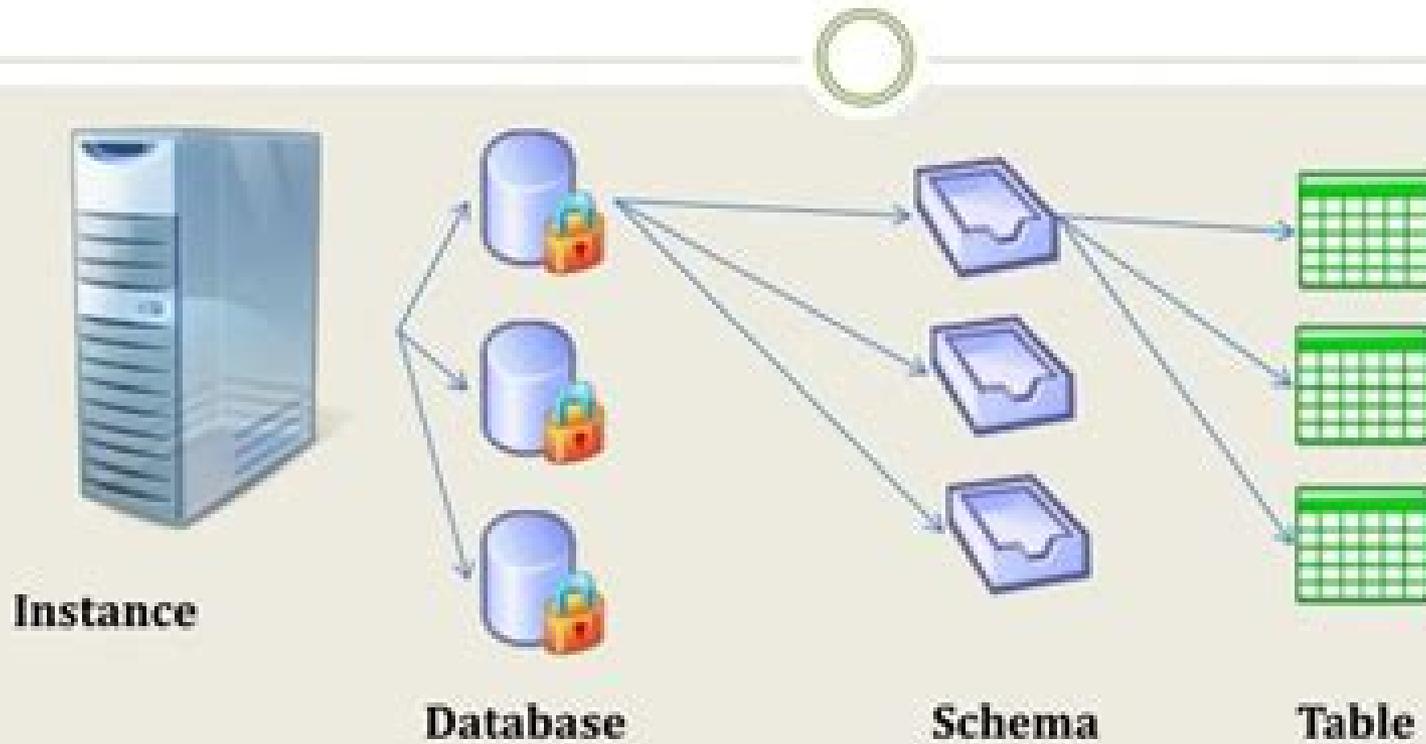


Logical Database Structure



Updating Logical Databases

Marianne Winslett Wilkins



Updating Logical Databases:

Updating Logical Databases Marianne Winslett, 2005-02-17 This book tackles the problems of update algorithms for databases How can one construct and maintain a database of facts capable of incorporating new information and getting rid of all outdated information and yet in the process not disturb any other information in the database The author has produced a formal method of specifying the desired change intentionally using a formula based approach to updating needs rather than a model based technique The complexity of the algorithms choice of semantics and means of enforcing integrity constraints are also discussed *Updating Logical Databases* International Business Machines Corporation. Research Division, R. Fagin, G. M. Kuper, J. D. Ullman, M. Y. Vardi, 1984 The authors suggest a new approach to database updates in which a database is treated as a collection of theories They investigate two issues simultaneous multiple update operations and equivalence of databases under update operations Author *A Model-theoretic Approach to Updating Logical Databases* Marianne Winslett Wilkins, 1986 **Transactions and Change in Logic Databases** Burkhard Freitag, 1998-10-28 This book constitutes the thoroughly refereed and revised post workshop proceedings of two international meetings devoted to deductive databases and logic programming The technical papers presenting original research results were carefully reviewed and selected for inclusion in the present book together with several survey articles summarizing the state of the art in the area Thus the book is the ultimate reference for anybody interested in the theory and application of deductive databases and logic programming **Modelling Database Dynamics** Udo W. Lipeck, Bernhard Thalheim, 2013-03-09 Database modelling is concerned with the design of reliable and efficient database systems Three different approaches to modelling can be identified structure oriented process oriented and behaviour oriented Database literature has traditionally focused on structure oriented approaches but it is now widely recognised that problems can be solved more effectively by integrating all three As a result modelling database dynamics is now considered to be as important as modelling static database structures This volume contains selected papers from the Fourth International Workshop on Foundations of Models and Languages for Data and Objects held in Volkse Germany 19-22 October 1992 This series of international workshops was initiated by the Working Group on Foundations of Information Systems part of the German Association for Informatics It provides an international forum for the discussion of current research into database theory and its application to database technology The theme of this particular workshop was modelling the dynamic behaviour of database systems in formal frameworks As object oriented principles are being widely used in current research work particular emphasis was also given to object dynamics Among the topics covered in this volume are specifying the dynamics of complex objects databases updates in a rule based language for objects an order sorted approach to active objects non deterministic aspects of database transformations involving object creation monitoring temporal permissions using partially evaluated transition graphs a formalisation of logic databases and integrity constraints a comparison of approaches for modelling dynamics of databases

Modelling Database Dynamics provides a comprehensive overview of current research into the modelling and use of database dynamics It will provide invaluable reading for researchers postgraduate students and anyone interested in the theoretical foundations of computer science

Deductive and Object-Oriented Databases Francois Bry,Raghu

Ramakrishnan,Kotagiri Ramamohanarao,1997-11-12 This book constitutes the refereed proceedings of the 5th International Conference on Deductive and Object Oriented Databases DOOD 97 held in Montreux Switzerland in December 1997 The 22 revised full papers presented in this book were selected from a total of 59 submissions Also included are abstracts or full versions of three invited talks and three tutorials and six short presentations The papers are organized in topical sections on materialized view maintenance extending DBMs features database updates managing change in object databases semantics of active databases formal semantics and new directions

Database Theory - ICDT '92 Joachim Biskup,Richard

Hull,1992-10-05 The papers in this volume were presented at the International Conference on Database Theory held in Berlin Germany October 14 16 1992 This conference initiated the merger of two series of conferences on theoretical aspects of databases that were formed in parallel by different scientific communities in Europe The first series was known as the International Conference on Database Theory and the second as the Symposium on Mathematical Fundamentals of Database Systems In the future ICDT will be organized every two years alternating with the more practically oriented series of conferences on Extending Database Technology EDBT The volume contains 3 invited lectures and 26 contributed papers selected from a total of 107 submissions The papers are organized into sections on constraints and decomposition query languages updates and active databases concurrency control and recovery knowledge bases datalog complexity and optimization object orientation information capacity and security and data structures and algorithms Two of the invited papers survey research into theoretical database issues done in Eastern Europe during the past decade

Advances in Conceptual Modeling Peter P. Chen,David W. Embley,Jacques Kouloumdjian,Stephen W. Liddle,John F. Roddick,2007-07-16

The objective of the workshops associated with the ER 99 18th International Conference on Conceptual Modeling is to give participants access to high level presentations on specialized hot or emerging scientific topics Three themes have been selected in this respect Evolution and Change in Data Management ECDM 99 dealing with handling the evolution of data and data structure Reverse Engineering in Information Systems REIS 99 aimed at exploring the issues raised by legacy systems The World Wide Web and Conceptual Modeling WWCM 99 which analyzes the mutual contribution of WWW resources and techniques with conceptual modeling ER 99 has been organized so that there is no overlap between conference sessions and the workshops Therefore participants can follow both the conference and the workshop presentations they are interested in I would like to thank the ER 99 program co chairs Jacky Akoka and Mokrane Bouzeghoub for having given me the opportunity to organize these workshops I would also like to thank Stephen Liddle for his valuable help in managing the evaluation procedure for submitted papers and helping to prepare the workshop proceedings for

publication August 1999 Jacques Kouloumdjian Preface for ECDM 99 The first part of this volume contains the proceedings of the First International Workshop on Evolution and Change in Data Management ECDM 99 which was held in conjunction with the 18th International Conference on Conceptual Modeling ER 99 in Paris France November 15 18 1999 **Logic for Programming, Artificial Intelligence, and Reasoning** Robert Nieuwenhuis, Andrei Voronkov, 2003-06-30 This volume contains the papers presented at the Eighth International Conference on Logic for Programming Artificial Intelligence and Reasoning LPAR 2001 held on December 3 7 2001 at the University of Havana Cuba together with the Second International Workshop on Implementation of Logics There were 112 submissions of which 19 belonged to the special submission category of experimental papers intended to describe implementations or comparisons of systems or experiments with systems Each submission was viewed by at least three program committee members and an electronic program committee meeting was held via the Internet The high number of submissions caused a large amount of work and we are very grateful to the other 31 PC members for their efficiency and for the quality of their reviews and discussions Finally the committee decided to accept 40 papers in the theoretical category and 9 experimental papers In addition to the refereed papers this volume contains an extended abstract of the invited talk by Frank Wolter Two other invited lectures were given by Matthias Baaz and Manuel Hermenegildo Apart from the program committee we would also like to thank the other people who made LPAR 2001 possible the additional referees the Local Arrangements Chair Luciano Garcia Andres Navarro and Oscar Guell who ran the internet based submission software and the program committee discussion software at the LSI Department lab in Barcelona and Bill McCune whose program committee management software was used **ICDT '90** Serge Abiteboul, 1990-12-03 The emergence of new paradigms for data management raises a variety of exciting challenges An important goal of database theory is to answer these challenges by providing sound foundations for the development of the field This volume contains the papers selected for the third International Conference on Database Theory ICDT 90 The conferences in this series are held biannually in beautiful European cities Rome in 1986 and Bruges in 1988 with proceedings published as volumes 234 and 326 in the same series ICDT 90 was organized in Paris by the Institut National de Recherche en Informatique et Automatique The conference features 2 invited presentations and 31 papers selected from 129 submissions The papers describe original ideas and new results on the foundations of databases knowledge bases object oriented databases relational theory transaction management data structures and deductive databases The volume offers a good overview of the state of the art and the current trends in database theory It should be a valuable source of information for researchers interested in the field The Theory of Databases Paris C. Kanellakis, Franco P. Preparata, 1986 **Deductive and Object-oriented Databases** C. Delobel, Michael Kifer, Yoshifumi Masunaga, 1991 This volume is the proceedings of the Second International Conference on Deductive and Object Oriented Databases DOOD During the last decade deductive and object oriented systems have received a great deal of attention but for the most part these two fields were evolving independently of each

other Today there is a large body of work suggesting that the deductive and object oriented paradigms complement each other The object oriented paradigm is characterized by its view of the data whereby information is grouped around objects with complex internal structure accessed via methods The declarative paradigm is centered around the idea that data manipulation must be done through a declarative logic based language It is hoped that these two aspects brought together in one system will provide an integrated framework for a new database technology The DOOD conference brings together researchers and developers in the fields of deductive and object oriented databases to stimulate technical discussion and accelerate the integration of the two technologies This volume contains 28 contributed papers selected from 98 submissions and two invited papers by world renowned researchers

Foundations of Deductive Databases and Logic

Programming Jack Minker, 1988 Foundations of Deductive Databases and Logic Programming focuses on the foundational issues concerning deductive databases and logic programming The selection first elaborates on negation in logic programming and towards a theory of declarative knowledge Discussions focus on model theory of stratified programs fixed point theory of nonmonotonic operators stratified programs semantics for negation in terms of special classes of models relation between closed world assumption and the completed database negation as a failure and closed world assumption The book then takes a look at negation as failure using tight derivations for general logic programs declarative semantics of logic programs with negation and declarative semantics of deductive databases and logic programs The publication tackles converting AND control to OR control by program transformation optimizing dialog equivalences of logic programs unification and logic programming and parallel complexity Topics include parallelism and structured and unstructured data parallel algorithms and complexity solving equations most general unifiers systems of equations and inequations equivalences of logic programs and optimizing recursive programs The selection is a valuable source of data for researchers interested in pursuing further studies on the foundations of deductive databases and logic programming

Data & Knowledge Engineering, 1992 **Advances in Database Technology**, 1992 **Advances in Database Technology** A. Pirotte, C. Delobel, Georg Gottlob, 1992 *Proceedings*, 1993 *ICDT '...*, 1999 *Rules in Database Systems*, 1993

IJCAI Proceedings 1989 N. S. Sridharan, 1989-12 Conference held August 1989 Detroit Michigan Global contributions 38 countries are represented on both core and peripheral areas of AI research and applications tools intelligent tutoring systems cognitive models Also includes papers on commonsense reasoning speech and natural language an

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