



Database Constraints

Constraint Databases Constraint Databases

Raghu Ramakrishnan, Peter Stuckey



Constraint Databases Constraint Databases:

Constraint Databases and Applications Bart Kuijpers, Peter Revesz, 2004-10-14 The first International Symposium on the Applications of Constraint Databases CDB2004 took place in Paris France on June 12-13 2004 just before the ACM SIGMOD and PODS conferences Since the publication of the paper Constraint Query Languages by Gabriel Kuper and Peter Revesz in 1990 the last decade has seen a growing interest in constraint database theory query evaluation and applications reflected in a variety of conferences journals and books Constraint databases have proven to be extremely flexible and adoptable in environments that relational database systems cannot serve well such as geographic information systems and bioinformatics This symposium brought together people from several diverse areas all contributing to the practice and the application of constraint databases It was a continuation and extension of previous workshops held in Friedrichshafen Germany 1995 Cambridge USA 1996 Delphi Greece 1997 and Seattle USA 1998 as well as of the work in the comprehensive volume Constraint Databases edited by Gabriel Kuper Leonid Libkin and Jan Paredaens 2000 and the textbook Introduction to Constraint Databases by Peter Revesz 2002 The aim of the symposium was to open new and future directions in constraint database research to address constraints over domains other than the reals to contribute to a better implementation of constraint database systems in particular of query evaluation to address efficient quantifier elimination and to describe applications of constraint databases

Introduction to Constraint Databases Peter Revesz, 2002-01-08 Differing from other books on the subject this one uses the framework of constraint databases to provide a natural and powerful generalization of relational databases An important theme running through the text is showing how relational databases can smoothly develop into constraint databases without sacrificing any of the benefits of relational databases whilst gaining new advantages Peter Revesz begins by discussing data models and how queries may be addressed to them From here he develops the theory of relational and constraint databases including Datalog and the relational calculus concluding with three sample constraint database systems DISCO DINGO and RATHER Advanced undergraduates and graduates in computer science will find this a clear introduction to the subject while professionals and researchers will appreciate this novel perspective on their subject

Constraint Databases Gabriel Kuper, Leonid Libkin, Jan Paredaens, 2013-03-09 This book is the first comprehensive survey of the field of constraint databases Constraint databases are a fairly new and active area of database research The key idea is that constraints such as linear or polynomial equations are used to represent large or even infinite sets in a compact way The ability to deal with infinite sets makes constraint databases particularly promising as a technology for integrating spatial and temporal data with standard relational databases Constraint databases bring techniques from a variety of fields such as logic and model theory algebraic and computational geometry as well as symbolic computation to the design and analysis of data models and query languages The book is a collaborative effort involving many authors who have contributed chapters on their fields of expertise Despite this the book is designed to be read as a whole as opposed to a collection of individual

surveys In particular the terminology and the style of presentation have been standardized and there are multiple cross references between the chapters The idea of constraint databases goes back to the late Paris Kanellakis Introduction to Constraint Databases Peter Revesz,2004 This text presents the theory and applications of constraint database systems which provide new methods for the design of data models and query languages Constraints and Databases Raghu Ramakrishnan,Peter Stuckey,2012-12-06 Constraints and Databases contains seven contributions on the rapidly evolving research area of constraints and databases This collection of original research articles has been compiled as a tribute to Paris C Kanellakis one of the pioneers in the field Constraints have long been used for maintaining the integrity of databases More recently constraint databases have emerged where databases store and manipulate data in the form of constraints The generality of constraint databases makes them highly attractive for many applications Constraints provide a uniform mechanism for describing heterogenous data and advanced constraint solving methods can be used for efficient manipulation of constraint data The articles included in this book cover the range of topics involving constraints and databases join algorithms evaluation methods applications e g data mining and implementations of constraint databases as well as more traditional topics such as integrity constraint maintenance Constraints and Databases is an edited volume of original research comprising invited contributions by leading researchers *Constraint Databases and Applications* Volker Gaede,1996-12-19 This book presents the refereed proceedings of the Second International Workshop on Constraint Database Systems CDB 97 held in Delphi Greece in January 1997 together with some papers presented at the CP 96 Workshop on Constraints and Databases held in Cambridge Massachussetts in August 1996 The 18 revised full papers presented were carefully reviewed and selected for inclusion in the volume also included are the extended abstract of an invited contribution and two survey papers The papers are organized in sections on languages expressiveness of spatial languages systems temporal applications new applications indexing constraint programming and optimization

Constraint Databases and Applications Bart Kuijpers,Peter Revesz,2004-06-02 The rst International Symposium on the Applications of Constraint Databases CDB2004 took place in Paris France on June 12 13 2004 just before the ACM SIGMOD and PODS conferences Since the publication of the paper Constraint Query Languages by Kan lakis Kuper and Revesz in 1990 the last decade has seen a growing interest in constraint database theory query evaluation and applications re ected in a variety of conferences journals and books Constraint databases have proven to be extremely exible and adoptable in environments that relational database systems cannot serve well such as geographic information systems and bioinf matics This symposium brought together people from several diverse areas all c tributing to the practice and the application of constraint databases It was a continuation and extension of previous workshops held in Friedrichshafen G many 1995 Cambridge USA 1996 Delphi Greece 1997 and Seattle USA 1998 as well as of the work in the comprehensive volume Constraint Data ses edited by G Kuper L Libkin and J Paredaens 2000 and the textbook Introduction to Constraint

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Constraint Databases and Applications Gabriel Kuper, Mark Wallace, 1996 This book constitutes the refereed proceedings of the ESPRIT Working Group CONTESSA Workshop on Constraint Databases and Applications held in Friedrichshafen Germany in September 1995 The 10 full revised papers selected for inclusion in this volume are written by and for practitioners researchers and application users of core constraint database technology they can be classified in three sections on expressiveness of the various constraint database models implementation and optimization issues in areas like spatial databases geographic information systems scheduling and routing This book is the first to focus on the extension of the important new programming paradigm of constraint processing to database design and management PUBLISHER S WEBSITE

Constraint Databases and Applications Volker Gaede, Alexander Brodsky, Oliver Gunther, 2014-01-15

Constraint Databases and Applications, 1996 Inductive Databases and Constraint-Based Data Mining Sašo Džeroski, Bart Goethals, Panče Panov, 2010-11-18 This book is about inductive databases and constraint based data mining emerging research topics lying at the intersection of data mining and database research The aim of the book as to provide an overview of the state of the art in this novel and citing research area Of special interest are the recent methods for constraint based mining of global models for prediction and clustering the unification of pattern mining approaches through constraint programming the clarification of the relationship between mining local patterns and global models and the proposed integrative frameworks and approaches for inductive databases On the application side applications to practically relevant problems from bioinformatics are presented Inductive databases IDBs represent a database view on data mining and knowledge discovery IDBs contain not only data but also generalizations patterns and models valid in the data In an IDB ordinary queries can be used to access and manipulate data while inductive queries can be used to generate mine manipulate and apply patterns and models In the IDB framework patterns and models become first class citizens and KDD becomes an extended querying process in which both the data and the patterns models that hold in the data are queried

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Applications Gabriel Kuper, Mark Wallace, 2014-01-15 A Method for Compiling Efficient Constraint Checks in Database Programming Languages Ralph Edward Bunker, 1987 *Understanding Databases* Suzanne W. Dietrich, 2021-08-02

Understanding Databases Concepts and Practice is an accessible highly visual introduction to database systems for undergraduate students across many majors Designed for self contained first courses in the subject this interactive e textbook covers fundamental database topics including conceptual design the relational data model relational algebra and calculus Structured Query Language SQL database manipulation transaction management and database design theory Visual components and self assessment features provide a more engaging and immersive method of learning that enables students

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Recent Advances in Temporal Databases James Clifford,Alexander Tuzhilin,1995-09-29 This volume contains papers presented at the International Workshop on Temporal Databases held in Zurich Switzerland from 17 18 September 1995 The papers cover a wide range of topics from the highly theoretical through to reports on how temporal data bases can be used to solve real problems In addition to the technical papers there are also summaries of two panel discussions which assess the recently completed TSQL2 Language Design and examine the need for additional research into the development of TSQL3 Together these papers provide a comprehensive overview of the latest research work into the area of temporal databases They will provide invaluable reading for researchers postgraduate students and practitioners

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Modeling of Database Constraints in Active Databases S. B. Navathe,Georgia Institute of Technology. College of Computing. Project no. C-36-687,1993

Oracle Database 12c PL/SQL Programming Michael McLaughlin,2014-02-07 Master Oracle Database 12c PL SQL Application Development Develop debug and administer robust database programs Filled with detailed examples and expert strategies from an Oracle ACE Oracle Database 12c PL SQL Programming explains how to retrieve and process data write PL SQL statements execute effective queries incorporate PHP and Java and work with dynamic SQL Code testing security and

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Relational Databases and Knowledge Bases Georges Gardarin, Patrick Valduriez, 1989 *Relational Databases and Knowledge Bases* is written from a systems implementation point of view No previous knowledge of relational data base technology is needed the text follows a natural progression from introductory matter such as file systems to more advances topics such as deductive databases The inclusion of knowledge bases recognizes recent developments in artificial intelligence and expert systems

Semantics in Databases Bernhard Thalheim, Leonid Libkin, 1998-02-25 This book presents a coherent survey on exciting developments in database semantics The origins of the volume date back to a workshop held in Prague Czech Republic in 1995 The nine revised full papers and surveys presented were carefully reviewed for inclusion in the book They address more traditional aspects like dealing with integrity constraints and conceptual modeling as well as new areas of databases object orientation incomplete information database transformations and other issues are investigated by applying formal semantics e g the evolving algebra semantics

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