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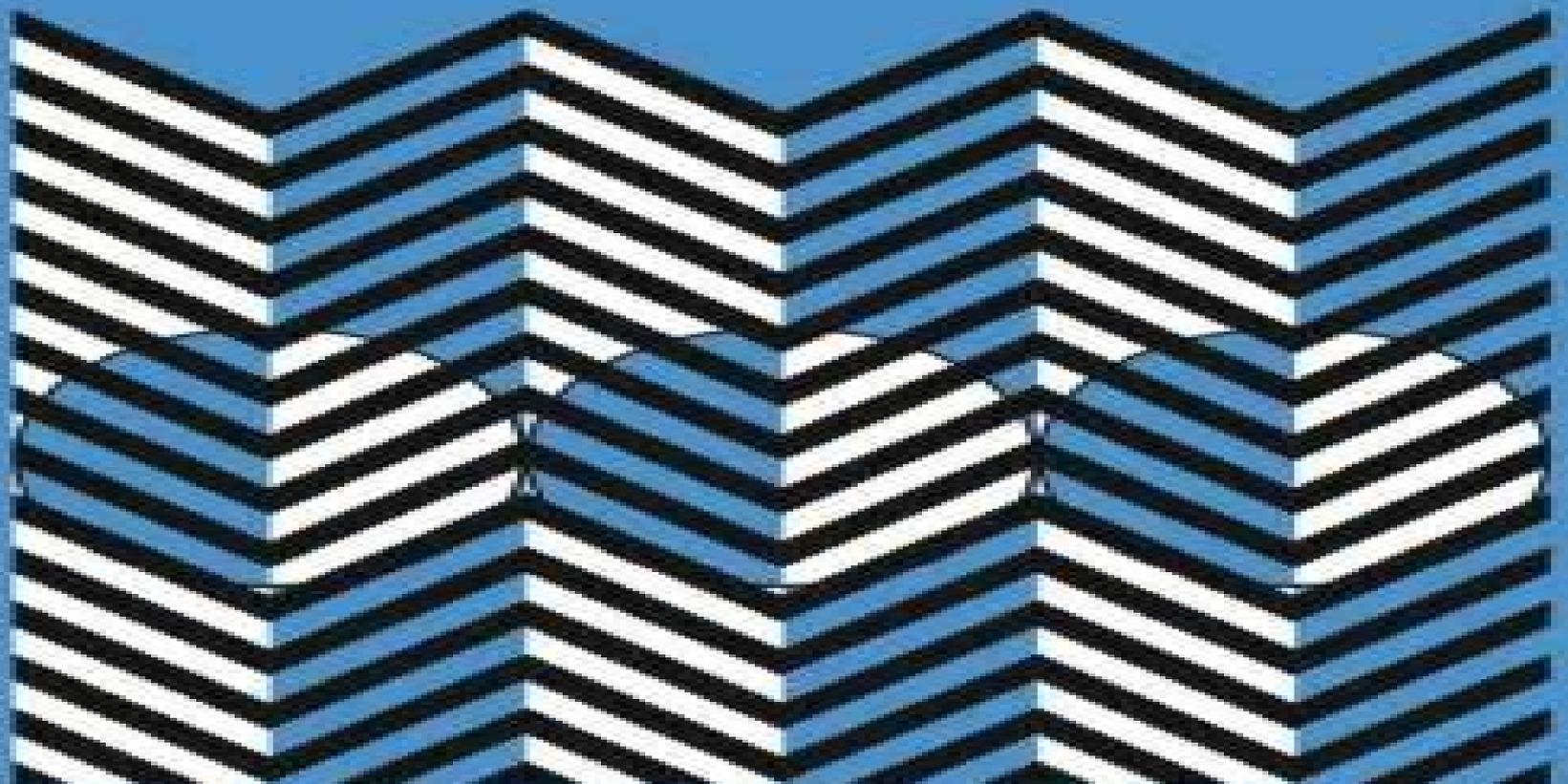
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Applications Of Logic Databases:

Applications of Logic Databases Raghu Ramakrishnan,2012-12-06 The premise behind developing powerful declarative database languages is compelling by enabling users to specify their queries and their integrity constraints in a clear non operational way they make the user s task easier and provide the database system with more opportunities for optimization Relational database systems offer a striking proof that this premise is indeed valid The most popular relational query language SQL is based upon relational algebra and calculus i e a small fragment of first order logic and the ease of writing queries in SQL in comparison to more navigational languages has been an important factor in the commercial success of relational databases It is well known that SQL has some important limitations in spite of its success and popUlarity Notably the query language is non recursive and support for integrity constraints is limited Indeed recognizing these problems the latest standard SQL 92 provides increased support for integrity constraints and it is anticipated that the successor to the SQL 92 standard called SQL3 RECURSIVE UNION operation 1 Logic database systems have will include a concentrated on these extensions to the relational database paradigm and some systems e g Bull s DEL prototype have even incorporated object oriented features another extension likely to appear in SQL3   **Applications of Logic Databases** Raghu Ramakrishnan,1995 The premise behind developing powerful declarative database languages is compelling by enabling users to specify their queries and their integrity constraints in a clear non operational way they make the user s task easier and provide the database system with more opportunities for optimization Relational database systems offer a striking proof that this premise is indeed valid The most popular relational query language SQL is based upon relational algebra and calculus i e a small fragment of first order logic and the ease of writing queries in SQL in comparison to more navigational languages has been an important factor in the commercial success of relational databases It is well known that SQL has some important limitations in spite of its success and popUlarity Notably the query language is non recursive and support for integrity constraints is limited Indeed recognizing these problems the latest standard SQL 92 provides increased support for integrity constraints and it is anticipated that the successor to the SQL 92 standard called SQL3 RECURSIVE UNION operation 1 Logic database systems have will include a concentrated on these extensions to the relational database paradigm and some systems e g Bull s DEL prototype have even incorporated object oriented features another extension likely to appear in SQL3

Logics for Emerging Applications of Databases Jan Chomicki,Ron van der Meyden,Gunter Saake,2003-08-26 In this era of heterogeneous and distributed data sources ranging from semistructured documents to knowledge about coordination processes or workflows logic provides a rich set of tools and techniques with which to address the questions of how to represent query and reason about complex data This book provides a state of the art overview of research on the application of logic based methods to information systems covering highly topical and emerging fields XML programming and querying intelligent agents workflow modeling and verification data integration temporal and dynamic information data mining

authorization and security It provides both scientists and graduate students with a wealth of material and references for their own research and education **Theory and Practice of Relational Databases** Stefan Stanczyk,Bob Champion,Richard Leyton,2003-09-02 The study of relationship databases is a core component of virtually every undergraduate computer science degree course This new edition of Theory and Practice of Relationship Databases retains all the features that made the previous edition such as success and goes on to give even more comprehensive and informative coverage Written in a tutorial style and containing a great many examples and exercises as well as extensively using illustrative and explanatory graphics the author has produced an undergraduate textbook of great depth and clarity that is very easy to follow The subject of relational databases is brought to life by the writing style and the inclusion of an homogenous case study that reinforces the issues dealt with in each chapter The primary objective of the book is to present a comprehensive explanation of the process of development of database application systems within the framework of a set processing paradigm Since the majority of these applications are built as relationship systems a complete though reasonably concise account of that model is presented Dr Stanczyk has achieved this by concentrating on the issues that contribute significantly to the application development while de emphasizing purely theoretical aspects of the subject This has led to an imaginative and highly practical textbook that will be an excellent read for the undergraduate computer science student **Foundations of Knowledge Base Management** Joachim W. Schmidt,Costantino Thanos,2012-12-06 In the past applied artificial intelligence systems were built with particular emphasis on general reasoning methods intended to function efficiently even when only relatively little domain specific knowledge was available In other words AI technology aimed at the processing of knowledge stored under comparatively general representation schemes Nowadays the focus has been redirected to the role played by specific and detailed knowledge rather than to the reasoning methods themselves Many new application systems are centered around knowledge bases i e they are based on large collections offacts rules and heuristics that cap ture knowledge about a specific domain of applications Experience has shown that when used in combination with rich knowledge bases even simple reasoning methods can be extremely effective in a wide variety of problem domains Knowledge base construction and management will thus become the key factor in the development of viable knowledge based ap plications Knowledge Base Management Systems KBMSs are being proposed that provide user friendly environments for the construction retrieval and manipUlation of large shared knowledge bases In addition to deductive reasoning KBMSs require operational characteristics such as concurrent access integrity maintenance error recovery security and perhaps distribution For the development ofKBMSs the need to integrate concepts and technologies from different areas such as Artificial Intel ligence Databases and Logic has been widely recognized One of the central issues for KBMSs is the framework used for knowledge representation semantic networks frames rules and logics are proposed by the AI and logic communities **Software Maintenance - A Management Perspective** Phaneendra Nath Vellanky,2007-10-23 Computer systems play an important role in our society

Software drives those systems Massive investments of time and resources are made in developing and implementing these systems Maintenance is inevitable It is hard and costly Considerable resources are required to keep the systems active and dependable We cannot maintain software unless maintainability characters are built into the products and processes There is an urgent need to reinforce software development practices based on quality and reliability principles Though maintenance is a mini development lifecycle it has its own problems Maintenance issues need corresponding tools and techniques to address them Software professionals are key players in maintenance While development is an art and science maintenance is a craft We need to develop maintenance personnel to master this craft Technology impact is very high in systems world today We can no longer conduct business in the way we did before That calls for reengineering systems and software Even reengineered software needs maintenance soon after its implementation We have to take business knowledge procedures and data into the newly reengineered world Software maintenance people can play an important role in this migration process Software technology is moving into global and distributed networking environments Client server systems and object orientation are on their way Massively parallel processing systems and networking resources are changing database services into corporate data warehouses Software engineering environments rapid application development tools are changing the way we used to develop and maintain software Software maintenance is moving from code maintenance to design maintenance even onto specification maintenance Modifications today are made at specification level regenating the software components testing and integrating them with the system Eventually software maintenance has to manage the evolution and evolutionary characteristics of software systems Software professionals have to maintain not only the software but the momentum of change in systems and software In this study we observe various issues tools and techniques and the emerging trends in software technology with particular reference to maintenance We are not searching for specific solutions We are identifying issues and finding ways to manage them live with them and control their negative impact

Proceedings of the Twenty-fourth International Conference on Very Large Databases, New York, NY, USA, 24-27 August, 1998 Ashish Gupta,Oded Shmueli,Jennifer Widom,1998   Applications of Database Logic to Database Design University of Maryland at College Park. Computer Science Center,B. E. Jacobs,19??   *MCSD in a Nutshell* James D. Foxall,2000 With its comprehensive overview of core technology areas MCSD in a Nutshell is the perfect study guide and resource to help developers master technologies with which they relatively are inexperienced   *Logics for Databases and Information Systems* Jan Chomicki,Gunter Saake,2012-12-06 Time is ubiquitous in information systems Almost every enterprise faces the problem of its data becoming out of date However such data is often valu able so it should be archived and some means to access it should be provided Also some data may be inherently historical e g medical cadastral or ju dicial records Temporal databases provide a uniform and systematic way of dealing with historical data Many languages have been proposed for tem poral databases among others temporal logic Temporal logic combines ab stract formal semantics with the

amenability to efficient implementation This chapter shows how temporal logic can be used in temporal database applica tions Rather than presenting new results we report on recent developments and survey the field in a systematic way using a unified formal framework GHR94 Ch094 The handbook GHR94 is a comprehensive reference on mathematical foundations of temporal logic In this chapter we study how temporal logic is used as a query and integrity constraint language Consequently model theoretic notions particularly for mula satisfaction are of primary interest Axiomatic systems and proof meth ods for temporal logic GHR94 have found so far relatively few applications in the context of information systems Moreover one needs to bear in mind that for the standard linearly ordered time domains temporal logic is not re cursively axiomatizable GHR94 so recursive axiomatizations are by necessity incomplete   **Computerworld** ,1994-02-14 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network   *The ... International Conference on Computers and Applications* ,1987   **Oracle Essentials** Rick Greenwald,Robert Stackowiak,Jonathan Stern,2013-09-06 Written by Oracle insiders this indispensable guide distills an enormous amount of information about the Oracle Database into one compact volume Ideal for novice and experienced DBAs developers managers and users Oracle Essentials walks you through technologies and features in Oracle s product line including its architecture data structures networking concurrency and tuning Complete with illustrations and helpful hints this fifth edition provides a valuable one stop overview of Oracle Database 12c including an introduction to Oracle and cloud computing Oracle Essentials provides the conceptual background you need to understand how Oracle truly works Topics include A complete overview of Oracle databases and data stores and Fusion Middleware products and features Core concepts and structures in Oracle s architecture including pluggable databases Oracle objects and the various datatypes Oracle supports System and database management including Oracle Enterprise Manager 12c Security options basic auditing capabilities and options for meeting compliance needs Performance characteristics of disk memory and CPU tuning Basic principles of multiuser concurrency Oracle s online transaction processing OLTP Data warehouses Big Data and Oracle s business intelligence tools Backup and recovery and high availability and failover solutions   *Data Processing Digest* ,1994   The Second International Conference on Computers and Applications, Beijing (Peking), People's Republic of China, June 23-27, 1987 ,1987   **Building Highly Scalable Database Applications with .NET** Wallace B. McClure,John J. Croft,2002-06-25 This is the only book on the market to focus on addressing issues of building highly scalable database applications with NET technologies Comprehensive coverage includes building NET applications for all the major RDBMSs SQL Server Oracle DB2 and MySQL   **Deductive and Object-oriented Databases** Stefano Ceri,Katsumi Tanaka,Shalom Tsur,1993 This volume contains the proceedings of the Third International Conference on Deductive and Object Oriented Databases Its central tenet is that the object oriented and

deductive paradigms for modeling organizing and processing data complement each other rather than competing and that problems involving massive volumes of complex data can best be solved by integrating the best of both approaches Central questions in the area are How do we design a tool that presents the best of the object oriented and declarative ideas How can the users of this tool express their problems in a combination of declarative and procedural features The volume includes 29 papers that contribute towards answering these questions **Proceedings of the 1995 ACM SIGMOD International Conference on Management of Data** Michael Carey,1995 **Business Data Communications** William Stallings,2009 Business Data Communications 6 e covers the fundamentals of data communications networking distributed applications and network management and security Stallings presents these concepts in a way that relates specifically to the business environment and the concerns of business management and staff structuring his text around requirements ingredients and applications All of the material has been updated for the latest technologies and developments in the field including specifications of WiFi IEEE 802 11 wireless LANs including 802 11n IP performance metrics and service level agreements SLAs Gigabit Ethernet and 10 Gbps Ethernet standards New unified communications concepts expanded enhanced security material New online animations illustrate key functions and algorithms in OS design Appropriate for professionals interested in business data communications **PC Magazine** ,2002

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