

Elena Ferrari

# Access Control in Data Management Systems

# Access Control In Data Management Systems Elena Ferrari

**Amit Sheth, Krishnaprasad  
Thirunarayan**



## **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

*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

**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 [Handbook of Database Security](#) Michael Gertz,Sushil Jajodia,2007-12-03 Handbook of Database Security Applications and Trends provides an up to date overview of data security models techniques and architectures in a variety of data management applications and settings In addition to providing an overview of data security in different application settings this book includes an outline for future research directions within the field The book is designed for industry practitioners and researchers and is also suitable for advanced level students in computer science **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 *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

### **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     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      **Methods for Mining and Summarizing Text Conversations** Giuseppe Carenini,Raymond Ng,Gabriel Murray,2022-06-01 Due to the Internet Revolution human conversational data in written forms are accumulating at a phenomenal rate At the same time improvements in speech technology enable many spoken conversations to be transcribed Individuals and organizations engage in email exchanges face to face meetings blogging texting and other social media activities The advances in natural language processing provide ample opportunities for these informal documents to be analyzed and mined thus creating numerous new and valuable applications This book presents a set of computational methods to extract information from conversational data and to provide natural language summaries of the data The book begins with an overview of basic concepts such as the differences between extractive and abstractive summaries and metrics for evaluating the effectiveness of summarization and various extraction tasks It also describes some of the benchmark corpora used in the literature The book introduces extraction and mining methods for performing subjectivity and sentiment detection topic segmentation and modeling and the extraction of conversational structure It also describes frameworks for conducting dialogue act recognition decision and action item detection and extraction of thread structure There is a specific focus on performing all these tasks on conversational data such as meeting transcripts which exemplify synchronous conversations and emails which exemplify asynchronous conversations Very recent approaches to deal with blogs discussion forums and microblogs e g Twitter are also discussed The second half of this book focuses on natural language summarization of conversational data It gives an overview of several extractive and abstractive summarizers developed for emails meetings blogs and forums It also describes attempts for building multi modal summarizers Last but not least the book concludes with thoughts on topics for further development Table of Contents Introduction Background Corpora and Evaluation Methods Mining Text Conversations Summarizing Text Conversations Conclusions Final Thoughts      *Querying Graphs* Angela Bonifati,George Fletcher,Hannes Voigt,Nikolay Yakovets,2022-06-01 Graph data modeling and querying arises in many practical application domains such as social and biological networks where the primary focus is on concepts and their relationships and the rich patterns in these complex webs of interconnectivity In this book we present a concise unified view on the basic challenges which arise over the complete life cycle of formulating and processing queries on graph databases To that purpose we present all major concepts relevant to this life cycle formulated in terms of a common and unifying ground the property graph data model the pre

dominant data model adopted by modern graph database systems We aim especially to give a coherent and in depth perspective on current graph querying and an outlook for future developments Our presentation is self contained covering the relevant topics from graph data models graph query languages and graph query specification graph constraints and graph query processing We conclude by indicating major open research challenges towards the next generation of graph data management systems

**Query Processing over Incomplete Databases** Yunjun Gao,Xiaoye Miao,2022-06-01 Incomplete data is part of life and almost all areas of scientific studies Users tend to skip certain fields when they fill out online forms participants choose to ignore sensitive questions on surveys sensors fail resulting in the loss of certain readings publicly viewable satellite map services have missing data in many mobile applications and in privacy preserving applications the data is incomplete deliberately in order to preserve the sensitivity of some attribute values Query processing is a fundamental problem in computer science and is useful in a variety of applications In this book we mostly focus on the query processing over incomplete databases which involves finding a set of qualified objects from a specified incomplete dataset in order to support a wide spectrum of real life applications We first elaborate the three general kinds of methods of handling incomplete data including i discarding the data with missing values ii imputation for the missing values and iii just depending on the observed data values For the third method type we introduce the semantics of k nearest neighbor kNN search skyline query and top k dominating query on incomplete data respectively In terms of the three representative queries over incomplete data we investigate some advanced techniques to process incomplete data queries including indexing pruning as well as crowdsourcing techniques

Probabilistic Databases Dan Suciu,Dan Olteanu,Christopher Re,Christoph Koch,2022-05-31 Probabilistic databases are databases where the value of some attributes or the presence of some records are uncertain and known only with some probability Applications in many areas such as information extraction RFID and scientific data management data cleaning data integration and financial risk assessment produce large volumes of uncertain data which are best modeled and processed by a probabilistic database This book presents the state of the art in representation formalisms and query processing techniques for probabilistic data It starts by discussing the basic principles for representing large probabilistic databases by decomposing them into tuple independent tables block independent disjoint tables or U databases Then it discusses two classes of techniques for query evaluation on probabilistic databases In extensional query evaluation the entire probabilistic inference can be pushed into the database engine and therefore processed as effectively as the evaluation of standard SQL queries The relational queries that can be evaluated this way are called safe queries In intensional query evaluation the probabilistic inference is performed over a propositional formula called lineage expression every relational query can be evaluated this way but the data complexity dramatically depends on the query being evaluated and can be P hard The book also discusses some advanced topics in probabilistic data management such as top k query processing sequential probabilistic databases indexing and materialized views and Monte



Carlo databases Table of Contents Overview Data and Query Model The Query Evaluation Problem Extensional Query Evaluation Intensional Query Evaluation Advanced Techniques      **Community Search over Big Graphs** Xin Huang,Laks V.S. Lakshmanan,Jianliang Xu,2022-05-31 Communities serve as basic structural building blocks for understanding the organization of many real world networks including social biological collaboration and communication networks Recently community search over graphs has attracted significantly increasing attention from small simple and static graphs to big evolving attributed and location based graphs In this book we first review the basic concepts of networks communities and various kinds of dense subgraph models We then survey the state of the art in community search techniques on various kinds of networks across different application areas Specifically we discuss cohesive community search attributed community search social circle discovery and geo social group search We highlight the challenges posed by different community search problems We present their motivations principles methodologies algorithms and applications and provide a comprehensive comparison of the existing techniques This book finally concludes by listing publicly available real world datasets and useful tools for facilitating further research and by offering further readings and future directions of research in this important and growing area      *Business Processes* Tova Milo,Daniel Deutsch,2022-06-01 While classic data management focuses on the data itself research on Business Processes also considers the context in which this data is generated and manipulated namely the processes users and goals that this data serves This provides the analysts a better perspective of the organizational needs centered around the data As such this research is of fundamental importance Much of the success of database systems in the last decade is due to the beauty and elegance of the relational model and its declarative query languages combined with a rich spectrum of underlying evaluation and optimization techniques and efficient implementations Much like the case for traditional database research elegant modeling and rich underlying technology are likely to be highly beneficiary for the Business Process owners and their users both can benefit from easy formulation and analysis of the processes While there have been many important advances in this research in recent years there is still much to be desired specifically there have been many works that focus on the processes behavior flow and many that focus on its data but only very few works have dealt with both the state of the art in a database approach to Business Process modeling and analysis the progress towards a holistic flow and data framework for these tasks and highlight the current gaps and research directions Table of Contents Introduction Modeling Querying Business Processes Other Issues Conclusion      P2P Techniques for Decentralized Applications Esther Pacitti,Reza Akbaranian,Manal El-Dick,2022-06-01 As an alternative to traditional client server systems Peer to Peer P2P systems provide major advantages in terms of scalability autonomy and dynamic behavior of peers and decentralization of control Thus they are well suited for large scale data sharing in distributed environments Most of the existing P2P approaches for data sharing rely on either structured networks e g DHTs for efficient indexing or unstructured networks for ease of deployment or some combination However these approaches have some limitations such as lack of

freedom for data placement in DHTs and high latency and high network traffic in unstructured networks To address these limitations gossip protocols which are easy to deploy and scale well can be exploited In this book we will give an overview of these different P2P techniques and architectures discuss their trade offs and illustrate their use for decentralizing several large scale data sharing applications Table of Contents P2P Overlays Query Routing and Gossiping Content Distribution in P2P Systems Recommendation Systems Top k Query Processing in P2P Systems **Deep Web Query Interface**

**Understanding and Integration** Eduard C. Dragut, Weiyi Meng, Clement Yu, 2022-05-31 There are millions of searchable data sources on the Web and to a large extent their contents can only be reached through their own query interfaces There is an enormous interest in making the data in these sources easily accessible There are primarily two general approaches to achieve this objective The first is to surface the contents of these sources from the deep Web and add the contents to the index of regular search engines The second is to integrate the searching capabilities of these sources and support integrated access to them In this book we introduce the state of the art techniques for extracting understanding and integrating the query interfaces of deep Web data sources These techniques are critical for producing an integrated query interface for each domain The interface serves as the mediator for searching all data sources in the concerned domain While query interface integration is only relevant for the deep Web integration approach the extraction and understanding of query interfaces are critical for both deep Web exploration approaches This book aims to provide in depth and comprehensive coverage of the key technologies needed to create high quality integrated query interfaces automatically The following technical issues are discussed in detail in this book query interface modeling query interface extraction query interface clustering query interface matching query interface attribute integration and query interface integration Table of Contents Introduction Query Interface Representation and Extraction Query Interface Clustering and Categorization Query Interface Matching Query Interface Attribute Integration Query Interface Integration Summary and Future Research **Probabilistic Ranking**

**Techniques in Relational Databases** Ihab Ilyas, Mohamed Soliman, 2022-05-31 Ranking queries are widely used in data exploration data analysis and decision making scenarios While most of the currently proposed ranking techniques focus on deterministic data several emerging applications involve data that are imprecise or uncertain Ranking uncertain data raises new challenges in query semantics and processing making conventional methods inapplicable Furthermore the interplay between ranking and uncertainty models introduces new dimensions for ordering query results that do not exist in the traditional settings This lecture describes new formulations and processing techniques for ranking queries on uncertain data The formulations are based on marriage of traditional ranking semantics with possible worlds semantics under widely adopted uncertainty models In particular we focus on discussing the impact of tuple level and attribute level uncertainty on the semantics and processing techniques of ranking queries Under the tuple level uncertainty model we describe new processing techniques leveraging the capabilities of relational database systems to recognize and handle data uncertainty in

score based ranking Under the attribute level uncertainty model we describe new probabilistic ranking models and a set of query evaluation algorithms including sampling based techniques We also discuss supporting rank join queries on uncertain data and we show how to extend current rank join methods to handle uncertainty in scoring attributes Table of Contents Introduction Uncertainty Models Query Semantics Methodologies Uncertain Rank Join Conclusion      **On Uncertain Graphs** Arijit Khan,Yuan Ye,Lei Chen,2022-05-31 Large scale highly interconnected networks which are often modeled as graphs pervade both our society and the natural world around us Uncertainty on the other hand is inherent in the underlying data due to a variety of reasons such as noisy measurements lack of precise information needs inference and prediction models or explicit manipulation e g for privacy purposes Therefore uncertain or probabilistic graphs are increasingly used to represent noisy linked data in many emerging application scenarios and they have recently become a hot topic in the database and data mining communities Many classical algorithms such as reachability and shortest path queries become P complete and thus more expensive over uncertain graphs Moreover various complex queries and analytics are also emerging over uncertain networks such as pattern matching information diffusion and influence maximization queries In this book we discuss the sources of uncertain graphs and their applications uncertainty modeling as well as the complexities and algorithmic advances on uncertain graphs processing in the context of both classical and emerging graph queries and analytics We emphasize the current challenges and highlight some future research directions

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Access Control In Data Management Systems Elena Ferrari**

In a global inundated with displays and the cacophony of fast communication, the profound power and psychological resonance of verbal art usually diminish into obscurity, eclipsed by the regular assault of sound and distractions. However, located within the lyrical pages of **Access Control In Data Management Systems Elena Ferrari**, a captivating work of fictional splendor that pulses with natural feelings, lies an memorable trip waiting to be embarked upon. Composed by a virtuoso wordsmith, this exciting opus manuals viewers on a psychological odyssey, gently exposing the latent potential and profound influence embedded within the intricate internet of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is key subjects, dissect their charming writing style, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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