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This textbook explains the conceptual and engineering principles of database design. Rather than focusing on how to implement a database management system, it focuses on building applications, and the theory underlying relational databases and relational query languages. An

ongoing case study illustrates both database and software engineering concepts. Originally published as *Databases and transaction processing* by Pearson Education in 2002; the second edition adds a chapter on database tuning and a section on UML. Annotation : 2004 Book News, Inc., Portland, OR (booknews.com). The Database and Expert Systems Applications (DEXA) conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems. DEXA covers a broad field: all aspects of databases, knowledge based systems, knowledge management, web-based systems, information systems, related technologies and their applications. Once again there were a good number of submissions: out of 183 papers that were submitted, the program committee selected 92 to be presented. In the first year of this new millennium DEXA has come back to the United Kingdom, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse, Vienna and Florence. The past decade has seen several revolutionary developments, one of which was the explosion of Internet-related applications in the areas covered by DEXA, developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade, starting with this conference. This textbook examines database systems from the viewpoint of a software developer. This perspective makes it possible to investigate why database systems are the way they are. It is of course important to be able to write queries, but it is equally important to know how they are processed. We e.g. don't want to just use JDBC; we also want to know why the API contains the classes and methods that it does. We need a sense of how hard is it to write a disk cache or logging facility. And what exactly is a database driver, anyway? The first two chapters provide a brief overview of database systems and their use. Chapter 1 discusses the purpose and features of a database system and introduces the Derby and SimpleDB systems. Chapter 2 explains how to write a database

application using Java. It presents the basics of JDBC, which is the fundamental API for Java programs that interact with a database. In turn, Chapters 3-11 examine the internals of a typical database engine. Each chapter covers a different database component, starting with the lowest level of abstraction (the disk and file manager) and ending with the highest (the JDBC client interface); further, the respective chapter explains the main issues concerning the component, and considers possible design decisions. As a result, the reader can see exactly what services each component provides and how it interacts with the other components in the system. By the end of this part, s/he will have witnessed the gradual development of a simple but completely functional system. The remaining four chapters then focus on efficient query processing, and focus on the sophisticated techniques and algorithms that can replace the simple design choices described earlier. Topics include indexing, sorting, intelligent buffer usage, and query optimization. This text is intended for upper-level undergraduate or beginning graduate courses in Computer Science. It assumes that the reader is comfortable with basic Java programming; advanced Java concepts (such as RMI and JDBC) are fully explained in the text. The respective chapters are complemented by “end-of-chapter readings” that discuss interesting ideas and research directions that went unmentioned in the text, and provide references to relevant web pages, research articles, reference manuals, and books. Conceptual and programming exercises are also included at the end of each chapter. Students can apply their conceptual knowledge by examining the SimpleDB (a simple but fully functional database system created by the author and provided online) code and modifying it. 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. **DATABASE SYSTEMS: DESIGN, IMPLEMENTATION, AND MANAGEMENT, NINTH EDITION**, a market-leader for database texts, gives readers a solid foundation in practical database design and implementation. The book 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. -Updated coverage of data models. -Improved coverage of normalization with a data modeling checklist. -Enhanced coverage of of database design and life cycle. -New review questions, problem sets, and cases throughout the book. With a strong hands-on component that includes real-world examples and exercises, this book will help students develop database design skills that have valuable and meaningful application in the real world. Advanced information technology is pervasive in any kind of human activity - science, business, finance, management and others - and this is particularly true for database systems. Both database theory and database applications constitute a very important part of the state of the art of computer science. Meanwhile there is some discrepancy between different aspects of database activity. Theoreticians are sometimes not much aware of the real needs of business and industry; software specialists not always have the time or the opportunity to get acquainted with the most recent theoretical ideas and trends, as well as with advanced prototypes arising from these ideas; potential users often do not have the possibility of evaluating the theoretical foundations and the potential practical impact of different commercial products. So the main goal of the course was to put together people involved in different aspects of database activity and to promote active exchange of ideas among them. The number of new applications in need of database support is exploding

and there is an increasing need to link and access database systems supporting these new applications via computer networks. End-users and non-computer experts are becoming heavily involved in the set-up, management and use of database systems and this book provides the important database design methodologies and implementation technology which should be available for them as well as for computer experts. This book is a concise and modern treatment of introductory database topics that enlists Java and the Internet to present core DBMS theory from an applications perspective. It incorporates programming and database applications when presenting the core theory behind DBMS and their applications. Information management is the central theme of this book. It motivates the development of data models and the representation of information in relational database systems. Readers learn how to define database content with Entity-Relationship models, and how to represent that content in relational systems. They become thoroughly familiar with the SQL language, and learn exactly what is required to build quality information-rich applications. This book is appropriate for readers interested in learning about database systems while applying the theory using Java and the Internet. This book is a comprehensive, practical, and student-friendly textbook addressing fundamental concepts in database design and applications. This proceedings volume contains 52 technical research papers on multidatabases, distributed DB, multimedia DB, object-oriented DB, real-time DB, temporal DB, deductive DB, and intelligent user interface. Some industrial papers are also included.

Contents: Relational Query Formulation by Pseudonatural Language Text Manipulation (H Amano & Y Kambayashi) Efficient Global Transaction Management in Multidatabase Systems (S Mehrotra et al.) Determining Schema Interdependencies in Object-Oriented Multidatabase Systems (J Yang & M P Papazoglou) An Object-Centered Data Model for Engineering Design Databases (H Zhao & A Biliris) Generating Object-Oriented Views from an ER-Based Conceptual Schema (T-W Ling et al.) Scheduling and Concurrency Control for Real-Time Database Systems (S H Son & S Park) Query Processing Techniques in the Team-Oriented Database Query Language (J-T Horng et al.) A

Knowledge Based System Converting ER Model into an Object-Oriented Database Schema (I-Y Song & H M Godsey) Logical Data Independence Via Views: A Misapprehension? (J M de Graaff et al.) Temporal Query Processing for Scene Retrieval in Motion Image Databases (J Takahashi) Qualitative Behavior Modeling of Information Processing Components (S H Oh et al.) A Multimedia Database for an Advanced Teleshopping Application (D Maino et al.)

Readership: Computer scientists. Recent years have seen an explosive growth in the use of new database applications such as CAD/CAM systems, spatial information systems, and multimedia information systems. The needs of these applications are far more complex than traditional business applications. They call for support of objects with complex data types, such as images and spatial objects, and for support of objects with wildly varying numbers of index terms, such as documents. Traditional indexing techniques such as the B-tree and its variants do not efficiently support these applications, and so new indexing mechanisms have been developed. As a result of the demand for database support for new applications, there has been a proliferation of new indexing techniques. The need for a book addressing indexing problems in advanced applications is evident. For practitioners and database and application developers, this book explains best practice, guiding the selection of appropriate indexes for each application. For researchers, this book provides a foundation for the development of new and more robust indexes. For newcomers, this book is an overview of the wide range of advanced indexing techniques. Indexing Techniques for Advanced Database Systems is suitable as a secondary text for a graduate level course on indexing techniques, and as a reference for researchers and practitioners in industry. This volume constitutes the proceedings of the 5th International Conference on Database and Expert Systems Applications (DEXA '94), held in Athens, Greece in September 1994. The 78 papers presented were selected from more than 300 submissions and give a comprehensive view of advanced applications of databases and expert systems. Among the topics covered are object-oriented, temporal, active, geographical, hypermedia and distributed databases, data management, cooperative office applications,

object-oriented modelling, industrial applications, conceptual modelling, legal systems, evolving environments, knowledge engineering, information retrieval, advanced querying, medical systems, and CIM. This book constitutes the refereed proceedings of the 9th International Conference on Database and Expert Systems Applications, DEXA'98, held in Vienna, Austria, in August 1998. The 81 revised full papers presented were carefully selected from a total of more than 200 submissions. The papers are organized in sections on active databases, object-oriented systems, data engineering, information retrieval, workflow and cooperative systems, spatial and temporal aspects, document management, spatial databases, adaptation and view updates, genetic algorithms, cooperative and distributed environments, interaction and communication, transaction, advanced applications, temporal aspects, oriented systems, partitioning and fragmentation, database queries, data, data warehouses, knowledge discovery and data mining, knowledge extraction, and knowledge base reduction for comprehension and reuse. With a unique systematic coverage of next-generation databasing, this essential handbook gives computing professionals working in distributed systems a one-stop source of information and tips on the design, operation, and use of database management systems for a wide variety of applications. The Database and Expert Systems Applications (DEXA) conferences bring together researchers and practitioners from all over the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers are at once a record of what has been achieved and the first steps towards shaping the future of information systems. DEXA covers a broad field, and all aspects of database, knowledge base and related technologies and their applications are represented. Once again there were a good number of submissions: 241 papers were submitted and of these the programme committee selected 103 to be presented. DEXA'99 took place in Florence and was the tenth conference in the series, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse and Vienna. The decade has seen many developments in the areas covered by DEXA, developments in which DEXA has played its part. I would like to express

thanks to all the institutions which have actively supported and made possible this conference, namely: • University of Florence, Italy • IDG CNR, Italy • FAW – University of Linz, Austria • Austrian Computer Society • DEXA Association In addition, we must thank all the people who have contributed their time and effort to make the conference possible. Special thanks go to Maria Schweikert (Technical University of Vienna), M. Neubauer and G. Wagner (FAW, University of Linz). We must also thank all the members of the programme committee, whose careful reviews are important to the quality of the conference. The three-volume set LNCS 13245, 13246 and 13247 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2022, held online, in April 2021. The total of 72 full papers, along with 76 short papers, are presented in this three-volume set was carefully reviewed and selected from 543 submissions.

Additionally, 13 industrial papers, 9 demo papers and 2 PhD consortium papers are included. The conference was planned to take place in Hyderabad, India, but it was held virtually due to the COVID-19 pandemic. The Database and Expert Systems Applications - DEXA - conferences are dedicated to providing an international forum for the presentation of applications in the database and expert systems field, for the exchange of ideas and experiences, and for defining requirements for the future systems in these fields. After the very promising DEXA 90 in Vienna, Austria, we hope to have successfully established with this year's DEXA 91 a stage where scientists from diverse fields interested in application-oriented research can present and discuss their work. This year there was a total of more than 250 submitted papers from 28 different countries, in all continents. Only 98 of the papers could be accepted. The collection of papers in these proceedings offers a cross-section of the issues facing the area of databases and expert systems, i.e., topics of basic research interest on one hand and questions occurring when developing applications on the other. Major credit for the success of the conference goes to all of our colleagues who submitted papers for consideration and to those who have organized and chaired the panel sessions. Many persons contributed numerous hours to organize this

conference. The names of most of them will appear on the following pages. In particular we wish to thank the Organization Committee Chairmen Johann Gordesch, A Min Tjoa, and Roland Wagner, who also helped establishing the program. Special thanks also go to Gabriella Wagner and Anke Ruckert. Dimitris Karagiannis General Conference Chairman Contents Conference Committee. This two volume set LNCS 8644 and LNCS 8645 constitutes the refereed proceedings of the 25th International Conference on Database and Expert Systems Applications, DEXA 2014, held in Munich, Germany, September 1-4, 2014. The 37 revised full papers presented together with 46 short papers, and 2 keynote talks, were carefully reviewed and selected from 159 submissions. The papers discuss a range of topics including: data quality; social web; XML keyword search; skyline queries; graph algorithms; information retrieval; XML; security; semantic web; classification and clustering; queries; social computing; similarity search; ranking; data mining; big data; approximations; privacy; data exchange; data integration; web semantics; repositories; partitioning; and business applications. This book constitutes the workshop proceedings of the 15th International Conference on Database Systems for Advanced Applications, DASFAA 2010, held in Tsukuba, Japan, in April 2010. The volume contains six workshops, each focusing on specific research issues that contribute to the main themes of the DASFAA conference: The First International Workshop on Graph Data Management: Techniques and Applications (GDM 2010), The Second International Workshop on Benchmarking of Database Management Systems and Data-Oriented Web Technologies (BenchmarkX'10); The Third International Workshop on Managing Data Quality in Collaborative Information Systems (MCIS2010), The Workshop on Social Networks and Social Media Mining on the Web (SNSMW2010), The Data Intensive eScience Workshop (DIEW 2010), and The Second International Workshop on Ubiquitous Data Management (UDM2010). Database Systems: Design, Implementation, and Management, Eighth Edition, a market-leader for database texts, gives readers a solid foundation in practical database design and implementation. The book 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. Updates for the eighth edition include additional Unified Modeling Language coverage, expanded coverage of SQL Server functions, all-new business intelligence coverage, and added coverage of data security. With a strong hands-on component that includes real-world examples and exercises, this book will help students develop database design skills that have valuable and meaningful application in the real world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Database and Data Communication Network Systems examines the utilization of the Internet and Local Area/Wide Area Networks in all areas of human endeavor. This three-volume set covers, among other topics, database systems, data compression, database architecture, data acquisition, asynchronous transfer mode (ATM) and the practical application of these technologies. The international collection of contributors was culled from exhaustive research of over 100,000 related archival and technical journals. This reference will be indispensable to engineering and computer science libraries, research libraries, and telecommunications, networking, and computer companies. It covers a diverse array of topics, including:

- * Techniques in emerging database system architectures
- * Techniques and applications in data mining
- * Object-oriented database systems
- * Data acquisition on the WWW during heavy client/server traffic periods
- * Information exploration on the WWW
- * Education and training in multimedia database systems
- * Data structure techniques in rapid prototyping and manufacturing
- * Wireless ATM in data networks for mobile systems
- * Applications in corporate finance
- * Scientific data visualization
- * Data compression and information retrieval
- * Techniques in medical systems, intensive care units

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. Introduces techniques for building applications that integrate large databases with web interfaces. Using a three-tier architecture, the book focuses on the middle tier and the application logic that brings together the fundamentally different client and database tiers. The authors explain the principles behind searching, browsing, storing user data, validating user input, managing user transactions, and security. Annotation copyrighted by Book News, Inc., Portland, OR. "Addresses the evolution of database management, technologies and applications along with the progress and endeavors of new research areas."--P. xiii. Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures DEXA 2005, the 16th International Conference on Database and Expert Systems Applications, was held at the Copenhagen Business School, Copenhagen, Denmark, from August 22 to 26, 2005. The success of the DEXA series has partly been due to the

way in which it has kept abreast of recent developments by spawning specialized workshops and conferences each with its own proceedings. In 2005 the DEXA programme was co-located with the 7th International Conference on Data Warehousing and Knowledge Discovery [DaWaK 2005], the 6th International Conference on Electronic Commerce and Web Technologies [EC-Web 2005], the 4th International Conference on Electronic Government [EGOV 2005], the 2nd International Conference on Trust, Privacy, and Security in Digital Business [TrustBus 2005], the 2nd International Conference on Industrial Applications of Holonic and Multi-agent Systems [HoloMAS 2005], as well as 19 specialized workshops. These proceedings are the result of a considerable amount of hard work. Beginning with the preparation of submitted papers, the papers went through the reviewing process. This process was supported by online discussion between the reviewers to determine the final conference program. The authors of accepted papers revised their manuscripts to produce this fine collection. DEXA 2005 received 390 submissions, and from those the Program Committee selected the 92 papers in these proceedings. This year the reviewing process generated more than 1000 referee reports. The hard work of the authors, the referees and the Program Committee is gratefully acknowledged. This two-volume set LNCS 10827 and LNCS 10828 constitutes the refereed proceedings of the 23rd International Conference on Database Systems for Advanced Applications, DASFAA 2018, held in Gold Coast, QLD, Australia, in May 2018. The 83 full papers, 21 short papers, 6 industry papers, and 8 demo papers were carefully selected from a total of 360 submissions. The papers are organized around the following topics: network embedding; recommendation; graph and network processing; social network analytics; sequence and temporal data processing; trajectory and streaming data; RDF and knowledge graphs; text and data mining; medical data mining; security and privacy; search and information retrieval; query processing and optimizations; data quality and crowdsourcing; learning models; multimedia data processing; and distributed computing. Next-generation database technology; Object-oriented database; Technology for interoperating legacy databases; The

OMG object model; Object SQL. Burleson provides tried-and-true advice for administrators and developers who use the SAP business system and the Oracle database a system in combination. IT covers SAP's SAPDBA and SAPGUI utilities and describes effective data file placement, initialization parameters, and monitoring techniques, as well as high-performance table reorganization, backup, recovering, tuning and parallel processing. This two volume set LNCS 9642 and LNCS 9643 constitutes the refereed proceedings of the 21st International Conference on Database Systems for Advanced Applications, DASFAA 2016, held in Dallas, TX, USA, in April 2016. The 61 full papers presented were carefully reviewed and selected from a total of 183 submissions. The papers cover the following topics: crowdsourcing, data quality, entity identification, data mining and machine learning, recommendation, semantics computing and knowledge base, textual data, social networks, complex queries, similarity computing, graph databases, and miscellaneous, advanced applications. Designed for students learning databases for the first time, 'Database Systems: An Application Oriented Approach', second edition, presents the conceptual principles underlying design and implementation of databases and their applications. It thoroughly covers the theory underlying relational databases and relational query languages. Database management is attracting wide interest in both academic and industrial contexts. New application areas such as CAD/CAM, geographic information systems, and multimedia are emerging. The needs of these application areas are far more complex than those of conventional business applications. The purpose of this book is to bring together a set of current research issues that addresses a broad spectrum of topics related to database systems and applications. The book is divided into four parts: - object-oriented databases, - temporal/historical database systems, - query processing in database systems, - heterogeneity, interoperability, open system architectures, multimedia database systems. Pearson introduces the seventh edition of its best seller on database systems by Elmasri and Navathe. This edition is thoroughly revised to provide an in-depth and up-to-date presentation of the most important aspects of database systems and applications,

Continuous improvements in data analysis and cloud computing have allowed more opportunities to develop systems with user-focused designs. This not only leads to higher success in day-to-day usage, but it increases the overall probability of technology adoption. **Advancing Cloud Database Systems and Capacity Planning With Dynamic Applications** is a key resource on the latest innovations in cloud database systems and their impact on the daily lives of people in modern society. Highlighting multidisciplinary studies on information storage and retrieval, big data architectures, and artificial intelligence, this publication is an ideal reference source for academicians, researchers, scientists, advanced level students, technology developers and IT officials. **Database Management Systems: Understanding and Applying Database Technology** focuses on the processes, methodologies, techniques, and approaches involved in database management systems (DBMSs). The book first takes a look at ANSI database standards and DBMS applications and components. Discussion focus on application components and DBMS components, implementing the dynamic relationship application, problems and benefits of dynamic relationship DBMSs, nature of a dynamic relationship application, ANSI/NDL, and DBMS standards. The manuscript then ponders on logical database, interrogation, and physical database. Topics include choosing the right interrogation language, procedure-oriented language, system control capabilities, DBMSs and language orientation, logical database components, and data definition language. The publication examines system control, including system control components, audit trails, reorganization, concurrent operations, multiple database processing, security and privacy, system control static and dynamic differences, and installation and maintenance. The text is a valuable source of information for computer engineers and researchers interested in exploring the applications of database technology.