GridFS. Balancing consistency, performance, and durability. Leveraging the immense power of Map-Reduce. Administering, monitoring, securing, backing up, and repairing MongoDB databases. Mastering advanced techniques such as sharding and replication. Optimizing performance.

**Mastering MongoDB** Frahaan Hussain, Kameron Hussain, 2024-01-30 Mastering MongoDB: A Comprehensive Guide to NoSQL Database Excellence is an essential resource for anyone looking to deepen their understanding and proficiency in MongoDB, a leading NoSQL database technology. This comprehensive guide serves as an invaluable tool for database administrators, software developers, and IT professionals, helping them to harness the full potential of MongoDB in their projects and applications. This book begins with a thorough introduction to MongoDB, making it suitable even for those who are new to NoSQL databases. It lays a solid foundation by explaining the key differences between traditional relational databases and NoSQL systems, with a specific focus on MongoDB's unique features and strengths. As the reader progresses, the book delves into advanced topics such as data modeling and database design. It offers practical advice on how to structure data in a non-relational format, ensuring efficient access and scalability. The chapters on query optimization provide in-depth techniques to enhance the performance of MongoDB databases, making them run faster and more efficiently. One of the highlights of this guide is its focus on MongoDB's architecture. It offers a deep dive into the internal workings of MongoDB, giving readers a comprehensive understanding of how it manages data storage, indexing, and transactions. This knowledge is crucial for effectively scaling and maintaining MongoDB databases in production.
environments. Security is a paramount concern in today’s digital world, and this book addresses it head-on. It covers
MongoDB’s security features in detail, teaching readers how to implement robust security measures, manage user
authentication, and protect sensitive data from unauthorized access. The book also provides practical insights into the
development and deployment of MongoDB-based applications. It covers various programming interfaces, giving examples in
multiple programming languages to cater to a diverse audience. Readers will learn how to integrate MongoDB into different
software development environments and how to use its rich feature set for complex data manipulation and retrieval. For
those involved in large-scale data storage solutions, the book discusses strategies for database scaling and replication,
ensuring high availability and performance. It also keeps the readers up-to-date with the latest trends and updates in
MongoDB, preparing them for future developments in NoSQL database technology. Mastering MongoDB is more than just a
technical manual; it is a guide that empowers its readers with the knowledge and skills to excel in the rapidly evolving world
of NoSQL databases. Whether you are a beginner eager to learn about MongoDB or a seasoned professional aiming to refine
your skills, this book is an indispensable asset on your journey to mastering MongoDB.

Mastering MongoDB 3.x Alex Giamas, 2017-11-17
An expert's guide to build fault tolerant MongoDB application
About This Book
Master the advanced modeling, querying, and administration techniques in MongoDB and become a MongoDB expert
Covers the latest updates and Big Data features frequently used by professional MongoDB developers and administrators
If your goal is to become a certified MongoDB professional, this book is your perfect companion
Who This Book Is For
Mastering MongoDB is a book for database developers, architects, and administrators who want to learn how to use MongoDB
more effectively and productively. If you have experience in, and are interested in working with, NoSQL databases to build apps and websites, then this book is for you. What You Will Learn
Get hands-on with advanced querying techniques such as indexing, expressions, arrays, and more.
Configure, monitor, and maintain highly scalable MongoDB environment like an expert.
Master replication and data sharding to optimize read/write performance.
Design secure and robust applications based on MongoDB.
Administer MongoDB-based applications on-premise or in the cloud.
Scale MongoDB to achieve your design goals.
Integrate MongoDB with big data sources to process huge amounts of data.
In Detail
MongoDB has grown to become the de facto NoSQL database with millions of users—from small startups to Fortune 500 companies.
Addressing the limitations of SQL schema-based databases, MongoDB pioneered a shift of focus for DevOps and offered
sharding and replication maintainable by DevOps teams. The book is based on MongoDB 3.x and covers topics ranging from
database querying using the shell, built in drivers, and popular ODM mappers to more advanced topics such as sharding, high availability, and integration with big data sources. You will get an overview of MongoDB and how to play to its strengths, with relevant use cases. After that, you will learn how to query MongoDB effectively and make use of indexes as much as possible. The next part deals with the administration of MongoDB installations on-premise or in the cloud. We deal
with database internals in the next section, explaining storage systems and how they can affect performance. The last section of this book deals with replication and MongoDB scaling, along with integration with heterogeneous data sources. By the end this book, you will be equipped with all the required industry skills and knowledge to become a certified MongoDB developer and administrator. Style and approach This book takes a practical, step-by-step approach to explain the concepts of MongoDB. Practical use-cases involving real-world examples are used throughout the book to clearly explain theoretical concepts.

**SQL and NoSQL Databases** Michael Kaufmann, Andreas Meier, 2023-06-29 This textbook offers a comprehensive introduction to relational (SQL) and non-relational (NoSQL) databases. The authors thoroughly review the current state of database tools and techniques and examine upcoming innovations. In the first five chapters, the authors analyze in detail the management, modeling, languages, security, and architecture of relational databases, graph databases, and document databases. Moreover, an overview of other SQL- and NoSQL-based database approaches is provided. In addition to classic concepts such as the entity and relationship model and its mapping in SQL database schemas, query languages or transaction management, other aspects for NoSQL databases such as non-relational data models, document and graph query languages (MQL, Cypher), the Map/Reduce procedure, distribution options (sharding, replication) or the CAP theorem (Consistency, Availability, Partition Tolerance) are explained. This 2nd English edition offers a new in-depth introduction to document databases with a method for modeling document structures, an overview of the document-oriented MongoDB query language MQL as well as security and architecture aspects. The topic of database security is newly introduced as a separate chapter and analyzed in detail with regard to data protection, integrity, and transactions. Texts on data management, database programming, and data warehousing and data lakes have been updated. In addition, the book now explains the concepts of JSON, JSON schema, BSON, index-free neighborhood, cloud databases, search engines and time series databases. The book includes more than 100 tables, examples and illustrations, and each chapter offers a list of resources for further reading. It conveys an in-depth comparison of relational and non-relational approaches and shows how to undertake development for big data applications. This way, it benefits students and practitioners working across the broad field of data science and applied information technology.

**MongoDB: The Definitive Guide** Kristina Chodorow, 2013-05-10 Manage the huMONGOus amount of data collected through your web application with MongoDB. This authoritative introduction—written by a core contributor to the project—shows you the many advantages of using document-oriented databases, and demonstrates how this reliable, high-performance system allows for almost infinite horizontal scalability. This updated second edition provides guidance for database developers, advanced configuration for system administrators, and an overview of the concepts and use cases for other people on your project. Ideal for NoSQL newcomers and experienced MongoDB users alike, this guide provides
numerous real-world schema design examples. Get started with MongoDB core concepts and vocabulary. Perform basic write operations at different levels of safety and speed. Create complex queries, with options for limiting, skipping, and sorting results. Design an application that works well with MongoDB. Aggregate data, including counting, finding distinct values, grouping documents, and using MapReduce. Gather and interpret statistics about your collections and databases. Set up replica sets and automatic failover in MongoDB. Use sharding to scale horizontally, and learn how it impacts applications. Delve into monitoring, security and authentication, backup/restore, and other administrative tasks.

*Data Modeling With NoSQL Database* Sultan Ahmad, Ajit Singh, 2019-06-10  ● This book provides a simple methodology for modeling data in a non-relational database, as well as a set of common design patterns. This book mainly focused on both Cassandra and Riak. Both Cassandra and Riak were able to yield good results when compared to the relational implementation used as a baseline. They also proved to be easily scalable and elastic. Cassandra, specifically, achieved significantly better results for write operations than the other systems. The developed design patterns proved themselves useful when implementing the prototypes and it is expected that given this work it will be easier to adopt a NoSQL database.

● This book aims to fill this knowledge gap by studying the available non-relational databases in order to develop a systematic approach for solving problems of data persistence using these technologies.

*Graph Data Modeling for NoSQL and SQL* Thomas Frisendal, 2016  Master a graph data modeling technique superior to traditional data modeling for both relational and NoSQL databases (graph, document, key-value, and column), leveraging cognitive psychology to improve big data designs. From Karen Lopez's Foreword: In this book, Thomas Frisendal raises important questions about the continued usefulness of traditional data modeling notations and approaches: Are Entity Relationship Diagrams (ERDs) relevant to analytical data requirements? Are ERDs relevant in the new world of Big Data? Are ERDs still the best way to work with business users to understand their needs? Are Logical and Physical Data Models too closely coupled? Are we correct in using the same notations for communicating with business users and developers? Should we refine our existing notations and tools to meet these new needs, or should we start again from a blank page? What new notations and approaches will we need? How will we use those to build enterprise database systems? Frisendal takes us through the history of data modeling, enterprise data models and traditional modeling methods. He points out, quite contentiously, where he feels we have gone wrong and in a few places where we got it right. He then maps out the psychology of meaning and context, while identifying important issues about where data modeling may or may not fit in business modeling. The main subject of this work is a proposal for a new exploration-driven modeling approach and new modeling notations for business concept models, business solutions models, and physical data models with examples on how to leverage those for implementing into any target database or datastore. These new notations are based on a property graph approach to modeling data. From the author's introduction: This book proposes a new approach to data modeling—one that
turns the inside out. For well over thirty years, relational modeling and normalization was the name of the game. One can ask that if normalization was the answer, what was the problem? There is something upside-down in that approach, as we will see in this book. Data analysis (modeling) is much like exploration. Almost literally. The data modeler wanders around searching for structure and content. It requires perception and cognitive skills, supported by intuition (a psychological phenomenon), that together determine how well the landscape of business semantics is mapped. Mapping is what we do; we explore the unknowns, draw the maps and ...

Data Modeling For Mongodb Building Well Designed And Supportable Mongodb Databases Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book Data Modeling For Mongodb Building Well Designed And Supportable Mongodb Databases, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.


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