



NoSQL Distilled: A Brief Guide to the Emerging World of Polyglot Persistence

By Pramod J. Sadalage, Martin Fowler



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The need to handle increasingly larger data volumes is one factor driving the adoption of a new class of nonrelational “NoSQL” databases. Advocates of NoSQL databases claim they can be used to build systems that are more performant, scale better, and are easier to program.

NoSQL Distilled is a concise but thorough introduction to this rapidly emerging technology. Pramod J. Sadalage and Martin Fowler explain how NoSQL databases work and the ways that they may be a superior alternative to a traditional RDBMS. The authors provide a fast-paced guide to the concepts you need to know in order to evaluate whether NoSQL databases are right for your needs and, if so, which technologies you should explore further.

The first part of the book concentrates on core concepts, including schemaless data models, aggregates, new distribution models, the CAP theorem, and map-reduce. In the second part, the authors explore architectural and design issues associated with implementing NoSQL. They also present realistic use cases that demonstrate NoSQL databases at work and feature representative examples using Riak, MongoDB, Cassandra, and Neo4j.

In addition, by drawing on Pramod Sadalage’s pioneering work, **NoSQL Distilled** shows how to implement evolutionary design with schema migration: an essential technique for applying NoSQL databases. The book concludes by describing how NoSQL is ushering in a new age of Polyglot Persistence, where multiple data-storage worlds coexist, and architects can choose the technology best optimized for each type of data access.

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Editorial Review

About the Author

Pramod J. Sadalage, Principal Consultant at ThoughtWorks, enjoys the rare role of bridging the divide between database professionals and application developers. He regularly consults with clients who have particularly challenging data needs requiring new technologies and techniques. He developed pioneering techniques that allowed relational databases to be designed in an evolutionary manner based on version-controlled schema migrations. With Scott Ambler, he coauthored *Refactoring Databases*(Addison-Wesley, 2006).

Martin Fowler, Chief Scientist at ThoughtWorks, focuses on better ways to design software systems and improve developer productivity. His books include *Patterns of Enterprise Application Architecture*; *UML Distilled, Third Edition*; *Domain-Specific Languages* (with Rebecca Parsons); and *Refactoring: Improving the Design of Existing Code* (with Kent Beck, John Brant, and William Opdyke). All are published by Addison-Wesley.

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