

MongoDB Data Modeling

By Wilson da Rocha Franca

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MongoDB Data Modeling By Wilson da Rocha Franca

Focus on data usage and better design schemas with the help of MongoDB

About This Book

- Create reliable, scalable data models with MongoDB
- Optimize the schema design process to support applications of all kinds
- Use this comprehensive guide to implement advanced schema designs

Who This Book Is For

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.

What You Will Learn

- Optimize your models based on priorities
- Discover the schemaless document-oriented database design
- Improve the process of querying a document with the help of indexing
- Set up a sharded environment with replication
- Configure the read preference in accordance with your application's requirements
- Create effective indexes that will fit your application needs
- Understand how to analyze the performance of your queries to avoid performance issues

In Detail

This book covers the basic concepts in data modeling and also provides you with the tools to design better schemas. With a focus on data usage, this book will cover how queries and indexes can influence the way we design schemas, with thorough examples and detailed code.

The book begins with a brief discussion of data models, drawing a parallel between relational databases, NoSQL, and consequently MongoDB. Next, the book explains the most basic MongoDB concepts, such as read and write

operations, indexing, and how to design schemas by knowing how applications will use the data. Finally, we will talk about best practices that will help you optimize and manage your database, presenting you with a real-life example of data modeling on a real-time logging analytics application.

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MongoDB Data Modeling By Wilson da Rocha Franca Bibliography

- Sales Rank: #849986 in Books
- Published on: 2015-06-30
- Released on: 2015-06-22
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .46" w x 7.50" l, .78 pounds
- Binding: Paperback
- 176 pages

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Editorial Review

About the Author

Wilson da Rocha Franca

Wilson da Rocha Franca is a system architect at the leading online retail company in Latin America. An IT professional, passionate about computer science, and an open source enthusiast, he graduated with a university degree from Centro Federal de Educacao Tecnologica Celso Suckow da Fonseca, Rio de Janeiro, Brazil, in 2005 and holds a master's degree in Business Administration from Universidade Federal de Rio de Janeiro, gained in 2010. Passionate about e-commerce and the Web, he has had the opportunity to work not only in online retail but in other markets such as comparison shopping and online classifieds. He has dedicated most of his time to being a Java web developer. He worked as a reviewer on Instant Varnish Cache How-to and Arduino Development Cookbook, both by Packt Publishing.

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