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Probabilistic Databases

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SYNTHESIS LECTURES ON DATA MANAGEMENT

M. Tamer Özsu, *Series Editor*

Probabilistic Databases Dan Olteanu

**Dan Suciu, Dan Olteanu, Christop
Koch, Christoph Koch**



Probabilistic Databases Dan Olteanu:

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 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 *Data Processing on FPGAs* Jens Teubner,Louis Woods,2022-05-31 Roughly a decade ago power consumption and heat dissipation concerns forced the semiconductor industry to radically change its course shifting from sequential to parallel computing Unfortunately improving performance of applications has now become much more difficult than in the good old days of frequency scaling This is also affecting databases and data processing applications in general and has led to the popularity of so called data appliances specialized data processing engines where software and hardware are sold together in a closed box Field programmable gate arrays FPGAs increasingly play an important role in such systems FPGAs are attractive because the performance gains of specialized hardware can be significant while power consumption is much less than that of commodity processors On the other hand FPGAs are way more flexible than hard wired circuits ASICs and can be integrated into complex systems in many different ways e g directly in the network for a high frequency trading application This book gives an introduction to FPGA technology targeted at a database audience In the first few chapters we explain in detail the inner workings of FPGAs Then we discuss techniques and design patterns that help mapping algorithms to FPGA hardware so that the inherent parallelism of these devices can be leveraged in an optimal way Finally the book will illustrate a number of concrete examples that exploit different advantages of FPGAs for data processing Table of Contents Preface Introduction A Primer in Hardware Design FPGAs FPGA Programming Models Data Stream Processing Accelerated DB Operators Secure Data Processing Conclusions Bibliography Authors Biographies Index **Data Profiling** Ziawasch Abedjan,Lukasz Golab,Felix Naumann,Thorsten Papenbrock,2022-06-01 Data profiling refers to the activity of collecting data about data i e metadata Most IT professionals and researchers who work with data have engaged in

data profiling at least informally to understand and explore an unfamiliar dataset or to determine whether a new dataset is appropriate for a particular task at hand Data profiling results are also important in a variety of other situations including query optimization data integration and data cleaning Simple metadata are statistics such as the number of rows and columns schema and datatype information the number of distinct values statistical value distributions and the number of null or empty values in each column More complex types of metadata are statements about multiple columns and their correlation such as candidate keys functional dependencies and other types of dependencies This book provides a classification of the various types of profilable metadata discusses popular data profiling tasks and surveys state of the art profiling algorithms While most of the book focuses on tasks and algorithms for relational data profiling we also briefly discuss systems and techniques for profiling non relational data such as graphs and text We conclude with a discussion of data profiling challenges and directions for future work in this area

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

Query Processing over Uncertain Databases Lei Chen, Xiang Lian, 2022-05-31 Due to measurement errors transmission lost or injected noise for privacy protection uncertainty exists in the data of many real applications However query processing techniques for deterministic data cannot be directly applied to uncertain data because they do not have mechanisms to handle data uncertainty Therefore efficient and effective manipulation of uncertain data is a practical yet challenging research topic In this book we start from the data models for imprecise and uncertain data move on to defining different semantics for queries on uncertain data and finally discuss the advanced query processing techniques for various probabilistic queries in uncertain databases The book serves as a comprehensive guideline for query processing over uncertain databases Table of Contents Introduction Uncertain Data Models Spatial Query Semantics over Uncertain Data Models Spatial Query Processing over Uncertain Databases Conclusion

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

Similarity Joins in Relational Database Systems Nikolaus Augsten, Michael Bohlen, 2022-05-31 State of the art database systems manage and process a variety of complex objects including strings and trees For such objects equality comparisons are often not meaningful and must be replaced by similarity comparisons This book describes the concepts and techniques to incorporate similarity into database systems We start out by discussing the properties of strings and trees and identify the edit distance as the de facto standard for comparing complex objects Since the edit distance is computationally expensive token based distances have been introduced to speed up edit distance computations The basic idea is to decompose complex objects into sets of tokens that can be compared efficiently Token based distances are used to compute an approximation of the edit distance and prune expensive edit distance calculations A key observation when computing similarity joins is that many of the object pairs for which the similarity is computed are very different from each other Filters exploit this property to improve the performance of similarity joins A filter preprocesses the input data sets and produces a set of candidate pairs The distance function is evaluated on the candidate pairs only We describe the essential query processing techniques for filters based on lower and upper bounds For token equality joins we describe prefix size positional and partitioning filters which can be used to avoid the computation of small intersections that are not needed since the similarity would be too low

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

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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

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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