Practical Hadoop Migration: How to Integrate Your RDBMS with the Hadoop Ecosystem and Re-Architect Relational Applications to NoSQL

By Bhushan Lakhe

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Re-architect relational applications to NoSQL, integrate relational database management systems with the Hadoop ecosystem, and transform and migrate relational data to and from Hadoop components. This book covers the best-practice design approaches to re-architecting your relational applications and transforming your relational data to optimize concurrency, security, denormalization, and performance.

Winner of IBM's 2012 Gerstner Award for his implementation of big data and data warehouse initiatives and author of *Practical Hadoop Security*, author Bhushan Lakhe walks you through the entire transition process. First, he lays out the criteria for deciding what blend of re-architecting, migration, and integration between RDBMS and HDFS best meets your transition objectives. Then he demonstrates how to design your transition model.

Lakhe proceeds to cover the selection criteria for ETL tools, the implementation steps for migration with SQOOP- and Flume-based data transfers, and transition optimization techniques for tuning partitions, scheduling aggregations, and redesigning ETL. Finally, he assesses the pros and cons of data lakes and Lambda architecture as integrative solutions and illustrates their implementation with real-world case studies.

Hadoop/NoSQL solutions do not offer by default certain relational technology features such as role-based access control, locking for concurrent updates, and various tools for measuring and enhancing performance. *Practical Hadoop Migration* shows how to use open-source tools to emulate such relational functionalities in Hadoop ecosystem components.

What You'll Learn

- Decide whether you should migrate your relational applications to big data technologies or integrate them
- Transition your relational applications to Hadoop/NoSQL platforms in terms of logical design and physical implementation
- Discover RDBMS-to-HDFS integration, data transformation, and optimization techniques
- Consider when to use Lambda architecture and data lake solutions
- Select and implement Hadoop-based components and applications to speed transition, optimize integrated performance, and emulate relational functionalities

Who This Book Is For

Database developers, database administrators, enterprise architects, Hadoop/NoSQL developers, and IT leaders. Its secondary readership is project and program managers and advanced students of database and management information systems.

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Editorial Review

About the Author
Bhushan Lakhe is Senior Vice President of Information and Data Architecture at Ipsos, a global market research company headquartered in Paris. He has more than 25 years experience in software development life cycle management, enterprise architecture design and framework implementation, service management, data warehousing, and Hadoop ecosystem (HDFS, HBase, Hive, Pig, SQOOP, MongoDB) implementation, having worked successively at Tata Consultancy Services, Fujitsu-ICIM, ICL, IBM, Unisys Corporation, and as a database architecture consultant to such clients as Leo Burnett, ABN AMRO Bank, Abbott Laboratories, Motorola, JPMorgan Chase, and British Petroleum. He received IBM's 2012 Gerstner Award for his implementation of major big data and data warehouse projects. Lakhe is a Cloudera Certified Administrator for Apache Hadoop CDH4 and a Microsoft Certified Technology Specialist, SQL Server Implementation and Maintenance. He is the author of Practical Hadoop Security. He is active in the Chicago Hadoop community and as a speaker at technical meetups and industry conferences. Lakhe graduated from the Birla Institute of Technology and Science, Pilani.

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Sanjuanita Mecham:

Spent a free time for you to be fun activity to complete! A lot of people spent their spare time with their family, or their very own friends. Usually they accomplishing activity like watching television, planning to beach, or picnic within the park. They actually doing same thing every week. Do you feel it? Do you want to something different to fill your own free time/ holiday? Might be reading a book could be option to fill your cost-free time/ holiday. The first thing that you will ask may be what kinds of publication that you should read. If you want to try out look for book, may be the reserve untitled Practical Hadoop Migration: How to Integrate Your RDBMS with the Hadoop Ecosystem and Re-Architect Relational Applications to NoSQL can be fine book to read. May be it could be best activity to you.

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