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Relational and XML Data Exchange

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Wenfei Fan, Floris Geerts



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Foundations of Query Answering in Relational Data Exchange André Hernich, 2010 Relational data exchange is the problem of translating relational data according to a given specification It is one of the many tasks that arise in information integration A fundamental issue is how to answer queries that are posed against the result of the data exchange so that the answers are semantically consistent with the source data For monotonic queries the certain answers semantics by Fagin Kolaitis Miller and Popa 2003 yields good answers For many non monotonic queries however this semantics was shown to yield counter intuitive answers This dissertation deals with the problem of computing the certain answers to monotonic queries on the one hand On the other hand it presents and compares semantics for answering non monotonic queries and investigates how hard it is to evaluate non monotonic queries under these semantics **Foundations of Data Exchange**

Marcelo Arenas, Pablo Barceló, Leonid Libkin, Filip Murlak, 2014-03-06 Provides a summary of the key developments of a decade of research into the area of data exchange **Perspectives on Business Intelligence** Raymond T. Ng, Patricia C. Arocena, Denilson Barbosa, Giuseppe Carenini, Luiz Gomes, Stephan Jou, Anthony Leung, Evangelos Milios, Renée J. Miller, John Mylopoulos, Rachel A Pottinger, Frank Tompa, Eric Yu, 2022-05-31 In the 1980s traditional Business Intelligence BI systems focused on the delivery of reports that describe the state of business activities in the past such as for questions like How did our sales perform during the last quarter A decade later there was a shift to more interactive content that presented how the business was performing at the present time answering questions like How are we doing right now Today the focus of BI users are looking into the future Given what I did before and how I am currently doing this quarter how will I do next quarter Furthermore fuelled by the demands of Big Data BI systems are going through a time of incredible change Predictive analytics high volume data unstructured data social data mobile consumable analytics and data visualization are all examples of demands and capabilities that have become critical within just the past few years and are growing at an unprecedented pace This book introduces research problems and solutions on various aspects central to next generation BI systems It begins with a chapter on an industry perspective on how BI has evolved and discusses how game changing trends have drastically reshaped the landscape of BI One of the game changers is the shift toward the consumerization of BI tools As a result for BI tools to be successfully used by business users rather than IT departments the tools need a business model rather than a data model One chapter of the book surveys four different types of business modeling However even with the existence of a business model for users to express queries the data that can meet the needs are still captured within a data model The next chapter on vivification addresses the problem of closing the gap which is often significant between the business and the data models Moreover Big Data forces BI systems to integrate and consolidate multiple and often wildly different data sources One chapter gives an overview of several integration architectures for dealing with the challenges that need to be overcome While the book so far focuses on the usual structured relational data the remaining chapters turn to unstructured data an

ever increasing and important component of Big Data One chapter on information extraction describes methods for dealing with the extraction of relations from free text and the web Finally BI users need tools to visualize and interpret new and complex types of information in a way that is compelling intuitive but accurate The last chapter gives an overview of information visualization for decision support and text **Web Page Recommendation Models** Sule

Gunduz-Oguducu,2022-06-01 One of the application areas of data mining is the World Wide Web WWW or Web which serves as a huge widely distributed global information service for every kind of information such as news advertisements consumer information financial management education government e commerce health services and many other information services The Web also contains a rich and dynamic collection of hyperlink information Web page access and usage information providing sources for data mining The amount of information on the Web is growing rapidly as well as the number of Web sites and Web pages per Web site Consequently it has become more difficult to find relevant and useful information for Web users Web usage mining is concerned with guiding the Web users to discover useful knowledge and supporting them for decision making In that context predicting the needs of a Web user as she visits Web sites has gained importance The requirement for predicting user needs in order to guide the user in a Web site and improve the usability of the Web site can be addressed by recommending pages to the user that are related to the interest of the user at that time This monograph gives an overview of the research in the area of discovering and modeling the users interest in order to recommend related Web pages The Web page recommender systems studied in this monograph are categorized according to the data mining algorithms they use for recommendation Table of Contents Introduction Web Page Recommender Systems Preprocessing for Web Page Recommender Models Pattern Extraction Evaluation Metrics Advanced Metasearch Engine Technology

Weiye Meng,Clement Yu,2022-05-31 Among the search tools currently on the Web search engines are the most well known thanks to the popularity of major search engines such as Google and Yahoo While extremely successful these major search engines do have serious limitations This book introduces large scale metasearch engine technology which has the potential to overcome the limitations of the major search engines Essentially a metasearch engine is a search system that supports unified access to multiple existing search engines by passing the queries it receives to its component search engines and aggregating the returned results into a single ranked list A large scale metasearch engine has thousands or more component search engines While metasearch engines were initially motivated by their ability to combine the search coverage of multiple search engines there are also other benefits such as the potential to obtain better and fresher results and to reach the Deep Web The following major components of large scale metasearch engines will be discussed in detail in this book search engine selection search engine incorporation and result merging Highly scalable and automated solutions for these components are emphasized The authors make a strong case for the viability of the large scale metasearch engine technology as a competitive technology for Web search Table of Contents Introduction Metasearch Engine Architecture Search Engine

Selection Search Engine Incorporation Result Merging Summary and Future Research *Managing Event Information*

Amarnath Gupta,Ramesh Jain,2022-05-31 With the proliferation of citizen reporting smart mobile devices and social media an increasing number of people are beginning to generate information about events they observe and participate in A significant fraction of this information contains multimedia data to share the experience with their audience A systematic information modeling and management framework is necessary to capture this widely heterogeneous schemaless potentially humongous information produced by many different people This book is an attempt to examine the modeling storage querying and applications of such an event management system in a holistic manner It uses a semantic web style graph based view of events and shows how this event model together with its query facility can be used toward emerging applications like semi automated storytelling Table of Contents Introduction Event Data Models Implementing an Event Data Model Querying Events Storytelling with Events An Emerging Application Conclusion 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 **Instant Recovery with Write-Ahead Logging** Goetz Graefe,Wey Guy,Caetano

Sauer,2022-11-10 Traditional theory and practice of write ahead logging and of database recovery techniques revolve around three failure classes transaction failures resolved by rollback system failures typically software faults resolved by restart with log analysis redo and undo phases and media failures typically hardware faults resolved by restore operations that combine multiple types of backups and log replay The recent addition of single page failures and single page recovery has opened new

opportunities far beyond its original aim of immediate lossless repair of single page wear out in novel or traditional storage hardware In the contexts of system and media failures efficient single page recovery enables on demand incremental redo and undo as part of system restart or media restore operations This can give the illusion of practically instantaneous restart and restore instant restart permits processing new queries and updates seconds after system reboot and instant restore permits resuming queries and updates on empty replacement media as if those were already fully recovered In addition to these instant recovery techniques the discussion introduces much faster offline restore operations without slowdown in backup operations and with hardly any slowdown in log archiving operations The new restore techniques also render differential and incremental backups obsolete complete backup commands on the database server practically instantly and even permit taking full backups without imposing any load on the database server

Table of Contents Preface Acknowledgments Introduction Related Prior Work Single Page Recovery Applications of Single Page Recovery Instant Restart after a System Failure Single Pass Restore Applications of Single Pass Restore Instant Restore after a Media Failure Multiple Failures Conclusions References Author Biographies

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

Skylines and Other Dominance-Based Queries Apostolos N. Papadopoulos, Eleftherios Tiakas, Theodoros Tzouramanis, Nikolaos Georgiadis, Yannis Manolopoulos, 2022-06-01 This book is a gentle introduction to dominance based query processing techniques and their applications The book aims to present fundamental as well as some advanced issues in the area in a precise but easy to follow manner Dominance is an intuitive concept that can be used in many different ways in diverse application domains The concept of dominance is based on the values of the attributes of each object An object dominates another object if it is better than This goodness criterion may differ from one user to another However all decisions boil down to the minimization or

maximization of attribute values In this book we will explore algorithms and applications related to dominance based query processing The concept of dominance has a long history in finance and multi criteria optimization However the introduction of the concept to the database community in 2001 inspired many researchers to contribute to the area Therefore many algorithmic techniques have been proposed for the efficient processing of dominance based queries such as skyline queries dominant queries and top dominating queries just to name a few 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 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

Spatial Data Management Nikos Mamoulis,2012 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

Big Data Integration Xin Luna Dong,Divesh Srivastava,2022-05-31 The big data era is upon us data are being generated analyzed and used at an unprecedented scale and data driven decision making is sweeping through all aspects of society Since the value of data explodes when it can be linked and fused with other data addressing the big data integration BDI challenge is critical to realizing the promise of big data BDI differs from traditional data integration along the dimensions of volume velocity variety and veracity First not only can data sources contain a huge volume of data but also the number of data sources is now in the millions Second because of the rate at which newly collected data are made available many of the data sources are very dynamic and the number of data sources is also rapidly exploding Third data sources are extremely heterogeneous in their structure and content exhibiting considerable variety even for substantially similar entities Fourth the data sources are of widely differing qualities with significant differences in the coverage accuracy and timeliness of data provided This book explores the progress that has been made by the data integration community on the topics of schema alignment record linkage and data fusion in addressing these novel challenges faced by big data integration Each of these topics is covered in a systematic way first starting with a quick tour of the topic in the context of traditional data integration followed by a detailed example driven exposition of recent innovative techniques that have been proposed to address the BDI challenges of volume velocity variety and veracity Finally it presents merging topics and opportunities that are specific to BDI identifying promising directions for

the data integration community **Peer-to-Peer Data Management** Karl Aberer, 2022-05-31 This lecture introduces systematically into the problem of managing large data collections in peer to peer systems Search over large datasets has always been a key problem in peer to peer systems and the peer to peer paradigm has incited novel directions in the field of data management This resulted in many novel peer to peer data management concepts and algorithms for supporting data management tasks in a wider sense including data integration document management and text retrieval The lecture covers four different types of peer to peer data management systems that are characterized by the type of data they manage and the search capabilities they support The first type are structured peer to peer data management systems which support structured query capabilities for standard data models The second type are peer to peer data integration systems for querying of heterogeneous databases without requiring a common global schema The third type are peer to peer document retrieval systems that enable document search based both on the textual content and the document structure Finally we introduce semantic overlay networks which support similarity search on information represented in hierarchically organized and multi dimensional semantic spaces Topics that go beyond data representation and search are summarized at the end of the lecture Table of Contents Introduction Structured Peer to Peer Databases Peer to peer Data Integration Peer to peer Retrieval Semantic Overlay Networks Conclusion *Foundations of Data Quality Management* Wenfei Fan, Floris

Geerts, 2022-05-31 Data quality is one of the most important problems in data management A database system typically aims to support the creation maintenance and use of large amount of data focusing on the quantity of data However real life data are often dirty inconsistent duplicated inaccurate incomplete or stale Dirty data in a database routinely generate misleading or biased analytical results and decisions and lead to loss of revenues credibility and customers With this comes the need for data quality management In contrast to traditional data management tasks data quality management enables the detection and correction of errors in the data syntactic or semantic in order to improve the quality of the data and hence add value to business processes While data quality has been a longstanding problem for decades the prevalent use of the Web has increased the risks on an unprecedented scale of creating and propagating dirty data This monograph gives an overview of fundamental issues underlying central aspects of data quality namely data consistency data deduplication data accuracy data currency and information completeness We promote a uniform logical framework for dealing with these issues based on data quality rules The text is organized into seven chapters focusing on relational data Chapter One introduces data quality issues A conditional dependency theory is developed in Chapter Two for capturing data inconsistencies It is followed by practical techniques in Chapter 2b for discovering conditional dependencies and for detecting inconsistencies and repairing data based on conditional dependencies Matching dependencies are introduced in Chapter Three as matching rules for data deduplication A theory of relative information completeness is studied in Chapter Four revising the classical Closed World Assumption and the Open World Assumption to characterize incomplete information in the real world A data currency model

is presented in Chapter Five to identify the current values of entities in a database and to answer queries with the current values in the absence of reliable timestamps Finally interactions between these data quality issues are explored in Chapter Six Important theoretical results and practical algorithms are covered but formal proofs are omitted The bibliographical notes contain pointers to papers in which the results were presented and proven as well as references to materials for further reading This text is intended for a seminar course at the graduate level It is also to serve as a useful resource for researchers and practitioners who are interested in the study of data quality The fundamental research on data quality draws on several areas including mathematical logic computational complexity and database theory It has raised as many questions as it has answered and is a rich source of questions and vitality

Table of Contents Data Quality An Overview Conditional Dependencies Cleaning Data with Conditional Dependencies Data Deduplication Information Completeness Data Currency Interactions between Data Quality Issues

Data Protection from Insider Threats Elisa Bertino, 2022-05-31 As data represent a key asset for today's organizations the problem of how to protect this data from theft and misuse is at the forefront of these organizations' minds Even though today several data security techniques are available to protect data and computing infrastructures many such techniques such as firewalls and network security tools are unable to protect data from attacks posed by those working on an organization's inside These insiders usually have authorized access to relevant information systems making it extremely challenging to block the misuse of information while still allowing them to do their jobs This book discusses several techniques that can provide effective protection against attacks posed by people working on the inside of an organization Chapter One introduces the notion of insider threat and reports some data about data breaches due to insider threats Chapter Two covers authentication and access control techniques and Chapter Three shows how these general security techniques can be extended and used in the context of protection from insider threats Chapter Four addresses anomaly detection techniques that are used to determine anomalies in data accesses by insiders These anomalies are often indicative of potential insider data attacks and therefore play an important role in protection from these attacks Security information and event management SIEM tools and fine grained auditing are discussed in Chapter Five These tools aim at collecting analyzing and correlating in real time any information and event that may be relevant for the security of an organization As such they can be a key element in finding a solution to such undesirable insider threats Chapter Six goes on to provide a survey of techniques for separation of duty SoD SoD is an important principle that when implemented in systems and tools can strengthen data protection from malicious insiders However to date very few approaches have been proposed for implementing SoD in systems In Chapter Seven a short survey of a commercial product is presented which provides different techniques for protection from malicious users with system privileges such as a DBA in database management systems Finally in Chapter Eight the book concludes with a few remarks and additional research directions

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Separation of Duty Case Study Oracle Database Vault Conclusion Cloud-Based RDF Data Management Zoi Kaoudi, Ioana Manolescu, Stamatis Zampetakis, 2022-05-31 Resource Description Framework or RDF in short is set to deliver many of the original semi structured data promises flexible structure optional schema and rich flexible Universal Resource Identifiers as a basis for information sharing Moreover RDF is uniquely positioned to benefit from the efforts of scientific communities studying databases knowledge representation and Web technologies As a consequence the RDF data model is used in a variety of applications today for integrating knowledge and information in open Web or government data via the Linked Open Data initiative in scientific domains such as bioinformatics and more recently in search engines and personal assistants of enterprises in the form of knowledge graphs Managing such large volumes of RDF data is challenging due to the sheer size heterogeneity and complexity brought by RDF reasoning To tackle the size challenge distributed architectures are required Cloud computing is an emerging paradigm massively adopted in many applications requiring distributed architectures for the scalability fault tolerance and elasticity features it provides At the same time interest in massively parallel processing has been renewed by the MapReduce model and many follow up works which aim at simplifying the deployment of massively parallel data management tasks in a cloud environment In this book we study the state of the art RDF data management in cloud environments and parallel distributed architectures that were not necessarily intended for the cloud but can easily be deployed therein After providing a comprehensive background on RDF and cloud technologies we explore four aspects that are vital in an RDF data management system data storage query processing query optimization and reasoning We conclude the book with a discussion on open problems and future directions Natural Language Data Management and Interfaces Yunyao Li, Davood Rafiei, 2022-06-01 The volume of natural language text data has been rapidly increasing over the past two decades due to factors such as the growth of the Web the low cost associated with publishing and the progress on the digitization of printed texts This growth combined with the proliferation of natural language systems for search and retrieving information provides tremendous opportunities for studying some of the areas where database systems and natural language processing systems overlap This book explores two interrelated and important areas of overlap 1 managing natural language data and 2 developing natural language interfaces to databases It presents relevant concepts and research questions state of the art methods related systems and research opportunities and challenges covering both areas Relevant topics discussed on natural language data management include data models data sources queries storage and indexing and transforming natural language text Under natural language interfaces it presents the anatomy of these interfaces to databases the challenges related to query understanding and query translation and relevant aspects of user interactions Each of the challenges is covered in a systematic way first starting with a quick overview of the topics followed by a comprehensive view of recent techniques that have been proposed to address the challenge along with illustrative examples It also reviews some notable systems in details in terms of how they address different challenges and their contributions

Finally it discusses open challenges and opportunities for natural language management and interfaces The goal of this book is to provide an introduction to the methods problems and solutions that are used in managing natural language data and building natural language interfaces to databases It serves as a starting point for readers who are interested in pursuing additional work on these exciting topics in both academic and industrial environments **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

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