

# Data Models

- ◆ A collection of representations for describing:
  - data, data relationships, data semantics, data constraints
- ◆ Object-based logical models
  - **Entity-Relationship (ER) model**
  - Object-oriented model
  - Semantic model
  - Functional model
- ◆ Record-based logical models
  - **Relational model (e.g. SQL/DS, DB2)**
  - Network model
  - Hierarchical Model

# Database Semantics Ds 1

**Ricardo Baeza-Yates**



## **Database Semantics Ds 1:**

**Data Semantics (DS-1)** Thomas B. Steel, R. Meersman, 1986 Hardbound Database semantics covers the area between database theory and knowledge representation as practised in artificial intelligence. The pertinence of this subject is reflected in the fact that conventional database systems are sadly lacking in capabilities making it essential that database systems are provided with some degree of understanding of the intended meaning of the data. The attempts currently being made by the information processing community to correct this deficit are presented in this volume analyzing the links between databases and knowledge representation and approaching the area for the first time from the database and conceptual schema viewpoints. Five keynote speeches by eminent experts Steel, Neuhold, Nijssen, Jardine, Kent provide the anchor points for the other contributions which span a wide spectrum of topics from the very abstract to the explicit and practical.

Specifications of Database Systems David J. Harper, Moira C. Norrie, 2013-03-09 Increasingly formal specification is being used by database researchers to describe and understand the systems they are designing and implementing. Similarly those working on formal specification techniques have recognised that the database field provides a rich context for developing their ideas. However as experts in one field often have a relatively limited knowledge of the other there is a growing need for discussion about the relationship between these two fields and how they can be usefully combined. This volume contains the 16 papers which were presented at the International Workshop on Specification on Database Systems held in Glasgow 3-5 July 1991. The purpose of the workshop was to bring together these fields and to examine through a series of invited talks, presentations and working groups the role that formal specification can play in developing database systems. The papers describe current research into topics such as the formal specification of data models, query languages and transaction handling and the use of formal specification techniques to understand problems which arise in database systems. The working groups which are summarised at the end of the volume covered a variety of issues including the role of graphical notations in database specification, the use of specification techniques in enabling open or extensible database systems and the education of the database community in specification techniques. This volume will be invaluable to the increasing number of researchers who are using both database systems and formal specification techniques in their work and who wish to gain a more detailed knowledge of these two fields and the issues which affect them.

**Database Semantics** Zahir Tari, Scott Stevens, 1998-12-31 Database Semantics: Semantic Issues in Multimedia Systems reflects the state of the art of emerging research on the meaning of multimedia information as presented during IFIP's Eighth Data Semantics Working Conference DS-8 organized by its Working Group 2.6 on Databases and held at Rotorua, New Zealand in January 1999. DS-8 was planned as an active forum for researchers and practitioners focusing on those issues that involve the semantics of the information represented, stored and manipulated by multimedia systems. Depending on the topic and state of research issues may be covered either deeply theoretically or quite practically or even both. These proceedings contain twenty-one papers carefully

selected by an International Programme Committee and organized in six thematic areas Video Data Modelling and Use Image Databases Applications of Multimedia Systems Multimedia Modeling in General Multimedia Information Retrieval Semantics and Metadata For almost every area important topics and issues include data modeling and query languages for media such as audio video and images methodological aspects of multimedia database design intelligent multimedia information retrieval knowledge discovery and data mining in multimedia information multimedia user interfaces Three visionary keynote addresses by famous experts Ramesh Jain Hermann Maurer and Masao Sakauchi set the stage for discussion and future directions for the field The collection of papers that resulted now offers a glimpse of the excitement and enthusiasm from DS 8 Database Semantics Semantic Issues in Multimedia Systems is suitable as a secondary text for a graduate level course on database systems multimedia systems or information retrieval systems and as a reference for practitioners and researchers in industry

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

*Empirical Foundations of Information and Software Science V* Pranas Zunde, D. Hocking, 2012-12-06 This is the proceedings of the Sixth Symposium on Empirical Foundations of Information and Software Sciences EFISS which was held in Atlanta Georgia on October 19 21 1988 The purpose of the symposia is to explore subjects and methods of scientific inquiry which are of common interest to information and software sciences and to identify

directions of research that would benefit from the mutual interaction of these two disciplines The main theme of the sixth symposium was modeling in information and software engineering with emphasis on methods and tools of modeling The symposium covered topics such as models of individual and organizational users of information systems methods of selecting appropriate types of models for a given type of users and a given type of tasks deriving models from records of system usage modeling system evolution constructing user and task models for adaptive systems and models of system architectures This symposium was sponsored by the School of Information and Computer Science of the Georgia Institute of Technology and by the U S Army Institute for Research in Management Information Communications and Computer Sciences AIRMICS 17le

Editors vii CONTENTS 1 I KEYNOTE ADDRESS      **Semantics of a Networked World. Semantics for Grid Databases**

Mokrane Bouzeghoub, 2004-10-15 This book constitutes the thoroughly refereed post proceedings of the First International Conference on Semantics of a Networked World Semantics for Grid Databases ICSNW 2004 held in Paris France in June 2004 The 16 revised full papers presented together with 2 invited papers and 7 posters were carefully reviewed and selected from close to 50 submissions The papers are organized in topical sections on semantic data integration peer to peer systems semantics for scientific applications interoperability and mediation and global services and schemas      *Integrated*

*Management of Technical Documentation* Jirka Hoppe, 2012-12-06 Writing documentation is an integral part of any technical product development A significant amount of time is spent describing the product functionality giving insights into technical details providing maintenance instructions specifying marketing information writing user manuals etc As the creation of such documentation is generally a source of higher production costs many large companies are realising the need to increase the efficiency of documentation handling Simple documents consisting of only a few pages can be developed on simple systems Basic components of such systems are an editor handling text and graphics file storage and a printer Such configurations however are not sufficient to handle professional documentation as produced by larger companies Detailed studies of technical documentation requirements have revealed that in particular the following functionality is not usually provided by such simple documentation systems Technical documentation is often very large documents having hundreds or even thousands of pages are not exceptional Due to size and complexity technical documentation is developed most often by a team of authors A system for technical documentation has to provide functionality supporting the organisation of a group of authors Technical documentation usually consists of many different documents combined into one large documentation for a particular product The optimum organisation of the storage and retrieval of documents is crucial for the performance and acceptability of the system The functionality offered by normal file systems is not adequate to organise complex systems

**Information Systems Development and Data Modeling** Rudy Hirschheim, Heinz K. Klein, Kalle Lyytinen, 1995-10-27 Information systems development is not merely a technical intervention but involves social and ethical dilemmas that affect the human social and organizational domains To demonstrate this point the authors conduct a thorough and substantive

description and analysis of the conceptual and philosophical underpinnings of systems development In particular they analyse a number of systems development methodologies including structured methods prototyping ETHICS and Soft Systems Methodology to reveal the underlying conceptual and philosophical foundations The book provides an in depth analysis of data modelling theory and its links with theories of language and cognition It offers a framework to describe and analyse different systems development approaches and to explain their strengths and weaknesses The book is aimed at graduate students taking courses in information systems and data modelling but will also appeal to information systems managers and professionals for whom the summary of methodologies will be useful Data and Knowledge (DS-2) R.

Meersman,A. C. Sernadas,1988 **Compositional Data Objects - The IMC/IMCL Reference Manual** Reiner

Durchholz,Gernot Richter,1992 Presents the formal definition of IMC along with a rigorous description of IMCL a non procedural term oriented language for specifying arbitrarily nested and interrelated information structures Discusses the complete conceptual framework for compositional information modeling together with a set of graphical symbols and syntactic rules for a conspicuous yet exact representation of compositional structure **Computer Science 2** Ricardo

Baeza-Yates,2013-06-29 **Entity-relationship Approach to Database Design and Querying** Frederick H.

Lochovsky,1990 Twenty three high quality papers were solicited for this book dealing with both the principles and pragmatics of using the entity relationship approach in research and business Two broad topics are covered database design and database querying The book reflects the trends in recent years of extending the modeling power of the ER model and of incorporating knowledge based techniques into design tools for and implementations of ER based systems **Proceedings**

**of the Thirteenth International Conference on Very Large Data Bases** P. Hammersley,1987 *THE ORAC MODEL: A LAYERED VIEW OF DATA ABSTRACTIONS*. GUANGPING WEI,1992 objects and between relationships and attribute

functions **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 **Temporal Aspects in**

**Information Systems** Colette Rolland, F. Bodart, Michel Léonard, 1988      *Database Modeling & Design* Toby J. Teorey, 1994  
Toby J Teorey      **Domain Knowledge for Interactive System Design** Alistair G. Sutcliffe, David Benyon, Frans van  
Assche, 1996-05-31 This book describes how domain knowledge can be used in the design of interactive systems It includes  
discussion of the theories and models of domain generic domain architectures and construction of system components for  
specific domains It draws on research experience from the Information Systems Software Engineering and Human Computer  
Interaction communities      **Proceedings, Very Large Data Bases** , 1987      **Cumulative Book Index** , 1998 A world list  
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