Practical Use Cases with the Leading NoSQL Database

MongoDB
Applied Design
Patterns

Rick Copeland

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MongoDB Applied Design Patterns Rick Copeland,2013-03-04 Whether you re building a social media site or an internal use enterprise application this hands on guide shows you the connection between MongoDB and the business problems it s designed to solve You ll learn how to apply MongoDB design patterns to several challenging domains such as ecommerce content management and online gaming Using Python and JavaScript code examples you ll discover how MongoDB lets you scale your data model while simplifying the development process Many businesses launch NoSQL databases without understanding the techniques for using their features most effectively This book demonstrates the benefits of document embedding polymorphic schemas and other MongoDB patterns for tackling specific big data use cases including Operational intelligence Perform real time analytics of business data Ecommerce Use MongoDB as a product catalog master or inventory management system Content management Learn methods for storing content nodes binary assets and discussions Online advertising networks Apply techniques for frequency capping ad impressions and keyword targeting and bidding Social networking Learn how to store a complex social graph modeled after Google Online gaming Provide concurrent access to character and world data for a multiplayer role playing game *MongoDB Applied Design Patterns* Rick Copeland,2013-03-15 Whether you re building the newest and hottest social media web site or developing an internal use only enterprise business intelligence application scaling your data model has never been more important Traditional relational databases while familiar present significant challenges and complications when trying to scale up to such big data needs Into this world steps MongoDB a leading NoSQL database to address these scaling challenges while also simplifying the process of development However in all the hype surrounding big data many sites have launched their business on NoSQL databases without an understanding of the techniques necessary to effectively use the features of their chosen database MongoDB Applied Design Patterns provides the much needed connection between the features of MongoDB and the business problems that it is suited to solve The book s focus on the practical aspects of the MongoDB implementation makes it an ideal purchase for developers charged with bringing MongoDB s scalability to bear on the particular problem you ve been tasked to solve *NoSQL for Mere Mortals* Dan Sullivan,2015-04-06 The Easy Common Sense Guide to Solving Real Problems with NoSQL The Mere Mortals tutorials have earned worldwide praise as the clearest simplest way to master essential database technologies Now there s one for today s exciting new NoSQL databases NoSQL for Mere Mortals guides you through solving real problems with NoSQL and achieving unprecedented scalability cost efficiency flexibility and availability Drawing on 20 years of cutting edge database experience Dan Sullivan explains the advantages use cases and terminology associated with all four main categories of NoSQL databases key value document column family and graph databases For each he introduces pragmatic best practices for building high value applications Through step by step examples you ll discover how to choose the right database for each task and use it the right way Coverage includes Getting started What NoSQL databases are how

they differ from relational databases when to use them and when not to Data management principles and design criteria Essential knowledge for creating any database solution NoSQL or relational Key value databases Gaining more utility from data structures Document databases Schemaless databases normalization and denormalization mutable documents indexing and design patterns Column family databases Google s BigTable design table design indexing partitioning and Big Data Graph databases Graph network modeling design tips query methods and traps to avoid Whether you re a database developer data modeler database user or student learning NoSQL can open up immense new opportunities As thousands of database professionals already know For Mere Mortals is the fastest easiest route to mastery   Mongodb Applied Design Patterns Louis E. Ball,2015-08-19 This updated and expanded second edition of the MongoDB Applied Design Patterns provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business

   Developing with MongoDB Rick Copeland,2017 MongoDB is the most popular NoSQL database in the market today With support for real time analytics it is being used by many big enterprises for efficient and fast processing of data The importance of NoSQL databases and particularly MongoDB has also increased with the rise of IoT Spanning over 4 hours this tutorial will show you how you can get the most out of MongoDB s advanced features with ease After getting a quick overview of the basics of MongoDB you will directly jump to covering the concepts related to advanced data modelling complex querying indexing and database operations You will also implement a highly available MongoDB database for high performance by implementing techniques like sharding aggregation and replication Finally you will also cover aspects like cloud deployment which is important when it comes to web applications and integration with Hadoop for fast and efficient Big Data processing By the end of this tutorial you will have mastered all the concepts of MongoDB when it comes to querying data modelling and the other database operations Resource description page   The Little Mongo DB Schema Design Book Christian Kvalheim,2015-05-20 The Little MongoDB Schema Design Book covers the fundamentals off Schema design with MongoDB as well as several useful Schema design patters for your applications I wrote this book to be a helpful and concise guide to MongoDB Schema design as well as a repository to look up specific MongoDB Schema patterns This book came around due to my experiences teaching people about using MongoDB for application development It tries to cover essential information that you can apply to your own applications We cover a lot of different aspects of Schema Design in this book These include Schema Basics including one to one one to many and many to many relationships Embedding versus linking Bucketing Strategy Understanding the MongoDB MMAP and WiredTiger storage engine MongoDB Indexes The Metadata Schema Pattern Time Series Schema Pattern Queues Schema Pattern Nested Categories Schema Pattern Account

Transactions Schema Pattern Shopping Cart Schema Pattern with and without product reservation A Theater Ticket Reservation Schema Pattern An Embedded Array Cache Schema Pattern An Internationalization Schema Pattern Sharding The book aims to provide developers with a deep but concise understanding of how to efficiently work with MongoDB

   MongoDB Tools and Services Rick Copeland,2017 The course takes you through real world examples that you can watch and use directly for your application You will learn the ins and outs through the hacks covered in the course This is your one stop course to boost your application performance for your audience In this video course we will explore the profiling and performance tools for MongoDB We will make it even more accessible by moving to MongoDB cloud services including analytics automation and even database as a service Finally we will show different MongoDB cluster architectures affect application performance scalability and reliability Resource description page

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