

# The Multidimensional **DATA MODELING** *Toolkit*

Making Your Business  
Intelligence Applications Smart  
with Oracle OLAP



JOHN PAREDES

# The Multidimensional Data Modeling Toolkit

**Abdelkader Hameurlain, Rosine  
Cicchetti, Roland Traunmüller**



## **The Multidimensional Data Modeling Toolkit:**

**The Multidimensional Data Modeling Toolkit** John Paredes, 2009 The Multi dimensional Data Modeling Toolkit represents over 15 years of hands on experience developing multidimensional analytic applications for over a dozen companies in a variety of application areas Written in a tutorial style this book gives in plain English a step by step development of the defining principles of OLAP analysis through the lens of the programming language at the heart of Oracle s OLAP database option You will find this book packed with examples tricks and techniques concrete illustrations of the programming elements needed to implement The basics will all be there as well as advanced techniques that you can use to address the most demanding requirements OLAP will be addressed as an analysis platform You will learn how to make business intelligence applications smarter by upping the analytical octane You will learn both the classic applications of OLAP analysis as well as more exotic approaches You will learn where OLAP fits in among other analytical approaches such as statistics and data mining So whether you are a developer wanting to learn Oracle s counterpart to Microsoft s MDX or an analyst wanting to understand the quantitative possibilities of OLAP The Multi dimensional Data Modeling Toolkit will show you what you need to know to go from beginner to expert in the application of OLAP analytics with Oracle OLAP DML

*The Data Warehouse Toolkit* Ralph Kimball, 1996-02-16 one of the definitive books of our industry If you take the time to read only one professional book make it this book W H Inmon One of the most dramatic new developments in database design the dimensional data warehouse is a powerful database model that significantly enhances managers ability to quickly analyze large multidimensional data sets Written by the leading proponent of this revolutionary new approach this valuable book CD toolkit outfits you with all the nuts and bolts information you need to design build manage and use dimensional data warehouses for virtually any type of business application as well as software for querying dimensional data warehouses Employing many real life case studies of data warehouses Ralph Kimball provides clear cut guidelines on how to model data and design data warehouses to support advanced multidimensional decision support systems Beginning with the relatively simple example of a data warehouse for a grocery store he progresses step by step through an increasingly complex array of business applications in retail manufacturing banking insurance subscriptions and airline reservations By the end of the book you will have mastered the full range of powerful techniques for creating controlling and navigating dimensional business databases that are easy to understand and navigate On the CD ROM you ll find Software for querying dimensional data warehouses Working models of all the databases described in the book

*Advanced Distributed Systems* Felix F. Ramos, 2005-09-15 This book constitutes the thoroughly refereed post proceedings of the Fifth International School and Symposium on Advanced Distributed Systems ISSADS 2005 held in Guadalajara Mexico in January 2005 The 50 revised full papers presented were carefully reviewed and selected from over 100 submissions The papers are organized in topical sections on database systems distributed and parallel algorithms real time distributed systems cooperative information

systems fault tolerance information retrieval modeling and simulation wireless networks and mobile computing artificial life and multi agent systems

**Database and Expert Systems Applications** Abdelkader Hameurlain, Rosine Cicchetti, Roland Traunmüller, 2003-08-02

th 2002 DEXA the 13 International Conference on Database and Expert Systems Applications was held on September 2 6 2002 at the Universit Aix Marseille II France The quickly growing field of information systems required the establishment of more specialized discussion platforms the DaWaK conference EC Web conference eGOV conference and DEXA workshops and there were held in parallel with DEXA also in Aix en Provence The resulting book was prepared with great effort Starting with the preparation of submitted papers the papers went through the reviewing process The accepted papers were revised to final versions by their authors and arranged to the conference program This year 241 papers were submitted and our thanks go to all who have contributed The program committee and the supporting reviewers produced altogether about 730 referee reports on average three reports per paper and selected 89 papers for presentation The papers presented here encompass the extensive domain of databases together with the other conferences and workshops of the DEXA event cluster a vast part of applied computer science was covered In this way DEXA has blazed the trail At this point we would like to acknowledge to all institutions which actively supported this conference and made it possible These are IUT Universit Aix Marseille II FAW DEXA Association the Austrian Computer Society and Microsoft Research

Journal on Data Semantics XIII Il-Yeol Song, 2010-01-18 The LNCS Journal on Data Semantics is devoted to the presentation of notable work that in one way or another addresses research and development on issues related to data semantics The scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge The journal addresses researchers and advanced practitioners working on the semantic web interoperability mobile information services data warehousing knowledge representation and reasoning conceptual database modeling ontologies and artificial intelligence Volume XIII constitutes a special issue on semantic data warehouses The papers in this volume address several topics within this relatively new domain providing different insights into the multiple benefits that can be gained by envisioning data warehouses from a semantic perspective These papers broach many new ideas to be addressed in future work

**Conceptual Modeling - ER 2001** Hideko S. Kunii, Sushil Jajodia, Arne Soelvsberg, 2003-06-30 This book constitutes the refereed proceedings of the 20th International Conference on Conceptual Modeling ER 2001 held in Tokohama Japan in November 2001 The 45 revised full papers presented together with three keynote presentations were carefully reviewed and selected from a total of 197 submissions The papers are organized in topical sections on spatial databases spatio temporal databases XML information modeling database design data integration data warehouse UML conceptual models systems design method reengineering and video databases workflows web information systems applications and software engineering

Oracle Essbase & Oracle OLAP Michael Schrader, Dan Vlamis, Mike Nader, Chris Claterbos, Dave Collins, Mitch Campbell, Floyd Conrad, 2009-12-15 The only book to cover and

compare Oracle's online analytic processing products With the acquisition of Hyperion Systems in 2007 Oracle finds itself owning the two most capable OLAP products on the market Essbase and the OLAP Option to the Oracle Database Written by the most knowledgeable experts on both Essbase and Oracle OLAP this Oracle Press guide explains how these products are similar and how they differ Oracle Essbase Oracle OLAP will help you architect the Oracle OLAP product that is most appropriate for your application and build tune and maintain OLAP solutions *Database and Expert Systems Applications*, 2002 Conceptual Modeling--ER ..., 2004 **Proceedings of the 1999 ACM SIGMOD International Conference on Management of Data** Alex Delis, Christos Faloutsos, Shahram Ghandeharizadeh, 1999 1999 International Symposium on Database Applications in Non-Traditional Environments (DANTE '99) Y. Kambayashi, Hiroki Takakura, 2000 Annotation This collection of 60 papers presented at the November 1999 symposium provides research results on non traditional databases such as Internet related technologies handling of various kinds of data supporting technologies for virtual organization data models system technologies and applications Topics include temporal issues in data warehouse systems a semantic caching method based on linear constraints multimedia document support inside the AHYDS platform interacting with topological invariants of spatial databases spatio temporal levels of detail LoD for browsing video databases and similarity retrieval of human motion as multi stream time series data No subject index Annotation copyrighted by Book News Inc Portland OR

**DOLAP ...**, 2005 *Microsoft SQL Server 2000 Data Transformation Services* Timothy Peterson, 2001 Microsoft SQL Server 2000 Data Transformation Services covers all facets in the development of data transformations with DTS The reader will learn how to create each of the DTS tasks both in the User Interface supplied with SQL Server and through the object model using Visual Basic or VBScript Microsoft SQL Server 2000 Data Transformation Services is filled with numerous small examples showing how each of the capabilities of DTS can be used It also includes a number of Data Transformation Templates which can be used by the readers to help develop their own packages **Mastering Data Warehouse Design** Claudia Imhoff, Nicholas Gallempo, Jonathan G. Geiger, 2003 A cutting edge response to Ralph Kimball's challenge to the data warehouse community that answers some tough questions about the effectiveness of the relational approach to data warehousing Written by one of the best known exponents of the Bill Inmon approach to data warehousing Addresses head on the tough issues raised by Kimball and explains how to choose the best modeling technique for solving common data warehouse design problems Weighs the pros and cons of relational vs dimensional modeling techniques Focuses on tough modeling problems including creating and maintaining keys and modeling calendars hierarchies transactions and data quality **Data Warehousing and Mining** John Wang, 2008 This collection offers tools designs and outcomes of the utilization of data mining and warehousing technologies such as algorithms concept lattices multidimensional data and online analytical processing With more than 300 chapters contributed by over 575 experts from around the globe this authoritative collection will provide libraries with the essential reference on data mining and warehousing Provided by publisher

Proceedings of the Twenty-First ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems ,2002  
Journal of Database Administration ,2005      *Advances in Information Systems* ,2004      Advanced Topics in Database Research Keng Siau,2005 Advanced Topics in Database Research is a series of books in the fields of database software engineering and systems analysis and design They feature the latest research ideas and topics on how to enhance current database systems improve information storage refine existing database models and develop advanced applications Advanced Topics in Database Research Volume 4 is a part of this series Advanced Topics in Database Research Volume 4 is enriched with authors who have submitted their best works for inclusion in this scholarly book Advanced Topics in Database Research Volume 4 is a useful reference and a valuable collection for both researchers and practitioners      **Data Sources** ,2000

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