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Nota di contenuto Contents at a Glance; Contents; About the Author; About the Technical Reviewer; Chapter 1: Why NoSQL?; What Is JSON?; What Is Wrong with SQL?; Advantages of NoSQL Databases; Scalability ; Ultra-High Availability ; Commodity Hardware; Flexible Schema or No Schema; Big Data; Object-Oriented Programming ; Performance; Failure Handling ; Less Administration ; Asynchronous Replication with Auto-Failover; Caching for Read and Write Performance; Cloud Enabled ; What Has Big Data Got to Do with NoSQL?; NoSQL Is Not without Drawbacks; BASE, Not ACID; Still New to the Field
Vendor Support Is Lacking Why Couchbase Server?; Flexible Schema JSON Documents ; Scalability ; Auto-Sharding Cluster Technology ; High Performance from High Throughput and Low Latency; Cluster High Availability ; Cross Data Center Replication; Data Locality ; Rack Awareness ; Multiple Readers and Writers ; Support for Commonly Used Object-Oriented Languages; Administration and Monitoring GUI ; Who Uses Couchbase Server and for What?; Summary; Chapter 2: Using

Sommario/riassunto	Pro Couchbase Development: A NoSQL Platform for the Enterprise discusses programming for Couchbase using Java and scripting languages, querying and searching, handling migration, and integrating Couchbase with Hadoop, HDFS, and JSON. It also discusses migration from other NoSQL databases like MongoDB. This book is for big data developers who use Couchbase NoSQL database or want to use Couchbase for their web applications as well as for those migrating from other NoSQL databases like MongoDB and Cassandra. 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. The author supplies examples in Java, PHP, Ruby, and JavaScript. After reading and using this hands-on guide for developing with Couchbase, you'll be able to build complex enterprise, database and cloud applications that leverage this powerful platform.