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Fundamentals of Database Systems **Database Systems** Fundamental of Database Management System *Database Systems* ULLMAN:PRINCIPLES,VOL.I ULLMAN:PRINCIPLES OF DATABAS KNOWLEDGE-BASE SYSTEMS/ *An Introduction to Database Systems* **Grundlagen von Datenbanksystemen** **Database Systems** **Database Systems: Design, Implementation, and Management** Database Systems **Distributed Database Systems** *Active Database Systems* A First Course in Database Systems Database Systems Concepts with Oracle CD Database Systems for Advanced Applications **Datenbanksysteme** **Database Management Systems** Advances in Object-Oriented Database Systems **Principles of Database Query Processing for Advanced Applications** **Advanced Database Systems** **Recovery in Parallel Database Systems** **Datenintensive Anwendungen designen** The Creation and Management of Database Systems **Database Management System (DBMS): A Practical Approach, 5th Edition** **Modeling Spatial, Temporal and Spatio-Temporal Data in Object-Relational Database Systems** A First Course in Database Systems Introduction to Object-Oriented Databases **Principles of Distributed Database Systems** **Relational Database Systems** Database System Concepts *XML Data Management Client Data Caching Meta-level Control for Deductive Database Systems* **Database Systems for Advanced Applications '97** Distributed Database Management Systems **Spatial Data Types for Database Systems** *Real-Time Database Systems* Fundamentals of Relational Database Management Systems Datenbanken. Implementierungstechniken **Database Systems**

Relational Database Systems Jun 09 2020 After a long period of research, development, test and trial, relational database management systems are at last being marketed in force. The feedback from early installations of these systems is overwhelmingly positive. The most frequent comment by users is that productivity has been increased by a significant factor (from 5 to 20 times what it was using previous approaches). Another comment is that, in many cases, end users can now handle their own problems by direct use of the system instead of using application programmers as mediators between them and the system. As the reputation of relational systems for ease of use and enhanced productivity has grown, there has been a strong temptation for vendors of other approaches to exploit the label "relational" somewhat indiscriminately. In some cases the label is being misapplied to a whole data system; in others it is being misapplied to an interface. It is therefore worth developing criteria which database management systems (DBMSs) should have in order to be called "relational". The Relational Task Group (RTG) of the American National Standards Institute (ANSI) undertook such an effort by developing a characterization of RDBMSs and analyzing fourteen DBMSs per this characterization. The result of this work is presented in this book. The conclusions of the RTG are in agreement with my view that a DBMS should not be called "relational" unless it satisfies at least the following conditions: 1. All information in the database is represented as values in tables.

Datenintensive Anwendungen designen Jan 17 2021 Daten stehen heute im Mittelpunkt vieler Herausforderungen im Systemdesign. Dabei sind komplexe Fragen wie Skalierbarkeit, Konsistenz, Zuverlässigkeit, Effizienz und Wartbarkeit zu klären. Darüber hinaus verfügen wir über eine überwältigende Vielfalt an Tools, einschließlich relationaler Datenbanken, NoSQL-Datenspeicher,

Stream-und Batchprocessing und Message Broker. Aber was verbirgt sich hinter diesen Schlagworten? Und was ist die richtige Wahl für Ihre Anwendung? In diesem praktischen und umfassenden Leitfaden unterstützt Sie der Autor Martin Kleppmann bei der Navigation durch dieses schwierige Terrain, indem er die Vor-und Nachteile verschiedener Technologien zur Verarbeitung und Speicherung von Daten aufzeigt. Software verändert sich ständig, die Grundprinzipien bleiben aber gleich. Mit diesem Buch lernen Softwareentwickler und -architekten, wie sie die Konzepte in der Praxis umsetzen und wie sie Daten in modernen Anwendungen optimal nutzen können. Inspizieren Sie die Systeme, die Sie bereits verwenden, und erfahren Sie, wie Sie sie effektiver nutzen können Treffen Sie fundierte Entscheidungen, indem Sie die Stärken und Schwächen verschiedener Tools kennenlernen Steuern Sie die notwenigen Kompromisse in Bezug auf Konsistenz, Skalierbarkeit, Fehlertoleranz und Komplexität Machen Sie sich vertraut mit dem Stand der Forschung zu verteilten Systemen, auf denen moderne Datenbanken aufbauen Werfen Sie einen Blick hinter die Kulissen der wichtigsten Onlinedienste und lernen Sie von deren Architekturen

Database Management System (DBMS): A Practical Approach, 5th Edition Nov 14 2020 This comprehensive book, now in its Fifth Edition, continues to discuss the principles and concept of Database Management System (DBMS). It introduces the students to the different kinds of database management systems and explains in detail the implementation of DBMS. The book provides practical examples and case studies for better understanding of concepts and also incorporates the experiments to be performed in the DBMS lab. A competitive pedagogy includes Summary, MCQs, Conceptual Short Questions (with answers) and Exercise Questions.

Datenbanksysteme Jul 23 2021 Das Buch bietet eine umfassende und aktuelle Darstellung der Konzepte und Techniken zur Implementierung von Datenbanksystemen. Ausgangspunkt ist ein hierarchisches Architekturmodell: Die Schichten dieses Modells ermöglichen es, den Systemaufbau, die Einordnung der bereitzustellenden Funktionen und ihr Zusammenspiel detailliert zu beschreiben. Es werden alle Aspekte der Datenabbildung mit den erforderlichen Algorithmen und Datenstrukturen behandelt, also vor allem Externspeicherabbildung, Realisierung von Speicherungsstrukturen und Zugriffspfaden sowie die Ableitung logischer Sichten. Neben der Datenabbildung, in deren Aufgaben sich Speicher-, Zugriffs- und Datensystem teilen, steht als zweiter Schwerpunkt des Buches das Transaktionskonzept und seine Erweiterungen. Dabei werden insbesondere alle Funktionen zur Synchronisation des Mehrbenutzerbetriebs und zur Wiederherstellung der Datenbank im Fehlerfall (Logging und Recovery) dargestellt.

Database Systems Concepts with Oracle CD Sep 24 2021 The Fourth edition of Database System Concepts has been extensively revised from the 3rd edition. The new edition provides improved coverage of concepts, extensive coverage of new tools and techniques, and updated coverage of database system internals.This text is intended for a first course in databases at the junior or senior undergraduate, or first-year graduate level. Database System Concepts, 4th ed. offers a complete background in the basics of database design, languages, and system implementations.Concepts are presented using intuitive descriptions, and important theoretical results are covered, but formal proofs are omitted. The fundamental concepts and algorithms covered in Database System Concepts 4th ed. are based on those used in existing commercial or experimental database systems. The authors present these concepts and algorithms in a general setting that is not tied to one particular database system.

Modeling Spatial, Temporal and Spatio-Temporal Data in Object-Relational Database Systems Oct 14 2020

A First Course in Database Systems Oct 26 2021 /* 3530K-9, 0-13-035300-0, ULLMAN/WIDOM, A First Course in Database Systems, 2E */ Written by well-known computer scientists, this accessible and succinct introduction to database systems focuses on database design and use. Provides a more extensive treatment of query processing than other books on the market. The authors provide in-depth coverage of databases from the point of view of the database designer, user, and application programmer. It covers the latest database standards: SQL: 1999, SQL/PSM, SQL/CLI, JDBC, ODL, and XML, with broader coverage of SQL than most other books. Now includes coverage of the

technologies used to connect database programming with C or Java code-SWL/PSM, SQL/CLI, and JDBC. For database systems and database design and application professionals.

Database Systems for Advanced Applications '97 Jan 05 2020 This volume contains the proceedings of the Fifth International Conference on Database Systems for Advanced Applications (DASFAA '97). DASFAA '97 focused on advanced database technologies and their applications. The 55 papers in this volume cover a wide range of areas in the field of database systems and applications ? including the rapidly emerging areas of the Internet, multimedia, and document database systems ? and should be of great interest to all database system researchers and developers, and practitioners.

Client Data Caching Mar 07 2020 This book is concerned with the architectural alternatives for client-server database systems, presenting the arguments for using caching as the basis for constructing page server database systems, and providing an overview of other environments in which caching-related issues arise. A significant amount of the text is focused on the development and simulation-based performance analysis of algorithms for data caching and memory management, including a performance study of seven proposed algorithms. Caching-based techniques to further improve system performance and scalability, and client data caching as an organizing principle for distributed information systems. This book is for anyone interested in the performance and architecture of distributed information systems, and object-based database management systems particularly.

Database Systems: Design, Implementation, and Management Feb 27 2022 Practical and easy to understand, DATABASE SYSTEMS: DESIGN, IMPLEMENTATION, AND MANAGEMENT, Tenth Edition, gives students a solid foundation in database design and implementation. Filled with visual aids such as diagrams, illustrations, and tables, this market-leading text provides in-depth coverage of database design, demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment. Renowned for its clear, straightforward writing style, this text provides students with an outstanding balance of theory and practice. The tenth edition has been thoroughly updated to include hot topics such as green computing/sustainability for modern data centers, the role of redundant relationships, and examples of web-database connectivity and code security. In addition, new review questions, problem sets, and cases have been added throughout the book so that students have multiple opportunities to test their understanding and develop real and useful design skills. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Datenbanken. Implementierungstechniken Jul 31 2019 Architekturprinzipien und Datenstrukturen moderner Datenbanksysteme Algorithmen und optimierte Anfragen für Datenbankoperationen Transaktionsmodelle sowie Transaktionsverwaltung im Mehrbenutzerbetrieb Datenbankmanagementsysteme (DBMS) bilden häufig die Kernkomponente von Informationssystemen und ermöglichen die integrierte Speicherung von großen Datenbeständen, auf die mehrere Anwendungen gleichzeitig zugreifen können. Bei der Implementierung dieser Systeme müssen einige Anforderungen berücksichtigt werden: Effiziente Speicherung und schnelles Wiederauffinden der Daten Datenunabhängigkeit Zuverlässiger Mehrbenutzerbetrieb Wiederherstellung der Daten nach Systemausfällen Kompatibilität zu verschiedenen Rechnerarchitekturen Die Autoren behandeln die wichtigsten Konzepte und Techniken der Implementierung von DBMS, wobei der Schwerpunkt auf den Konzepten und Basistechnologien kommerzieller, meist relationaler Datenbanksysteme liegt: Architektur, Datenorganisation, Anfragebearbeitung, Synchronisation im Mehrbenutzerbetrieb und Recovery. Darüber hinaus gehen die Autoren auch auf aktuelle Entwicklungen bei Speichermedien, alternativen Speichermodellen, der Bearbeitung von Data-Warehouse-Anfragen, Anfrageoptimierern und Transaktionsmodellen ein. Angaben zu vertiefender Literatur sowie Übungen am Ende der Kapitel helfen beim Vertiefen des Gelernten sowie bei Selbststudium und Prüfungsvorbereitung. Zum Verständnis des Buches sind Grundkenntnisse der theoretischen Grundlagen von DBMS wie Relationenalgebra sowie Basiskenntnisse in SQL notwendig. Aus dem Inhalt: Externspeicher- und Pufferverwaltung Speicherhierarchie und -medien Seiten, Datensätze und ihre Adressierung Row Stores und Column

Stores Seitenersetzungsstrategien Dateiorganisation und Indexstrukturen B-Bäume Partitionierung Dynamisches Hashing Mehrdimensionale und geometrische Indexstrukturen Bitmap-Indexe Anfrageverarbeitung und -optimierung Anfrageoperatoren Logische und physische Optimierung Kostenmodelle und Statistiken in DBMS Transaktionsverwaltung und Recovery Serialisierbarkeit Sperrprotokolle und nichtsperrende Verfahren Commit-Protokolle Logging und Recovery-Strategien
Database System Concepts May 09 2020 This acclaimed revision of a classic database systems text offers a complete background in the basics of database design, languages, and system implementation. It provides the latest information combined with real-world examples to help readers master concepts. All concepts are presented in a technically complete yet easy-to-understand style with notations kept to a minimum. A running example of a bank enterprise illustrates concepts at work. To further optimize comprehension, figures and examples, rather than proofs, portray concepts and anticipate results.
Database Systems for Advanced Applications Aug 24 2021 This book constitutes the refereed proceedings of the 9th International Conference on Database Systems for Advanced Applications, DASFAA 2004, held in Jeju Island, Korea in March 2004. The 60 revised full papers and 18 revised short papers presented together with 2 invited articles were carefully reviewed and seleted from 272 submissions. The papers are organized in topical sections on access methods, query processing in XML, security and integrity, query processing in temporal and spatial databases, semi-structured databases, knowledge discovery in temporal and spatial databases, XML and multimedia and knowledge discovery on the Web, query processing and optimization, classification and clustering, Web search, mobile databases, parallel and distributed databases, and multimedia databases.
Fundamentals of Database Systems Nov 07 2022 For database systems courses in Computer Science This book introduces the fundamental concepts necessary for designing, using, and implementing database systems and database applications. Our presentation stresses the fundamentals of database modeling and design, the languages and models provided by the database management systems, and database system implementation techniques. The book is meant to be used as a textbook for a one- or two-semester course in database systems at the junior, senior, or graduate level, and as a reference book. The goal is to provide an in-depth and up-to-date presentation of the most important aspects of database systems and applications, and related technologies. It is assumed that readers are familiar with elementary programming and data-structuring concepts and that they have had some exposure to the basics of computer organization.
Distributed Database Management Systems Dec 04 2019 This book addresses issues related to managing data across a distributed database system. It is unique because it covers traditional database theory and current research, explaining the difficulties in providing a unified user interface and global data dictionary. The book gives implementers guidance on hiding discrepancies across systems and creating the illusion of a single repository for users. It also includes three sample frameworks—implemented using J2SE with JMS, J2EE, and Microsoft .Net—that readers can use to learn how to implement a distributed database management system. IT and development groups and computer sciences/software engineering graduates will find this guide invaluable.
ULLMAN:PRINCIPLES,VOL.I ULLMAN:PRINCIPLES OF DATABAS KNOWLEDGE-BASE SYSTEMS/ Jul 03 2022
Fundamentals of Relational Database Management Systems Aug 31 2019 This book provides comprehensive coverage of fundamentals of database management system. It contains a detailed description on Relational Database Management System Concepts. There are a variety of solved examples and review questions with solutions. This book is for those who require a better understanding of relational data modeling, its purpose, its nature, and the standards used in creating relational data model.
A First Course in Database Systems Sep 12 2020 For Database Systems and Database Design and Application courses offered at the junior, senior, and graduate levels in Computer Science departments. Written by well-known computer scientists, this accessible and succinct introduction to database systems focuses on database design and use. The authors provide in-depth coverage of

databases from the point of view of the database designer, user, and application programmer, leaving implementation for later courses. It is the first database systems text to cover such topics as UML, algorithms for manipulating dependencies in relations, extended relational algebra, PHP, 3-tier architectures, data cubes, XML, XPATH, XQuery, XSLT. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Database Systems Jun 29 2019 This text includes material on distributed databases, object-oriented databases, data mining, data warehouses, multimedia databases and the Internet and provides a strong foundation in good design practice.

Distributed Database Systems Dec 28 2021 Distributed Database Systems discusses the recent and emerging technologies in the field of distributed database technology. The material is up-to-date, highly readable, and illustrated with numerous practical examples. The mainstream areas of distributed database technology, such as distributed database design, distributed DBMS architectures, distributed transaction management, distributed concurrency control, deadlock handling in distributed systems, distributed recovery management, distributed query processing and optimization, data security and catalog management, have been covered in detail. The popular distributed database systems, SDD-1 and R*, have also been included.

Real-Time Database Systems Oct 02 2019 In recent years, tremendous research has been devoted to the design of database systems for real-time applications, called real-time database systems (RTDBS), where transactions are associated with deadlines on their completion times, and some of the data objects in the database are associated with temporal constraints on their validity. Examples of important applications of RTDBS include stock trading systems, navigation systems and computer integrated manufacturing. Different transaction scheduling algorithms and concurrency control protocols have been proposed to satisfy transaction timing data temporal constraints. Other design issues important to the performance of a RTDBS are buffer management, index accesses and I/O scheduling. Real-Time Database Systems: Architecture and Techniques summarizes important research results in this area, and serves as an excellent reference for practitioners, researchers and educators of real-time systems and database systems.

Introduction to Object-Oriented Databases Aug 12 2020 Introduction to Object-Oriented Databases provides the first unified and coherent presentation of the essential concepts and techniques of object-oriented databases. It consolidates the results of research and development in the semantics and implementation of a full spectrum of database facilities for object-oriented systems, including data model, query, authorization, schema evolution, storage structures, query optimization, transaction management, versions, composite objects, and integration of a programming language and a database system.The book draws on the author's Orion project at MCC, currently the most advanced object-oriented database system, and places this work in a larger context by using relational database systems and other object-oriented systems for comparison.Won Kim is Director of the Object-Oriented and Distributed Systems Laboratory at Microelectronics and Computer Technology Corporation (MCC) in Austin, Texas.Contents: Introduction. Data Model. Basic Interface. Relationships with Non-Object-Oriented Databases. Schema Modification. Model of Queries. Query Language. Authorization. Storage Structures. Query Processing. Transaction Management. Semantic Extensions. Integrating Object-Oriented Programming and Databases. Architecture. Survey of Object-Oriented Database Systems. Directions for Future Research and Development.

Principles of Distributed Database Systems Jul 11 2020 The fourth edition of this classic textbook provides major updates. This edition has completely new chapters on Big Data Platforms (distributed storage systems, MapReduce, Spark, data stream processing, graph analytics) and on NoSQL,

NewSQL and polystore systems. It also includes an updated web data management chapter that includes RDF and semantic web discussion, an integrated database integration chapter focusing both on schema integration and querying over these systems. The peer-to-peer computing chapter has been updated with a discussion of blockchains. The chapters that describe classical distributed and parallel database technology have all been updated. The new edition covers the breadth and depth of the field from a modern viewpoint. Graduate students, as well as senior undergraduate students studying computer science and other related fields will use this book as a primary textbook. Researchers working in computer science will also find this textbook useful. This textbook has a companion web site that includes background information on relational database fundamentals, query processing, transaction management, and computer networks for those who might need this background. The web site also includes all the figures and presentation slides as well as solutions to exercises (restricted to instructors).

Fundamental of Database Management System Sep 05 2022 Designed to provide an insight into the database concepts DESCRIPTION Book teaches the essentials of DBMS to anyone who wants to become an effective and independent DBMS Master. It covers all the DBMS fundamentals without forgetting few vital advanced topics such as from installation, configuration and monitoring, up to the backup and migration of database covering few database client tools. KEY FEATURES Book contains real-time executed commands along with screenshot Parallel execution and explanation of Oracle and MySQL Database commands A Single comprehensive guide for Students, Teachers and Professionals Practical oriented book WHAT WILL YOU LEARN Relational Database,Keys Normalization of database SQL, SQL Queries, SQL joins Aggregate Functions,Oracle and Mysql tools WHO THIS BOOK IS FOR Students of Polytechnic Diploma Classes- Computer Science/ Information Technology Graduate Students- Computer Science/ CSE / IT/ Computer Applications Master Class Students—Msc (CS/IT)/ MCA/ M.Phil, M.Tech, M.S. Industry Professionals- Preparing for Certifications Table of Contents ?1. Fundamentals of data and Database management system 2. Database Architecture and Models 3. Relational Database and normalization 4. Open source technology & SQL 5. Database queries 6. SQL operators 7. Introduction to database joins 8. Aggregate functions, subqueries and users 9. Backup & Recovery 10. Database installation 11. Oracle and MYSQL tools 12. Exercise

Active Database Systems Nov 26 2021 Active database systems enhance traditional database functionality with powerful rule-processing capabilities, providing a uniform and efficient mechanism for many database system applications. Among these applications are integrity constraints, views, authorization, statistics gathering, monitoring and alerting, knowledge-based systems, expert systems, and workflow management. This significant collection focuses on the most prominent research projects in active database systems. The project leaders for each prototype system provide detailed discussions of their projects and the relevance of their results to the future of active database systems. Features: A broad overview of current active database systems and how they can be extended and improved A comprehensive introduction to the core topics of the field, including its motivation and history Coverage of active database (trigger) capabilities in commercial products Discussion of forthcoming standards

Spatial Data Types for Database Systems Nov 02 2019 Database research in the last decade has increasingly focused on providing support for non-standard applications. One important domain is representation and processing of spatial information, needed, e.g., in geographical information systems. Spatial data types provide a fundamental abstraction for modeling the structure of geometric entities, their relationships, properties and operations. This monograph is an extensive survey of this field and introduces a new, general, sophisticated framework for the formal definition and robust implementation of spatial data types.

Database Systems Jan 29 2022 Database Systems is ideal for a one- or two-term course in database management or database design in an undergraduate or graduate level course. With its comprehensive coverage, this book can also be used as a reference for IT professionals. This best-selling text introduces the theory behind databases in a concise yet comprehensive manner, providing database

design methodology that can be used by both technical and non-technical readers. The methodology for relational Database Management Systems is presented in simple, step-by-step instructions in conjunction with a realistic worked example using three explicit phases—conceptual, logical, and physical database design. Teaching and Learning Experience This program presents a better teaching and learning experience–for you and your students. It provides: Database Design Methodology that can be Used by Both Technical and Non-technical Readers A Comprehensive Introduction to the Theory behind Databases A Clear Presentation that Supports Learning

Principles of Database Query Processing for Advanced Applications Apr 19 2021 A thorough presentation of query processing techniques in a broad range of database systems for advanced applications. Provides the most effective query processing techniques and ways to optimize the information retrieval process. Intended for database systems designers creating advanced applications.

Database Management Systems Jun 21 2021 The contents of this second edition have been appropriately enhanced to serve the growing needs of the students pursuing undergraduate engineering courses in Computer Science, Information Technology, as well as postgraduate programmes in Computer Applications (MCA), MSc (IT) and MSc (Computer Science). The book covers the fundamental and theoretical concepts in an elaborate manner using SQL of leading RDBMS—Oracle, MS SQL Server and Sybase. This book is recommended in Guwahati University, Assam. Realizing the importance of RDBMS in all types of architectures and applications, both traditional and modern topics are included for the benefit of IT-savvy readers. A strong understanding of the relational database design is provided in chapters on Entity-Relationship, Relational, Hierarchical and Network Data Models, Normalization, Relational Algebra and Relational Calculus. The architecture of the legacy relational database R system, the hierarchical database IMS of IBM and the network data model DBTG are also given due importance to bring completeness and to show thematic interrelationships among them. Several chapters have been devoted to the latest database features and technologies such as Data Partitioning, Data Mirroring, Replication, High Availability, Security and Auditing. The architecture of Oracle, SQL of Oracle known as PL/SQL, SQL of both Sybase and MS SQL Server known as T-SQL have been covered. KEY FEATURES : Gives wide coverage to topics of network, hierarchical and relational data models of both traditional and generic modern databases. Discusses the concepts and methods of Data Partitioning, Data Mirroring and Replication required to build the centralized architecture of very large databases. Provides several examples, listings, exercises and solutions to selected exercises to stimulate and accelerate the learning process of the readers. Covers the concept of database mirroring and log shipping to demonstrate how to build disaster recovery solution through the use of database technology. Contents: Preface 1. Introduction 2. The Entity-Relationship Model 3. Data Models 4. Storage Structure 5. Relational Data Structure 6. Architecture of System R and Oracle 7. Normalization 8. Structured Query Language 9. T-SQL—Triggers and Dynamic Execution 10. Procedure Language—SQL 11. Cursor Management and Advanced PL/SQL 12. Relational Algebra and Relational Calculus 13. Concurrency Control and Automatic Recovery 14. Distributed Database and Replication 15. High Availability and RAID Technology 16. Security Features Built in RDBMS 17. Queries Optimization 18. Architecture of a Hierarchical DBMS 19. The Architecture of Network based DBTG System 20. Comparison between Different Data Models 21. Performance Improvement and Partitioning 22. Database Mirroring and Log Shipping for Disaster Recovery Bibliography Answers to Selected Exercises Index

Database Systems Mar 31 2022 This book is a comprehensive, practical, and student-friendly textbook addressing fundamental concepts in database design and applications.

Advanced Database Systems Mar 19 2021 The theme of this book is the potential of new advanced database systems. The volume presents the proceedings of the 10th British National Conference on Databases, held in Aberdeen, Scotland, in July 1992. The volume contains two invited papers, one on the promise of distributed computing andthe challenges of legacy systems by M.L. Brodie, and the other on object-oriented requirements capture and analysis and the Orca project by D.J.L. Gradwell. The following four parts each contain three submitted papers selected from a total of 36 submissions.

The parts are entitled: - Object-oriented databases - Parallel implementationsand industrial systems - Non-relational data models - Logic programming and databases

XML Data Management Apr 07 2020 In this book, you will find discussions on the newest native XML databases, along with information on working with XML-enabled relational database systems. In addition, XML Data Management thoroughly examines benchmarks and analysis techniques for performance of XML databases. This book is best used by students that are knowledgeable in database technology and are familiar with XML.

Database Systems Aug 04 2022 Taking users step-by-step through database development and creation, this title provides coverage of database basics, with exercises and problems at the end of each chapter which should encourage hands-on learning.

The Creation and Management of Database Systems Dec 16 2020 This book on creation and management of database systems provides an in-depth analysis of several real-world examples of database applications. This textbook offers a clear and comprehensive overview of the fundamentals, principles, and, in particular, sophisticated instrumentation techniques used in database systems. It discusses the database as an essential component of a software system, as well as a valuable, mission critical corporate resource.The book examines different database concepts, principles, design, implementation, and management challenges. Each chapter is carefully divided into concise, reader-friendly chunks, with itemization of the key elements to remember. It solves database system challenges in a methodical and pragmatic manner. Diagrams and pictures can also be used to summarise key topics in order to improve learning. This book does an outstanding job of providing an overview of the many different aspects of database systems. The book is intended for all the readers from multidisciplinary backgrounds.

An Introduction to Database Systems Jun 02 2022 This text is intended for undergraduates on courses in database technology.

Grundlagen von Datenbanksystemen May 01 2022

Recovery in Parallel Database Systems Feb 15 2021 The relational DBMS technology is a success in the commercial market. This success has led to the use of DBMS technology in application environments requesting their traditional virtues but at the same time adding new requirements such as: Very high transaction rates, real-time transaction response, and continuous availability. New multi-processor hardware architectures lay the foundation making it possible to meet these requirements. This book presents and analysis in a systematic way the main recovery approaches for centralised DBMSs developed over the last two decades, in particular to how well they fulfil the requirements for availability and soft real-time response. The analysis relates specifically to approaches used in current commercial and research systems. The element in particular lacking in the current methods is the ability to on-line re-establish the faulttolerance level automatically and without blocking. A set of novel recovery methods for parallel DBM's based on multi-computer shared nothing hardware is presented. The recovery methods are intended to support: Continuously available transaction services, very high transaction loads, and soft real-time transaction response. Dieses Buch gibt einen guten, systematisch gegliederten Einblick in die maßgeblichen Methoden des Recovery ("Wiederherstellung"), eines der wichtigsten Themen im Bereich des Handlings großer Datenbanksysteme. Dabei geht es darum, wie die Verfügbarkeit korrekter Daten gewährleistet sowie Transaktionen und Änderungen von Daten hinsichtlich Echtzeit möglichst optimal bewerkstelligt werden können. Behandelt werden sowohl kommerzielle wie auch in der Forschung verwandte parallele Systeme.

Database Systems Oct 06 2022 For Database Systems and Database Design and Application courses offered at the junior, senior and graduate levels in Computer Science departments. Written by well-known computer scientists, this introduction to database systems offers a comprehensive approach, focusing on database design, database use, and implementation of database applications and database management systems. The first half of the book provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer.

Advances in Object-Oriented Database Systems May 21 2021 This volume collects papers presented at the 2nd International Workshop on Object-Oriented Database Systems (ooDBS-II) held at the Ebernburg near Bad Münster am Stein, FRG, in September 1988. It thus gives a comprehensive overview of the latest developments in this flourishing area of current database research. Object-oriented database systems have been approached with mainly two major intentions in mind, namely to better support new application areas like CAD/CAM, office automation, knowledge engineering, and to overcome the 'impedance mismatch' between data models and programming languages. The notion of object-orientation in database systems is thus a broader one than e.g. in the area of programming languages. Structural object-orientation provides for data model mechanisms that allow the direct representation and manipulation of highly-structured entities; behavioral object-orientation cares for facilities to associate arbitrary user-defined type-specific operations with data entities; finally, full object-orientation tries to combine the advantages of both categories. Though data model concepts are the decisive feature of object-oriented database systems, numerous other system aspects have to be reconsidered or allow better solutions, respectively, in this light. They include e.g. transactions, implementation techniques, optimization, formalization, the inclusion of rules, and the integration with other systems. A number of research prototypes and even some commercial systems are meanwhile available. Both, approaches to extend databases with object-oriented capabilities and approaches to extend object-oriented programming languages with database features have been and are being investigated.

Meta-level Control for Deductive Database Systems Feb 04 2020