

Elena Ferrari

Access Control in Data Management Systems

Access Control In Data Management Systems Elena Ferrari

**Suyash Gupta, Jelle
Hellings, Mohammad Sadoghi**



Access Control In Data Management Systems Elena Ferrari:

Secure Data Management in Decentralized Systems Ting Yu, Sushil Jajodia, 2007-05-11 The field of database security has expanded greatly with the rapid development of global inter networked infrastructure Databases are no longer stand alone systems accessible only to internal users of organizations Today businesses must allow selective access from different security domains New data services emerge every day bringing complex challenges to those whose job is to protect data security The Internet and the web offer means for collecting and sharing data with unprecedented flexibility and convenience presenting threats and challenges of their own This book identifies and addresses these new challenges and more offering solid advice for practitioners and researchers in industry

Data Management in the Cloud Divyakant Agrawal, Sudipto Das, Amr El Abbadi, 2022-05-31 Cloud computing has emerged as a successful paradigm of service oriented computing and has revolutionized the way computing infrastructure is used This success has seen a proliferation in the number of applications that are being deployed in various cloud platforms There has also been an increase in the scale of the data generated as well as consumed by such applications Scalable database management systems form a critical part of the cloud infrastructure The attempt to address the challenges posed by the management of big data has led to a plethora of systems This book aims to clarify some of the important concepts in the design space of scalable data management in cloud computing infrastructures Some of the questions that this book aims to answer are the appropriate systems for a specific set of application requirements the research challenges in data management for the cloud and what is novel in the cloud for database researchers We also aim to address one basic question whether cloud computing poses new challenges in scalable data management or it is just a reincarnation of old problems We provide a comprehensive background study of state of the art systems for scalable data management and analysis We also identify important aspects in the design of different systems and the applicability and scope of these systems A thorough understanding of current solutions and a precise characterization of the design space are essential for clearing the cloudy skies of data management and ensuring the success of DBMSs in the cloud thus emulating the success enjoyed by relational databases in traditional enterprise settings Table of Contents Introduction Distributed Data Management Cloud Data Management Early Trends Transactions on Co located Data Transactions on Distributed Data Multi tenant Database Systems Concluding Remarks

Access Control in Data Management Systems Elena Ferrari, 2010-03-03 Access control is one of the fundamental services that any Data Management System should provide Its main goal is to protect data from unauthorized read and write operations This is particularly crucial in today s open and interconnected world where each kind of information can be easily made available to a huge user population and where a damage or misuse of data may have unpredictable consequences that go beyond the boundaries where data reside or have been generated This book provides an overview of the various developments in access control for data management systems Discretionary mandatory and role based access control will be discussed by surveying

the most relevant proposals and analyzing the benefits and drawbacks of each paradigm in view of the requirements of different application domains Access control mechanisms provided by commercial Data Management Systems are presented and discussed Finally the last part of the book is devoted to discussion of some of the most challenging and innovative research trends in the area of access control such as those related to the Web 2.0 revolution or to the Database as a Service paradigm This book is a valuable reference for an heterogeneous audience It can be used as either an extended survey for people who are interested in access control or as a reference book for senior undergraduate or graduate courses in data security with a special focus on access control It is also useful for technologists researchers managers and developers who want to know more about access control and related emerging trends

Table of Contents Access Control Basic Concepts Discretionary Access Control for Relational Data Management Systems Discretionary Access Control for Advanced Data Models Mandatory Access Control Role based Access Control Emerging Trends in Access Control Spatial Data Management

Nikos Mamoulis, 2022-06-01 Spatial database management deals with the storage indexing and querying of data with spatial features such as location and geometric extent Many applications require the efficient management of spatial data including Geographic Information Systems Computer Aided Design and Location Based Services The goal of this book is to provide the reader with an overview of spatial data management technology with an emphasis on indexing and search techniques It first introduces spatial data models and queries and discusses the main issues of extending a database system to support spatial data It presents indexing approaches for spatial data with a focus on the R tree Query evaluation and optimization techniques for the most popular spatial query types selections nearest neighbor search and spatial joins are portrayed for data in Euclidean spaces and spatial networks The book concludes by demonstrating the ample application of spatial data management technology on a wide range of related application domains management of spatio temporal data and high dimensional feature vectors multi criteria ranking data mining and OLAP privacy preserving data publishing and spatial keyword search

Table of Contents Introduction Spatial Data Indexing Spatial Query Evaluation Spatial Networks Applications of Spatial Data Management Technology *Non-Volatile Memory Database Management Systems* Joy Arulraj, Andrew Pavlo, 2022-06-01 This book explores the implications of non volatile memory NVM for database management systems DBMSs The advent of NVM will fundamentally change the dichotomy between volatile memory and durable storage in DBMSs These new NVM devices are almost as fast as volatile memory but all writes to them are persistent even after power loss Existing DBMSs are unable to take full advantage of this technology because their internal architectures are predicated on the assumption that memory is volatile With NVM many of the components of legacy DBMSs are unnecessary and will degrade the performance of data intensive applications We present the design and implementation of DBMS architectures that are explicitly tailored for NVM The book focuses on three aspects of a DBMS 1 logging and recovery 2 storage and buffer management and 3 indexing First we present a logging and recovery protocol that enables the DBMS to

support near instantaneous recovery Second we propose a storage engine architecture and buffer management policy that leverages the durability and byte addressability properties of NVM to reduce data duplication and data migration Third the book presents the design of a range index tailored for NVM that is latch free yet simple to implement All together the work described in this book illustrates that rethinking the fundamental algorithms and data structures employed in a DBMS for NVM improves performance and availability reduces operational cost and simplifies software development

Fault-Tolerant Distributed Transactions on Blockchain Suyash Gupta, Jelle Hellings, Mohammad Sadoghi, 2022-06-01

Since the introduction of Bitcoin the first widespread application driven by blockchain the interest of the public and private sectors in blockchain has skyrocketed In recent years blockchain based fabrics have been used to address challenges in diverse fields such as trade food production property rights identity management aid delivery health care and fraud prevention This widespread interest follows from fundamental concepts on which blockchains are built that together embed the notion of trust upon which blockchains are built 1 Blockchains provide data transparency Data in a blockchain is stored in the form of a ledger which contains an ordered history of all the transactions This facilitates oversight and auditing 2 Blockchains ensure data integrity by using strong cryptographic primitives This guarantees that transactions accepted by the blockchain are authenticated by its issuer are immutable and cannot be repudiated by the issuer This ensures accountability 3 Blockchains are decentralized democratic and resilient They use consensus based replication to decentralize the ledger among many independent participants Thus it can operate completely decentralized and does not require trust in a single authority Additions to the chain are performed by consensus in which all participants have a democratic voice in maintaining the integrity of the blockchain Due to the usage of replication and consensus blockchains are also highly resilient to malicious attacks even when a significant portion of the participants are malicious It further increases the opportunity for fairness and equity through democratization These fundamental concepts and the technologies behind them a generic ledger based data model cryptographically ensured data integrity and consensus based replication prove to be a powerful and inspiring combination a catalyst to promote computational trust In this book we present an in depth study of blockchain unraveling its revolutionary promise to instill computational trust in society all carefully tailored to a broad audience including students researchers and practitioners We offer a comprehensive overview of theoretical limitations and practical usability of consensus protocols while examining the diverse landscape of how blockchains are manifested in their permissioned and permissionless forms Answering Queries Using Views, Second Edition Foto Afrati, Rada

Chirkova, 2022-05-31 The topic of using views to answer queries has been popular for a few decades now as it cuts across domains such as query optimization information integration data warehousing website design and recently database as a service and data placement in cloud systems This book assembles foundational work on answering queries using views in a self contained manner with an effort to choose material that constitutes the backbone of the research It presents efficient

algorithms and covers the following problems query containment rewriting queries using views in various logical languages equivalent rewritings and maximally contained rewritings and computing certain answers in the data integration and data exchange settings Query languages that are considered are fragments of SQL in particular select project join queries also called conjunctive queries with or without arithmetic comparisons or negation and aggregate SQL queries This second edition includes two new chapters that refer to tree like data and respective query languages Chapter 8 presents the data model for XML documents and the XPath query language and Chapter 9 provides a theoretical presentation of tree like data model and query language where the tuples of a relation share a tree structured schema for that relation and the query language is a dialect of SQL with evaluation techniques appropriately modified to fit the richer schema

Semantics Empowered Web 3.0 Amit Sheth, Krishnaprasad Thirunarayan, 2022-05-31 After the traditional document centric Web 1.0 and user generated content focused Web 2.0 Web 3.0 has become a repository of an ever growing variety of Web resources that include data and services associated with enterprises social networks sensors cloud as well as mobile and other devices that constitute the Internet of Things These pose unprecedented challenges in terms of heterogeneity variety scale volume and continuous changes velocity as well as present corresponding opportunities if they can be exploited Just as semantics has played a critical role in dealing with data heterogeneity in the past to provide interoperability and integration it is playing an even more critical role in dealing with the challenges and helping users and applications exploit all forms of Web 3.0 data This book presents a unified approach to harness and exploit all forms of contemporary Web resources using the core principles of ability to associate meaning with data through conceptual or domain models and semantic descriptions including annotations and through advanced semantic techniques for search integration and analysis It discusses the use of Semantic Web standards and techniques when appropriate but also advocates the use of lighter weight easier to use and more scalable options when they are more suitable The authors extensive experience spanning research and prototypes to development of operational applications and commercial technologies and products guide the treatment of the material

Table of Contents Role of Semantics and Metadata Types and Models of Semantics Annotation Adding Semantics to Data Semantics for Enterprise Data Semantics for Services Semantics for Sensor Data Semantics for Social Data Semantics for Cloud Computing Semantics for Advanced Applications

Datalog and Logic Databases Sergio Greco, Cristian Molinaro, 2022-05-31 The use of logic in databases started in the late 1960s In the early 1970s Codd formalized databases in terms of the relational calculus and the relational algebra A major influence on the use of logic in databases was the development of the field of logic programming Logic provides a convenient formalism for studying classical database problems and has the important property of being declarative that is it allows one to express what she wants rather than how to get it For a long time relational calculus and algebra were considered the relational database languages However there are simple operations such as computing the transitive closure of a graph which cannot be expressed with these languages

Datalog is a declarative query language for relational databases based on the logic programming paradigm. One of the peculiarities that distinguishes Datalog from query languages like relational algebra and calculus is recursion, which gives Datalog the capability to express queries like computing a graph transitive closure. Recent years have witnessed a revival of interest in Datalog in a variety of emerging application domains such as data integration, information extraction, networking, program analysis, security, cloud computing, ontology reasoning, and many others. The aim of this book is to present the basics of Datalog, some of its extensions, and recent applications to different domains.

Fundamentals of Physical Design and Query Compilation David Toman, Grant Weddell, 2022-06-01

Query compilation is the problem of translating user requests formulated over purely conceptual and domain-specific ways of understanding data, commonly called logical designs, to efficient executable programs called query plans. Such plans access various concrete data sources through their low-level, often iterator-based interfaces. An appreciation of the concrete data sources, their interfaces, and how such capabilities relate to logical design is commonly called a physical design. This book is an introduction to the fundamental methods underlying database technology that solves the problem of query compilation. The methods are presented in terms of first-order logic, which serves as the vehicle for specifying physical design, expressing user requests and query plans, and understanding how query plans implement user requests.

Table of Contents: Introduction, Logical Design and User Queries, Basic Physical Design and Query Plans, On Practical Physical Design, Query Compilation and Plan Synthesis, Updating Data.

Whispering the Strategies of Language: An Psychological Quest through **Access Control In Data Management Systems Elena Ferrari**

In a digitally-driven earth where screens reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and psychological nuances hidden within words usually go unheard. Yet, situated within the pages of **Access Control In Data Management Systems Elena Ferrari** a captivating literary prize pulsating with fresh emotions, lies an extraordinary journey waiting to be undertaken. Penned by a talented wordsmith, that enchanting opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound influence resonating within the very cloth of each and every word. Within the emotional depths with this poignant evaluation, we shall embark upon a genuine exploration of the book is key themes, dissect its charming publishing type, and yield to the powerful resonance it evokes serious within the recesses of readers hearts.

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