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Fundamentals of Physical Design and Query Compilation

David Toman
Grant Weddell

SYNTHESIS LECTURES ON DATA MANAGEMENT

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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

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

Query Answer Authentication HweeHwa Pang,Kian-Lee Tan,2022-05-31 In data publishing the owner delegates the role of satisfying user queries to a third party publisher As the servers of the publisher may be untrusted or susceptible to attacks we cannot assume that they would always process queries correctly hence there is a need for users to authenticate their query answers This book introduces various notions that the research community has studied for defining the correctness of a query answer In particular it is important to guarantee the completeness authenticity and minimality of the answer as well as its freshness We present authentication mechanisms for a wide variety of queries in the context of relational and spatial databases text retrieval and data streams We also explain the cryptographic protocols from which the authentication mechanisms derive their security properties Table of Contents Introduction Cryptography Foundation Relational Queries Spatial Queries Text Search Queries Data Streams 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

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

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 [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 **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 *Data Exploration Using Example-Based Methods* Matteo Lissandrini,Davide Mottin,Themis Palpanas,Yannis Velegrakis,2022-06-01 Data usually comes in a plethora of formats and dimensions rendering the exploration and information extraction processes challenging Thus being able to perform exploratory analyses in the data with the intent of having an immediate glimpse on some of the data properties is becoming crucial Exploratory analyses should be simple enough to avoid complicate declarative languages such as SQL and mechanisms and at the same time retain the flexibility and expressiveness of such languages Recently we have witnessed a rediscovery of the so called example based methods in which the user or the analyst circumvents query languages by using examples as input An example is a representative of the intended results or in other words an item from the result set Example based methods exploit inherent characteristics of the data to infer the results that the user has in mind but may not be able to easily express They can be useful in cases where a user is looking for information in an unfamiliar dataset when the task is particularly challenging like finding duplicate items or simply when they are exploring the data In this book we present an excursus over the main methods for exploratory analysis with a particular focus on example based methods We show how that different data types require different techniques and present algorithms that are specifically designed for relational textual and graph data The book presents also the challenges and the new frontiers of machine learning in online settings which recently attracted the attention of the database community The lecture concludes with a vision for further research and applications in this area

Fundamentals Of Physical Design And Query Compilation Grant Weddell: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year.

Fundamentals Of Physical Design And Query Compilation Grant Weddell : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Fundamentals Of Physical Design And Query Compilation Grant Weddell : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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