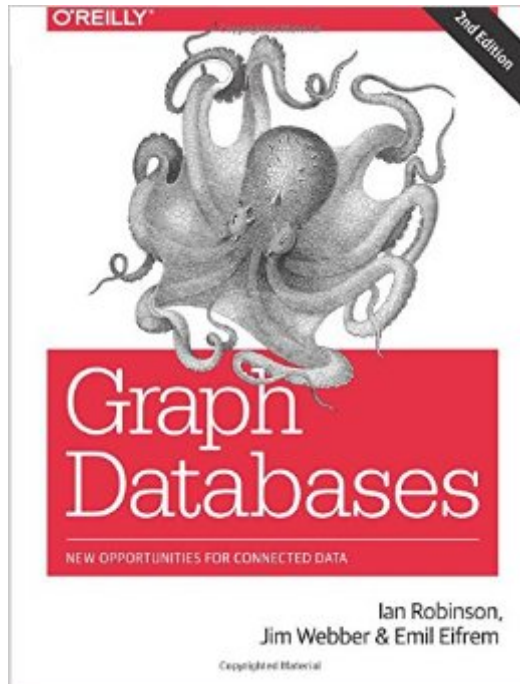# Graph Databases: New Opportunities For Connected Data

Synopsis

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. This second edition includes new code samples and diagrams, using the latest Neo4j syntax, as well as information on new functionality. 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 modelLearn best practices and common pitfalls when modeling with graphsPlan and implement a graph database solution in test-driven fashionExplore real-world examples to learn how and why organizations use a graph databaseUnderstand common patterns and components of graph database architectureUse analytical techniques and algorithms to mine graph database information

Book Information

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Customer Reviews

The book is too shallow and is rather a collection of marketing materials rather than a technical reference and guide. The book goes on and on on how good the graph databases are compared to the relational ones without really explaining how you can achieve performance in such tasks having

just the single-dimensional computer memory. The examples demonstrate primitive scenarios that are far from, say, a need to model behaviour of all companies in a national market trading different goods and services using different contracts, representatives / dealers / agents, different payment terms / banks and shipping. That actually marketing booklet avoids this question very carefully as if it was not the main challenge for national governments and economists worldwide. Weaknesses of graph databases are not mentioned at all. The book is too small for $20 Kindle edition. Having this professional deepness it should offer at least 800 pages of simple news-like reading entertainment. This is the second O'Reilly book that I have tried and again I am disappointed that the mystical animal design misleads you into believing that the book has thoroughness and depth of a biological organism. I hope the O'Reilly men did not mean the audience by that picture as it would be a real offence. We deserve better books for that price and your nice designs on the cover won't help you anymore. Not buying a third one, but may recommend for a secondary school.

A great book for tech professionals.I always surprised as people think that all tech book are for beginners and newbies. The assumption that any tech book is for tech professional is proper and any tech professional would understand all the material provided in this book.For non-tech people: this book is not about SQL, RMDB or graph theory.

I started reading the "Look Inside" for this book and I could not put it down. Purchased the kindle version, continued reading on my Kindle Fire at home, on my cloud reader at work, I am learning so much so fast I cannot believe it. I arrived at this book with about 18 years database programming experience, but had never seen anything about graph databases before. This is a totally awesome book!

This book definitely requires that you have some expertise with existing database patterns. If you've already written SQL, and learned about the various flavors of NoSql, the book provides a cogent introduction graph databases all in one place.

This book is only useful for those with considerable experience in databases. The authors make numerous assumptions about the reader's knowledge and experience and within 15 pages I was basically lost. For example they talk about Key-value pairs, labels, relationships, vertices, and edges. They then give diagrams to illustrate these terms, but don't label them on the diagram so you're left wondering what is a node? What is a key-value pair? etc. In other words, the

explanations don't explain, and the diagrams do not illustrate. They talk about the relationship between graph databases and the "underlying storage", but do not indicate what they mean by "underlying storage". Do they mean the physical device? Do they mean the database system? Do they mean the manner in which the data is stored on the physical device? grrr...They make far too many assumptions about the reader's knowledge, and speak in abstract and unclear terms. Here is an example: "Graphs are naturally additive, meaning we can add new kinds of relationships, new nodes, new labels, and new subgraphs to an existing structure without disturbing existing queries and application functionality." Huh? You can't add data, relationships, etc to other kinds of databases? Example, please.This might all be fine, if they would simply state at the outset -- as is normally the case with technical material -- who should read the book and the level of knowledge they are assuming. As it stands, this book is only useful to those with a background in databases, data structures, storage technology, and graph theory. Two stars, which is generous.

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