



Distributed Database Systems

W. Kim, D.S. Reiner, Don Batory



Distributed Database Systems:

Distributed Database Systems Ray, Chhanda, 2008 Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology The mainstream areas of distributed database technology such as distributed database design distributed DBMS architecture

Principles of Distributed Database Systems M. Tamer Özsu, Patrick Valduriez, 2011-02-24 This third edition of a classic textbook can be used to teach at the senior undergraduate and graduate levels The material concentrates on fundamental theories as well as techniques and algorithms The advent of the Internet and the World Wide Web and more recently the emergence of cloud computing and streaming data applications has forced a renewal of interest in distributed and parallel data management while at the same time requiring a rethinking of some of the traditional techniques This book covers the breadth and depth of this re-emerging field The coverage consists of two parts The first part discusses the fundamental principles of distributed data management and includes distribution design data integration distributed query processing and optimization distributed transaction management and replication The second part focuses on more advanced topics and includes discussion of parallel database systems distributed object management peer to peer data management web data management data stream systems and cloud computing New in this Edition New chapters covering database replication database integration multidatabase query processing peer to peer data management and web data management Coverage of emerging topics such as data streams and cloud computing Extensive revisions and updates based on years of class testing and feedback Ancillary teaching materials are available

Distributed Databases Stefano Ceri, Giuseppe Pelagatti, 1984

Distributed Database Management Systems Saeed K. Rahimi, Frank S. Haug, 2015-02-13 This book addresses issues related to managing data across a distributed database system It is unique because it covers traditional database theory and current research explaining the difficulties in providing a unified user interface and global data dictionary The book gives implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users It also includes three sample frameworks implemented using J2SE with JMS J2EE and Microsoft Net that readers can use to learn how to implement a distributed database management system IT and development groups and computer sciences software engineering graduates will find this guide invaluable

Distributed Database Systems Chhanda Ray, Ray, 2009 Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology The material is up to date highly readable and illustrated with numerous practical examples The mainstream areas of distributed database technology such as distributed database design distributed DBMS architectures distributed transaction management distributed concurrency control deadlock handling in distributed systems distributed recovery management distributed query processing and optimization data security and catalog management have been covered in detail The popular distributed database systems SDD 1 and R have also been included

Principles of Distributed Database Systems M. Tamer Özsu, Patrick Valduriez, 2019-12-02 The fourth edition of

this classic textbook provides major updates This edition has completely new chapters on Big Data Platforms distributed storage systems MapReduce Spark data stream processing graph analytics and on NoSQL NewSQL and polystore systems It also includes an updated web data management chapter that includes RDF and semantic web discussion an integrated database integration chapter focusing both on schema integration and querying over these systems The peer to peer computing chapter has been updated with a discussion of blockchains The chapters that describe classical distributed and parallel database technology have all been updated The new edition covers the breadth and depth of the field from a modern viewpoint Graduate students as well as senior undergraduate students studying computer science and other related fields will use this book as a primary textbook Researchers working in computer science will also find this textbook useful This textbook has a companion web site that includes background information on relational database fundamentals query processing transaction management and computer networks for those who might need this background The web site also includes all the figures and presentation slides as well as solutions to exercises restricted to instructors

Concurrency Control in Distributed Database Systems W. Cellary, T. Morzy, E. Gelenbe, 2014-06-28 Distributed Database Systems DDBS may be defined as integrated database systems composed of autonomous local databases geographically distributed and interconnected by a computer network The purpose of this monograph is to present DDBS concurrency control algorithms and their related performance issues The most recent results have been taken into consideration A detailed analysis and selection of these results has been made so as to include those which will promote applications and progress in the field The application of the methods and algorithms presented is not limited to DDBSs but also relates to centralized database systems and to database machines which can often be considered as particular examples of DDBSs The first part of the book is devoted to basic definitions and models the distributed database model the transaction model and the syntactic and semantic concurrency control models The second discusses concurrency control methods in monoversion DDBSs the locking method the timestamp ordering method the validation method and hybrid methods For each method the concept the basic algorithms a hierarchical version of the basic algorithms and methods for avoiding performance failures are given The third section covers concurrency control methods in multiversion DDBSs and the fourth methods for the semantic concurrency model The last part concerns performance issues of DDBSs The book is intended primarily for DDBMS designers but is also of use to those who are engaged in the design and management of databases in general as well as in problems of distributed system management such as distributed operating systems and computer networks

Distributed Systems: Distributed database systems Wesley W. Chu, 1986 [Distributed and Multi-database Systems](#) Angelo R. Bobak, 1993 This book offers a practical approach to understanding and implementing distributed and multi database systems across the enterprise By reinforcing concepts with specific methodologies exercises and examples this guide enables programmers systems designers and IS managers to meet the challenge of managing data across different platforms This extremely practical book addresses

real world problems faced when migrating to distributed and multi database architectures and includes an in depth discussion of federated database systems and the role expert systems play in multi database architectures Content highlights include Distributed Query Concurrency and Recovery SQL Basics and Design Implementation Issues *Data Management Systems* Bhavani Thuraisingham,1997-05-19 As the information contained in databases has become a critical resource in organizations efficient access to that information and the ability to share it among different users and across different systems has become an urgent need The interoperability of heterogeneous database systems literally the ability to access information between or among differing types of databases is the topic of this timely book In the last two decades tremendous improvements in tools and technologies have resulted in new products that provide distributed data processing capabilities This book describes these tools and emerging technologies explaining the essential concepts behind the topics but focusing on practical applications Selected products are discussed to illustrate the characteristics of the different technologies This is an ideal source for anyone who needs a broad perspective on heterogeneous database integration and related technologies *Mobile Database Systems* Vijay Kumar,2006-07-06 A breakthrough sourcebook to the challenges and solutions for mobile database systems This text enables readers to effectively manage mobile database systems MDS and data dissemination via wireless channels The author explores the mobile communication platform and analyzes its use in the development of a distributed database management system Workable solutions for key challenges in wireless information management are presented throughout the text Following an introductory chapter that includes important milestones in the history and development of mobile data processing the text provides the information tools and resources needed for MDS management including Fundamentals of wireless communication Location and handoff management Fundamentals of conventional database management systems and why existing approaches are not adequate for mobile databases Concurrency control mechanism schemes Data processing and mobility Management of transactions Mobile database recovery schemes Data dissemination via wireless channels Case studies and examples are used liberally to aid in the understanding and visualization of complex concepts Various exercises enable readers to test their grasp of each topic before advancing in the text Each chapter also concludes with a summary of key concepts as well as references for further study Professionals in the mobile computing industry particularly e commerce will find this text indispensable With its extensive use of case studies examples and exercises it is also highly recommended as a graduate level textbook *Query Processing in Database Systems* W. Kim,D.S. Reiner,Don Batory,2012-12-06 This book is an anthology of the results of research and development in database query processing during the past decade The relational model of data provided tremendous impetus for research into query processing Since a relational query does not specify access paths to the stored data the database management system DBMS must provide an intelligent query processing subsystem which will evaluate a number of potentially efficient strategies for processing the query and select the one that optimizes a given performance measure The

degree of sophistication of this subsystem often called the optimizer critically affects the performance of the DBMS Research into query processing thus started has taken off in several directions during the past decade The emergence of research into distributed databases has enormously complicated the tasks of the optimizer In a distributed environment the database may be partitioned into horizontal or vertical fragments of relations Replicas of the fragments may be stored in different sites of a network and even migrate to other sites The measure of performance of a query in a distributed system must include the communication cost between sites To minimize communication costs for queries involving multiple relations across multiple sites optimizers may also have to consider semi join techniques

Database Systems S. K. Singh, 2009 This book is a comprehensive practical and student friendly textbook addressing fundamental concepts in database design and applications

Database Directions James A. Larson, 1995 While solving numerous database management problems relational database systems are generally limited to centralized systems supporting only structured data Now Database Directions introduces database management technologies and techniques that take readers beyond the limitations of today's relational database management systems

A Framework for Distributed Database Systems, 1982

Management of Heterogeneous and Autonomous Database Systems Ahmed K. Elmagarmid, Marek Rusinkiewicz, Amit Sheth, 1999 An Overview of Multidatabase Systems Past and Present Athman Bouguettaya Boualem Benatallah Ahmed Elmagarmid Local Autonomy and Its Effects on Multidatabase Systems Ahmed Elmagarmid Weimin Du Rafi Ahmed Semantic Similarities Between Objects in Multiple Databases Vipul Kashyap Amit Sheth Resolution of Representational Diversity in Multidatabase Systems Joachim Hammer Dennis McLeod Schema Integration Past Present and Future Sudha Ram V Ramesh Schema and Language Translation Bogdan Czejdo Le Gruenwald Multidatabase Languages Paolo Missier Marek Rusinkiewicz W Jin Interdependent Database Systems George Karabatis Marek Rusinkiewicz Amit Sheth Correctness Criteria and Concurrency Control Panos K Chrysanthis Krithi Ramamritham Transaction Management in Multidatabase Systems Current Technologies and Formalisms Ken Barker Ahmed Elmagarmid Transaction Based Recovery Jari Veijalainen

Principles Of Distributed Database Systems M Tamer Ozsu, Patrick Valduriez, S Sridhar, 2011

Object Management in Distributed Database Systems for Stationary and Mobile Computing Environments Wujuan Lin, Bharadwaj Veeravalli, 2013-11-21 Network based computing domain unifies all best research efforts presented from single computer systems to networked systems to render overwhelming computational power for several modern day applications Although this power is expected to grow with respect to time due to technological advancements application requirements impose a continuous thrust on network utilization and on the resources to deliver supreme quality of service Strictly speaking network based computing domain has no confined scope and each element offers considerable challenges Any modern day networked application strongly thrives on efficient data storage and management system which is essentially a Database System There have been number of books to date in this domain that discuss fundamental principles of designing a database system Research in this domain is now far

matured and many researchers are venturing in this domain continuously due to a wide variety of challenges posed. In this book, our domain of interest is in exposing the underlying key challenges in designing algorithms to handle unpredictable requests that arrive at a Distributed Database System (DDBS) and evaluating their performance. These requests are otherwise called as on-line requests arriving at a system to process transactions in an on-line banking service, airline reservation system, video on demand system, etc. are a few examples of on-line requests.

Distributed Database Systems David A. Bell, Jane B. Grimson, 1992. This book adopts a practical approach, reviewing the fundamentals of database technology and developments in data communications, including standards, before reviewing the principles of distributed DB systems. It includes case studies of the leading products.

Database Internals Alex Petrov, 2019-09-13. When it comes to choosing, using, and maintaining a database, understanding its internals is essential. But with so many distributed databases and tools available today, it's often difficult to understand what each one offers and how they differ. With this practical guide, Alex Petrov guides developers through the concepts behind modern database and storage engine internals. Throughout the book, you'll explore relevant material gleaned from numerous books, papers, blog posts, and the source code of several open-source databases. These resources are listed at the end of parts one and two. You'll discover that the most significant distinctions among many modern databases reside in subsystems that determine how storage is organized and how data is distributed. This book examines storage engines, explores storage classification and taxonomy, and dives into B-tree based and immutable log-structured storage engines, with differences and use cases for each. Storage building blocks: Learn how database files are organized to build efficient storage using auxiliary data structures such as page cache, buffer pool, and write-ahead log. Distributed systems: Learn step-by-step how nodes and processes connect and build complex communication patterns. Database clusters: Which consistency models are commonly used by modern databases and how distributed storage systems achieve consistency.

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