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User-Centered Data Management

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**Bettina Kemme, Ricardo Jimenez-
Peris, Marta Patino-Martinez**



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User-Centered Data Management Tiziana Catarci, Alan Dix, Stephen Kimani, Giuseppe Santucci, 2022-05-31 This lecture covers several core issues in user centered data management including how to design usable interfaces that suitably support database tasks and relevant approaches to visual querying information visualization and visual data mining Novel interaction paradigms e g mobile and interfaces that go beyond the visual dimension are also discussed Table of Contents Why User Centered The Early Days Visual Query Systems Beyond Querying More Advanced Applications Non Visual Interfaces Conclusions

Database Replication Bettina Kemme, Ricardo Jimenez-Peris, Marta Patino-Martinez, 2022-05-31 Database replication is widely used for fault tolerance scalability and performance The failure of one database replica does not stop the system from working as available replicas can take over the tasks of the failed replica Scalability can be achieved by distributing the load across all replicas and adding new replicas should the load increase Finally database replication can provide fast local access even if clients are geographically distributed clients if data copies are located close to clients Despite its advantages replication is not a straightforward technique to apply and there are many hurdles to overcome At the forefront is replica control assuring that data copies remain consistent when updates occur There exist many alternatives in regard to where updates can occur and when changes are propagated to data copies how changes are applied where the replication tool is located etc A particular challenge is to combine replica control with transaction management as it requires several operations to be treated as a single logical unit and it provides atomicity consistency isolation and durability across the replicated system The book provides a categorization of replica control mechanisms presents several replica and concurrency control mechanisms in detail and discusses many of the issues that arise when such solutions need to be implemented within or on top of relational database systems Furthermore the book presents the tasks that are needed to build a fault tolerant replication solution provides an overview of load balancing strategies that allow load to be equally distributed across all replicas and introduces the concept of self provisioning that allows the replicated system to dynamically decide on the number of replicas that are needed to handle the current load As performance evaluation is a crucial aspect when developing a replication tool the book presents an analytical model of the scalability potential of various replication solution For readers that are only interested in getting a good overview of the challenges of database replication and the general mechanisms of how to implement replication solutions we recommend to read Chapters 1 to 4 For readers that want to get a more complete picture and a discussion of advanced issues we further recommend the Chapters 5 8 9 and 10 Finally Chapters 6 and 7 are of interest for those who want get familiar with thorough algorithm design and correctness reasoning Table of Contents Overview 1 Copy Equivalence and Consistency Basic Protocols Replication Architecture The Scalability of Replication Eager Replication and 1 Copy Serializability 1 Copy Snapshot Isolation Lazy Replication Self Configuration and Elasticity Other Aspects of Replication

Relational and XML Data Exchange Marcelo Arenas, Pablo Barcelo, Leonid

Libkin,Filip Murlak,2022-05-31 Data exchange is the problem of finding an instance of a target schema given an instance of a source schema and a specification of the relationship between the source and the target Such a target instance should correctly represent information from the source instance under the constraints imposed by the target schema and it should allow one to evaluate queries on the target instance in a way that is semantically consistent with the source data Data exchange is an old problem that re emerged as an active research topic recently due to the increased need for exchange of data in various formats often in e business applications In this lecture we give an overview of the basic concepts of data exchange in both relational and XML contexts We give examples of data exchange problems and we introduce the main tasks that need to addressed We then discuss relational data exchange concentrating on issues such as relational schema mappings materializing target instances including canonical solutions and cores query answering and query rewriting After that we discuss metadata management i e handling schema mappings themselves We pay particular attention to operations on schema mappings such as composition and inverse Finally we describe both data exchange and metadata management in the context of XML We use mappings based on transforming tree patterns and we show that they lead to a host of new problems that did not arise in the relational case but they need to be addressed for XML These include consistency issues for mappings and schemas as well as imposing tighter restrictions on mappings and queries to achieve tractable query answering in data exchange Table of Contents Overview Relational Mappings and Data Exchange Metadata Management XML Mappings and Data Exchange

Multidimensional Databases and Data Warehousing Christian Jensen,Torben Bach Pedersen,Christian Thomsen,2022-05-31 The present book s subject is multidimensional data models and data modeling concepts as they are applied in real data warehouses The book aims to present the most important concepts within this subject in a precise and understandable manner The book s coverage of fundamental concepts includes data cubes and their elements such as dimensions facts and measures and their representation in a relational setting it includes architecture related concepts and it includes the querying of multidimensional databases The book also covers advanced multidimensional concepts that are considered to be particularly important This coverage includes advanced dimension related concepts such as slowly changing dimensions degenerate and junk dimensions outriggers parent child hierarchies and unbalanced non covering and non strict hierarchies The book offers a principled overview of key implementation techniques that are particularly important to multidimensional databases including materialized views bitmap indices join indices and star join processing The book ends with a chapter that presents the literature on which the book is based and offers further readings for those readers who wish to engage in more in depth study of specific aspects of the book s subject Table of Contents Introduction Fundamental Concepts Advanced Concepts Implementation Issues Further Readings

Web Page Recommendation Models Sule Gündüz-Ögüdücü,2010-11-30 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 to Web Page Recommender Systems Preprocessing for Web Page Recommender Models Pattern Extraction Evaluation Metrics

Proceedings of the International ACM SIGGROUP Conference on Supporting Group Work Stephen Hayne,1999 CSCW,1998 **Roster of Organizations in the Field of Automatic Computer Machinery** ,1961 **GROUP ...** ,1999

Computers and Automation ,1962 June issues 1955 contain Computer directory 1955 **Encyclopedia of Library and Information Science** Allen Kent,Harold Lancour,William Z. Nasri,Jay Elwood Daily,1968 Vol 73 index to v 48 72 Third Working Conference on Reverse Engineering Linda Wills,Ira Baxter,Elliot J. Chikofsky,1996 Annotation Comprises the proceedings of the Third Working Conference on Reverse Engineering held in Monterey in November 1996 The 30 contributions contained in this volume cover a range of topics including experiments with large systems experiments for evaluation user interface migration reverse engineering binary and assembler code object model transformation reengineering infrastructure wrapping data reverse engineering visualizing recovered architectures recovering objects recognition and domain oriented recovery Lacks a subject index Annotation copyrighted by Book News Inc Portland OR

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