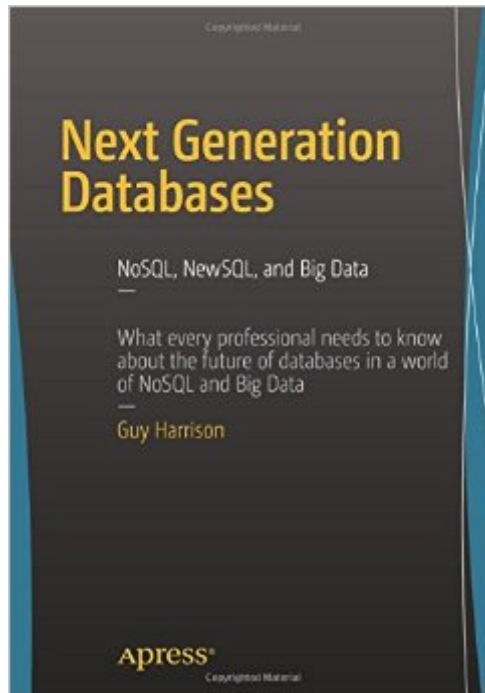# Next Generation Databases: NoSQLand Big Data

Synopsis

"Itâ ™s not easy to find such a generous book on big data and databases. Fortunately, this book is the one." Feng Yu. Computing Reviews. June 28, 2016. This is a book for enterprise architects, database administrators, and developers who need to understand the latest developments in database technologies. It is the book to help you choose the correct database technology at a time when concepts such as Big Data, NoSQL and NewSQL are making what used to be an easy choice into a complex decision with significant implications. The relational database (RDBMS) model completely dominated database technology for over 20 years. Today this "one size fits all" stability has been disrupted by a relatively recent explosion of new database technologies. These paradigm-busting technologies are powering the "Big Data" and "NoSQL" revolutions, as well as forcing fundamental changes in databases across the board. Deciding to use a relational database was once truly a no-brainer, and the various commercial relational databases competed on price, performance, reliability, and ease of use rather than on fundamental architectures. Today we are faced with choices between radically different database technologies. Choosing the right database today is a complex undertaking, with serious economic and technological consequences. Next Generation Databases demystifies todayâ ™s new database technologies. The book describes what each technology was designed to solve. It shows how each technology can be used to solve real word application and business problems. Most importantly, this book highlights the architectural differences between technologies that are the critical factors to consider when choosing a database platform for new and upcoming projects.Introduces the new technologies that have revolutionized the database landscapeDescribes how each technology can be used to solve specific application or business challengesReviews the most popular new wave databases and how they use these new database technologies

Book Information

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Customer Reviews

Hi,I have written a detailed chapter-by-chapter review of this book on www DOT i-programmer DOT info, the first and last parts of this review are given here. For my review of all chapters, search i-programmer DOT info for STIRK together with the book's title.This book aims to help you choose the correct database technology, in the era of Big Data, NoSQL, and NewSQL, how does it fare?This book is aimed at â œenterprise architects, database administrators, and developers who need to understand the latest developments in database technologiesâ •. Some existing knowledge of databases (relational and NoSQL) is useful in understanding the book.Below is a chapter-by-chapter exploration of the topics covered.Part I: Next Generation DatabasesChapter 1 Three Database RevolutionsThe book opens with a diagram showing the timeline of major database releases, being divided into: pre-relational (1950-1972), relational (1972-2005), and Next Generation (2005-2015). This book is concerned with the Next Generation databases, but first a bit of history and context...The chapter takes a brief look at the first database revolution, involving Database Management Systems (DBMS) such as hierarchical databases (e.g. IMS) and network databases (e.g. IDMS) , running on mainframes. These systems were relatively inflexible and difficult to maintain.Next, the second database revolution is examined, concerned with the widely used relational databases (RDBMS). These are based on relational theory, with its tuples, relations, constraints, normalization, and transactions. The widespread adoption of SQL enhanced their usage.

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