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# Nosql With Mongodb In 24 Hours

## Sams Teach Yourself By Brad Dayley

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A Deep Dive into NoSQL Databases: The Use Cases and Applications

Sams Teach Yourself NoSQL with MongoDB in 24 Hours

Node.js, MongoDB and AngularJS Web Development

Mastering MongoDB 4.x

MongoDB Administrator's Guide

Making Sense of NoSQL

Redis Cookbook

A Deep Dive into NoSQL Databases: The Use Cases and Applications

Getting Started with CouchDB

MongoDB Applied Design Patterns

Spring Data

Principles of Database Management

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The Definitive Guide to MongoDB

MongoDB Fundamentals

NoSQL with MongoDB in 24 Hours, Sams Teach Yourself

Learn MongoDB in 24 Hours

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Getting Started with NoSQL

Graph Databases

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Seven NoSQL Databases in a Week

## MongoDB Basics NoSQL for Mere Mortals

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Mongodb In 24  
Hours Sams  
Teach Yourself* [archive.imba.com](http://archive.imba.com)  
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#### A Deep Dive into NoSQL Databases: The Use Cases and Applications

Academic Press

NoSQL Starter is a great resource for someone starting with NoSQL and an indispensable guide for technology decision makers. It is assumed that you have a background in RDBMS modeling and SQL and have had exposure to at least one of the programming languages – Java or

JavaScript. Friendly, practical tutorial with lots of hints and tips from several experienced Solr users and developers.

*Sams Teach Yourself  
NoSQL with MongoDB in  
24 Hours* Packt Pub  
Limited

CouchDB is a new breed of database for the Internet, geared to meet the needs of today's dynamic web applications. With this concise introduction, you'll learn how CouchDB's simple model for storing, processing, and accessing data makes it ideal for the type of data and rapid

response users now demand from your applications—and how easy CouchDB is to set up, deploy, maintain, and scale. The code-packed examples in this book will help you learn how to work with documents, populate a simple database, replicate data from one database to another, and a host of other tasks. Install CouchDB on Linux, Mac OS X, Windows, or (if you must) from the source code. Interact with data through CouchDB's RESTful API, and use standard HTTP operations, such as PUT, GET, POST, and DELETE. Use Futon—CouchDB's web-based interface—to manage databases and documents, and to configure replications. Learn how to create, update, and delete documents in JSON format, and how to create and delete databases. Work with design documents to get the formatting and indexing your application requires. [Node.js, MongoDB and AngularJS Web Development](#) Manning Publications  
Need a quick and easy to understand introduction

to MongoDB and NoSQL databases? [MongoDB Basics](#), from [The Definitive Guide to MongoDB, 2E](#), shows you how a document-oriented database system differs from a relational database, and how to install and get started using it. You'll also learn MongoDB design basics, including geospatial indexing, how to navigate, view, and query your database, and how to use GridFS with a bit of Python.

[Mastering MongoDB 4.x](#) Pearson Education  
Application developers love MongoDB, a document-oriented NoSQL database, for its speed, flexibility, scalability, and ease of use. MongoDB is well-suited as a back-end for modern web applications. Its schema-free design encourages rapid application development, and built-in replication and auto-sharding architecture allow for massive parallel distribution. Production deployments at SourceForge, Foursquare, and Shutterfly demonstrate daily that MongoDB is up to real-world challenges. [MongoDB in Action](#),

Second Edition is a comprehensive guide to MongoDB version 2.6. It begins with a general overview of current database systems, explaining what makes MongoDB unique and describing its ideal use cases. Then, a series of tutorials lead into detailed examples for leveraging MongoDB in e-commerce, social networking, and other common applications. A reference section on schema design patterns helps ease the transition from the relational data model of SQL to MongoDB's document-based data model. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. [MongoDB Administrator's Guide](#) Pearson Education 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 *Making Sense of NoSQL* John Wiley & Sons Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL

approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4J, CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB

are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more. This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a \*nix shell (Mac OS or Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database.

[Redis Cookbook](#) "O'Reilly Media, Inc."

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.

*A Deep Dive into NoSQL Databases: The Use Cases and Applications* "O'Reilly Media, Inc."

MongoDB gives flexibility in compare to RDBMS. It has features like dynamic schemas, storage for large volume data, scaling database architecture, real-time data reporting, data sharding, and so on. It enables to develop application faster. To address all these features in a concise manner, this e-book is created. This e-book has explained features of MongoDB, that is important from the point of Big data analytics. It makes clear the confusion over MySQL and NoSQL working pattern. It has accommodated all the topics on MongoDB with

examples. It guides you right through setting up MongoDB environment to security requirements. The book is too small, but all important aspect of MongoDB is covered. The examples and code are explained in a manner that beginners can easily absorb the content. The book has also illustrated various shell commands to access MongoDB. Not only that, but the user will also explore about JSON document and creating queries in MongoDB. The book can be used for further reference for application build on MongoDB Java or MongoDB Python. Minimum price range and maximum deliverable is the main plus point of this e-book. Table Of Content  
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MongoDB is a high-  
performance and feature-  
rich NoSQL database that  
forms the backbone of the  
systems that power many  
different organizations.  
Packed with many  
features that have  
become essential for  
many different types of  
software professional and  
incredibly easy to use,  
this cookbook contains  
more than 100 recipes to  
address the everyday  
challenges of working

with MongoDB. Starting  
with database  
configuration, you will  
understand the indexing  
aspects of MongoDB. The  
book also includes  
practical recipes on how  
you can optimize your  
database query  
performance, perform  
diagnostics, and query  
debugging. You will also  
learn how to implement  
the core administration  
tasks required for high-  
availability and scalability,  
achieved through replica  
sets and sharding,  
respectively. You will also  
implement server security  
concepts such as  
authentication, user  
management, role-based  
access models, and TLS  
configuration. You will  
also learn how to back up  
and recover your  
database efficiently and  
monitor server  
performance. By the end  
of this book, you will have  
all the information you  
need—along with tips,  
tricks, and best  
practices—to implement a  
high-performance  
MongoDB solution. Style  
and approach This  
practical book follows a  
problem-solution  
approach to help you  
tackle any issues  
encountered while  
performing MongoDB  
administrative tasks. Each  
recipe is detailed, and

explained in a very easy to understand manner

**Principles of Database Management** John Wiley & Sons

MongoDB, a cross-platform NoSQL database, is the fastest-growing new database in the world.

MongoDB provides a rich document-oriented structure with dynamic queries that you'll recognize from RDBMS offerings such as MySQL.

In other words, this is a book about a NoSQL database that does not require the SQL crowd to re-learn how the database world works! MongoDB has reached 1.0 and boasts 50,000+ users.

The community is strong and vibrant and MongoDB is improving at a fast rate. With scalable and fast databases becoming critical for today's applications, this book shows you how to install, administer and program MongoDB without pretending SQL never existed.

*Learn MongoDB 4.x*

Apress

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

*The Definitive Guide to MongoDB* Guru99

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
- 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.

*MongoDB Fundamentals*  
Packt Publishing Ltd

"It's 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 word 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.

*NoSQL with MongoDB in 24 Hours, Sams Teach Yourself* Packt Publishing Ltd

A hands-on guide to leveraging NoSQL databases. NoSQL databases are an efficient and powerful tool for storing and manipulating vast quantities of data. Most NoSQL databases scale well as data grows. In addition, they are often malleable and flexible enough to accommodate semi-structured and sparse data sets. This comprehensive hands-on guide presents fundamental concepts and practical solutions for getting you ready to use NoSQL databases. Expert

author Shashank Tiwari begins with a helpful introduction on the subject of NoSQL, explains its characteristics and typical uses, and looks at where it fits in the application stack. Unique insights help you choose which NoSQL solutions are best for solving your specific data storage needs. Professional NoSQL: Demystifies the concepts that relate to NoSQL databases, including column-family oriented stores, key/value databases, and document databases. Delves into installing and configuring a number of NoSQL products and the Hadoop family of products. Explains ways of storing, accessing, and querying data in NoSQL databases through examples that use MongoDB, HBase, Cassandra, Redis, CouchDB, Google App Engine Datastore and more. Looks at architecture and internals. Provides guidelines for optimal usage, performance tuning, and scalable configurations. Presents a number of tools and utilities relating to NoSQL, distributed platforms, and scalable processing, including Hive, Pig, RRDtool, Nagios, and more.

Learn MongoDB in 24

Hours Packt Publishing Ltd

A fast paced guide that will help you to create, read, update and delete data using MongoDB. Key Features: Create secure databases with MongoDB. Manipulate and maintain your database. Model and use data in a No SQL environment with MongoDB. Book Description: MongoDB has grown to become the de facto NoSQL database with millions of users, from small start-ups to Fortune 500 companies. It can solve problems that are considered difficult, if not impossible, for aging RDBMS technologies. Written for version 4 of MongoDB, this book is the easiest way to get started with MongoDB. You will start by getting a MongoDB installation up and running in a safe and secure manner. You will learn how to perform mission-critical create, read, update, and delete operations, and set up database security. You will also learn about advanced features of MongoDB such as the aggregation pipeline, replication, and sharding. You will learn how to build a simple web application that uses MongoDB to respond to AJAX queries, and see how to make use

of the MongoDB programming language driver for PHP. The examples incorporate new features available in MongoDB version 4 where appropriate. What you will learn

Get a standard MongoDB database up and running quickly

Perform simple CRUD operations on the database using the MongoDB command shell

Set up a simple aggregation pipeline to return subsets of data grouped, sorted, and filtered

Safeguard your data via replication and handle massive amounts of data via sharding

Publish data from a web form to the database using a program language driver

Explore the basic CRUD operations performed using the PHP MongoDB driver

Who this book is for

Web developers, IT professionals and Database Administrators (DBAs) who want to learn how to create and manage MongoDB databases.

### **Node.js, MongoDB and Angular Web**

**Development** "O'Reilly Media, Inc."

Discover how graph databases can help you manage and query highly connected data. With this practical book, you'll learn

how to design and implement a graph database that brings the power of graphs to bear on a broad range of problem domains.

Whether you want to speed up your response to user queries or build a database that can adapt as your business evolves, this book shows you how to apply the schema-free graph model to real-world problems. Learn how different organizations are using graph databases to outperform their competitors. With this book's data modeling, query, and code examples, you'll quickly be able to implement your own solution. Model data with the Cypher query language and property graph model

Learn best practices and common pitfalls when modeling with graphs

Plan and implement a graph database solution in test-driven fashion

Explore real-world examples to learn how and why organizations use a graph database

Understand common patterns and components of graph database architecture

Use analytical techniques and algorithms to mine graph database information

### **Data Modeling for MongoDB**

Apress

Use this fast and

complete guide to optimize the performance of MongoDB databases and the applications that depend on them. You will be able to turbo-charge the performance of your MongoDB applications to provide a better experience for your users, reduce your running costs, and avoid application growing pains. MongoDB is the world's most popular document database and the foundation for thousands of mission-critical applications. This book helps you get the best possible performance from MongoDB. MongoDB Performance Tuning takes a methodical and comprehensive approach to performance tuning that begins with application and schema design and goes on to cover optimization of code at all levels of an application. The book also explains how to configure MongoDB hardware and cluster configuration for optimal performance. The systematic approach in the book helps you treat the true causes of performance issues and get the best return on your tuning investment. Even when you're under pressure and don't know where to begin, simply follow the method in this

book to set things right and get your MongoDB performance back on track. What You Will Learn Apply a methodical approach to MongoDB performance tuning Understand how to design an efficient MongoDB application Optimize MongoDB document design and indexing strategies Tune MongoDB queries, aggregation pipelines, and transactions Optimize MongoDB server resources: CPU, memory, disk Configure MongoDB Replica sets and Sharded clusters for optimal performance Who This Book Is For Developers and administrators of high-performance MongoDB applications who want to be sure they are getting the best possible performance from their MongoDB system. For developers who wish to create applications that are fast, scalable, and cost-effective. For administrators who want to optimize their MongoDB server and hardware configuration. *Professional NoSQL* Packt Publishing Ltd 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.

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