

Chapter 1 : MongoDB: The Definitive Guide, 2nd Edition : Books

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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. You can control everything from within your application in JavaScript, eliminating the need to work with the database or a separate management system. *Mongoose for Application Development* is a practical, hands-on guide that takes you from installing the technology stack through the steps of developing a web application. It covers the key features of Mongoose and how to use them to rapidly develop a Node. This book introduces the full technology stack of Node. It will take you through the process of building an application on this stack with a focus on how Mongoose makes the process quicker and easier. Starting with how to install, configure, and develop content in both Pentaho and MongoDB, this book will give you the complete range of skills needed to gain insight into MongoDB data using Pentaho Business Analytics. You will learn about MongoDB data models and query techniques, which are covered in combination with the provided sample MongoDB database. You then advance to data integration, analysis, and reporting using Pentaho. *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. Developers and relational database admins who need to get up to speed quickly on what MongoDB is, how it works, and how to use it. It is a document database that allows data persistence and enables you to query data in a nested state without any schema constraints and complex joins between documents. This book provides all the knowledge you need to make MongoDB fit into your application schema. It starts with a basic introduction to the driver that can be used to perform some low-level interaction with the storage. Then it moves on to using different patterns to abstract the persistence layer into your applications, starting with the flexible Google JSON library to the Hibernate OGM framework and finally landing on the Spring Data framework. By the end of this book, you will know everything you need to integrate MongoDB in your Java applications. For example, a reason to migrate from Cassandra is that it is not based on the JSON document model with support for a flexible schema without having to define columns and supercolumns. The target audience is largely Java developers but the book also supports PHP and Ruby developers who want to learn about Couchbase. Using these two technologies together, web applications can be built quickly and easily and deployed to the cloud with very little difficulty. The book will begin by introducing you to the groundwork needed to set up the development environment. Here, you will quickly run through the steps necessary to get the main application server up and running. Then you will see how to use Node. From here on, the book will take you through integration with third-party tools for interaction with web apps. It then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time. Toward the end of the book, we will cover tests to properly execute the code and some popular frameworks for developing web applications. End users love it because the apps created with it are fast and responsive. The Third Edition also now includes Node. David Hows from 10gen, along with experienced MongoDB authors Peter Membrey and Eelco Plugge, provide their expertise and experience in teaching you everything you need to know to become a MongoDB pro. Pentaho as a famous open source Analysis tool provides high performance, high availability, and easy scalability for large sets of data. The variant features in Pentaho for MongoDB are designed to empower organizations to be more agile and scalable and also enables applications to have better flexibility, faster performance, and lower costs. Whether you are brand new to online learning or a seasoned expert, this book will provide you with the skills you need to create turnkey analytic solutions that deliver insight and drive value for your organization.

Chapter 2 : MongoDB: The Definitive Guide, 2nd Edition - O'Reilly Media

The updated edition of this authoritative and accessible guide shows you the many advantages of using document-oriented databases, including how this secure, high-performance system enables flexible data models, high availability, and horizontal scalability.

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Chapter 1. Introduction MongoDB is a powerful, flexible, and scalable general-purpose database. It combines the ability to scale out with features such as secondary indexes, range queries, sorting, aggregations, and geospatial indexes. This chapter covers the major design decisions that made MongoDB what it is. Ease of Use MongoDB is a document-oriented database, not a relational one. The primary reason for moving away from the relational model is to make scaling out easier, but there are some other advantages as well. This fits naturally into the way developers in modern object-oriented languages think about their data. There are also no predefined schemas: Without a fixed schema, adding or removing fields as needed becomes easier. Generally, this makes development faster as developers can quickly iterate. It is also easier to experiment. Developers can try dozens of models for the data and then choose the best one to pursue. Designed to Scale Data set sizes for applications are growing at an incredible pace. Increases in available bandwidth and cheap storage have created an environment where even small-scale applications need to store more data than many databases were meant to handle. A terabyte of data, once an unheard-of amount of information, is now commonplace. As the amount of data that developers need to store grows, developers face a difficult decision: Scaling a database comes down to the choice between scaling up getting a bigger machine or scaling out partitioning data across more machines. Scaling up is often the path of least resistance, but it has drawbacks: The alternative is to scale out: This is both cheaper and more scalable; however, it is more difficult to administer a thousand machines than it is to care for one. MongoDB was designed to scale out. The document-oriented data model makes it easier to split data across multiple servers. MongoDB automatically takes care of balancing data and load across a cluster, redistributing documents automatically and routing reads and writes to the correct machines. MongoDB is a general-purpose database, so aside from creating, reading, updating, and deleting data, it provides most of the features you would expect from a DBMS and many others that set it apart: Indexing MongoDB supports generic secondary indexes and provides unique, compound, geospatial, and full-text indexing capabilities as well. Secondary indexes on hierarchical structures such as nested documents and arrays are also supported and enable developers to take full advantage of the ability to model in ways that best suit their applications. Aggregation MongoDB provides an aggregation framework based on the concept of data processing pipelines. Aggregation pipelines allow you to build complex analytics engines by processing data through a series of relatively simple stages on the server side and with the full advantage of database optimizations. Special collection and index types MongoDB supports time-to-live TTL collections for data that should expire at a certain time, such as sessions and fixed-size capped collections, for holding recent data, such as logs. MongoDB also supports partial indexes limited to only those documents matching a criteria filter in order to increase efficiency and reduce the amount of storage space required. File storage MongoDB supports an easy-to-use protocol for storing large files and file metadata. Some features common to relational databases are not present in MongoDB, notably complex multirow transactions. It uses as much of RAM as it can as its cache and attempts to automatically choose the correct indexes for queries. In short, almost every aspect of MongoDB was designed to maintain high performance. Although MongoDB is powerful, incorporating many features from relational systems, it is not intended to do everything that a relational database does. Maintaining this streamlined design is one of the reasons MongoDB can achieve such high performance. Through those notes we hope to share the philosophy behind MongoDB. The best way to summarize the MongoDB project, however, is through its main focus-to create a full-featured data store that is scalable, flexible, and fast. Get unlimited access to videos, live online training, learning paths, books, interactive tutorials, and more.

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The Definitive Guide to MongoDB, Third Edition, is updated for MongoDB 3 and includes all of the latest MongoDB features, including the aggregation framework introduced in version and hashed indexes in version

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MongoDB: The Definitive Guide, 3rd Edition by Kristina Chodorow, Shannon Bradshaw Stay ahead with the world's most comprehensive technology and business learning platform. With Safari, you learn the way you learn best.

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Chapter 7 : Introduction - MongoDB: The Definitive Guide, 3rd Edition [Book]

Having recently started to use MongoDB in my day job, I have no doubt that this book will be at my side for the entire journeyâ€”from the first install to production deployment of a sharded and replicated cluster.

Chapter 8 : MongoDB: The Definitive Guide by Kristina Chodorow

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The Definitive Guide to MongoDB, Third Edition, is updated for MongoDB 3 and includes all of the latest MongoDB features, including the aggregation framework introduced in version and hashed indexes in version The Third Edition also now includes Python.