

Dan Suciu · Dan Olteanu · Christopher Ré · Christoph Koch

Probabilistic Databases

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Yunyao Li, Davood Rafiei



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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

Probabilistic Databases Dan Suciu, Dan Olteanu, Christop Koch, Christoph Koch, 2011-07-07 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 Database Repairing and Consistent Query Answering Leopoldo Bertossi, 2022-05-31 Integrity constraints are semantic conditions that a database should satisfy in order to be an appropriate model of external reality In practice and for many reasons a database may not satisfy those integrity constraints and for that reason it is said to be inconsistent However and most likely a large portion of the database is still semantically correct in a sense that has to be made precise After having provided a formal characterization of consistent data in an inconsistent database the natural problem emerges of extracting that semantically correct data as query answers The consistent data in an inconsistent database is usually characterized as the data that persists across all the database instances that are consistent and minimally differ from the inconsistent instance Those are the so called repairs of the database In particular the consistent answers to a query posed to the inconsistent database are those answers that can be simultaneously obtained from all the database repairs As expected the notion of repair requires an adequate notion of distance that allows for the comparison of databases with respect to how much they differ from the inconsistent instance On this basis the minimality condition on repairs can be properly formulated In this monograph we present and discuss these fundamental concepts different repair semantics algorithms for computing consistent answers to queries and also complexity theoretic results related to the computation of repairs and doing consistent query answering Table of Contents Introduction The Notions of Repair and Consistent Answer Tractable CQA and Query Rewriting Logically Specifying Repairs Decision Problems in CQA Complexity and Algorithms Repairs and Data Cleaning 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 *Data-Intensive Workflow Management* Daniel C. M. de Oliveira, Ji

Liu, Esther Pacitti, 2022-06-01 Workflows may be defined as abstractions used to model the coherent flow of activities in the context of an in silico scientific experiment They are employed in many domains of science such as bioinformatics astronomy and engineering Such workflows usually present a considerable number of activities and activations i e tasks associated with activities and may need a long time for execution Due to the continuous need to store and process data efficiently making them data intensive workflows high performance computing environments allied to parallelization techniques are used to run these workflows At the beginning of the 2010s cloud technologies emerged as a promising environment to run scientific workflows By using clouds scientists have expanded beyond single parallel computers to hundreds or even thousands of virtual machines More recently Data Intensive Scalable Computing DISC frameworks e g Apache Spark and Hadoop and environments emerged and are being used to execute data intensive workflows DISC environments are composed of processors and disks in large commodity computing clusters connected using high speed communications switches and networks The main advantage of DISC frameworks is that they support and grant efficient in memory data management for large scale applications such as data intensive workflows However the execution of workflows in cloud and DISC environments raise many challenges such as scheduling workflow activities and activations managing produced data collecting provenance data etc Several existing approaches deal with the challenges mentioned earlier This way there is a real need for understanding how to manage these workflows and various big data platforms that have been developed and introduced As such this book can help researchers understand how linking workflow management with Data Intensive Scalable Computing can help in understanding and analyzing scientific big data In this book we aim to identify and distill the body of work on workflow management in clouds and DISC environments We start by discussing the basic principles of data intensive scientific workflows Next we present two workflows that are executed in a single site and multi site clouds taking advantage of provenance Afterward we go towards workflow management in DISC environments and we present in detail solutions that enable the optimized execution of the workflow using frameworks such as Apache Spark and its extensions

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

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

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. **On**

Transactional Concurrency Control Goetz Graefe, 2022-05-31 This book contains a number of chapters on transactional database concurrency control. This volume's entire sequence of chapters can be summarized as follows: A two-sentence summary of the volume's entire sequence of chapters is this: traditional locking techniques can be improved in multiple dimensions, notably in lock scopes, sizes, lock modes, increment/decrement, and more lock durations, late acquisition, early release, and lock acquisition sequence to avoid deadlocks. Even if some of these improvements can be transferred to optimistic concurrency control, notably a fine granularity of concurrency control with serializable transaction isolation including phantom protection, pessimistic concurrency control is categorically superior to optimistic concurrency control, i.e., independent of application workload, deployment, hardware, and software implementation. **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 for 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.

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Table of Contents Probabilistic Databases Dan Olteanu

1. Understanding the eBook Probabilistic Databases Dan Olteanu
 - The Rise of Digital Reading Probabilistic Databases Dan Olteanu
 - Advantages of eBooks Over Traditional Books
2. Identifying Probabilistic Databases Dan Olteanu
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Probabilistic Databases Dan Olteanu
 - User-Friendly Interface
4. Exploring eBook Recommendations from Probabilistic Databases Dan Olteanu
 - Personalized Recommendations
 - Probabilistic Databases Dan Olteanu User Reviews and Ratings
 - Probabilistic Databases Dan Olteanu and Bestseller Lists
5. Accessing Probabilistic Databases Dan Olteanu Free and Paid eBooks
 - Probabilistic Databases Dan Olteanu Public Domain eBooks
 - Probabilistic Databases Dan Olteanu eBook Subscription Services
 - Probabilistic Databases Dan Olteanu Budget-Friendly Options
6. Navigating Probabilistic Databases Dan Olteanu eBook Formats

- ePub, PDF, MOBI, and More
- Probabilistic Databases Dan Olteanu Compatibility with Devices
- Probabilistic Databases Dan Olteanu Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Probabilistic Databases Dan Olteanu
 - Highlighting and Note-Taking Probabilistic Databases Dan Olteanu
 - Interactive Elements Probabilistic Databases Dan Olteanu
- 8. Staying Engaged with Probabilistic Databases Dan Olteanu
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Probabilistic Databases Dan Olteanu
- 9. Balancing eBooks and Physical Books Probabilistic Databases Dan Olteanu
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Probabilistic Databases Dan Olteanu
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Probabilistic Databases Dan Olteanu
 - Setting Reading Goals Probabilistic Databases Dan Olteanu
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Probabilistic Databases Dan Olteanu
 - Fact-Checking eBook Content of Probabilistic Databases Dan Olteanu
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
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 - Interactive and Gamified eBooks

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