

# Introduction to Object-Relational Database Development

## Overview

This book describes the Object-Relational Database Management Systems (ORDBMS) technology implemented in the INFORMIX Dynamic Server (IDS) product, and explains how to use it. This first chapter introduces the basic ideas behind object-relational, or extensible, DBMSs. It is intended as a road map to guide readers in their own exploration of the material.

We begin with a little historical background explaining the motivation behind an ORDBMS product such as IDS. At this early stage of the book, it is enough to say that ORDBMS technology significantly changes the way you should think about using a database. In contrast with the more byte-oriented Relational DataBase Management System (RDBMS) technology, an object-relational database organizes the data and behavior of business objects within an abstract data model. Object-Relational query statements deal with objects personal name, part, code, polygon and video, instead of INTEGER, VARCHAR or DECIMAL data values.

# <u>Introduction To Object Relational Database</u> <u>Development</u>

**Lynne Dunckley** 

## **Introduction To Object Relational Database Development:**

Object-relational Database Development Paul Brown, 2001 This text provides a detailed description of OR Object Relational database management systems and how to use this technology to build modern information systems

Fundamentals of Object Databases Suzanne Dietrich, Susan Urban, 2022-05-31 Object oriented databases were originally developed as an alternative to relational database technology for the representation storage and access of non traditional data forms that were increasingly found in advanced applications of database technology After much debate regarding object oriented versus relational database technology object oriented extensions were eventually incorporated into relational technology to create object relational databases Both object oriented databases and object relational databases collectively known as object databases provide inherent support for object features such as object identity classes inheritance hierarchies and associations between classes using object references. This monograph presents the fundamentals of object databases with a specific focus on conceptual modeling of object database designs After an introduction to the fundamental concepts of object oriented data the monograph provides a review of object oriented conceptual modeling techniques using side by side Enhanced Entity Relationship diagrams and Unified Modeling Language conceptual class diagrams that feature class hierarchies with specialization constraints and object associations These object oriented conceptual models provide the basis for introducing case studies that illustrate the use of object features within the design of object oriented and object relational databases For the object oriented database perspective the Object Data Management Group data definition language provides a portable language independent specification of an object schema together with an SQL like object query language LINO Language INtegrated Ouery is presented as a case study of an object guery language together with its use in the db4o open source object oriented database For the object relational perspective the object relational features of the SQL standard are presented together with an accompanying case study of the object relational features of Oracle For completeness of coverage an appendix provides a mapping of object oriented conceptual designs to the relational model and its associated constraints Table of Contents List of Figures List of Tables Introduction to Object Databases Object Oriented Databases Object Relational Databases Introduction to Object-oriented Databases Won Kim, 1990 Introduction to Object Oriented Databases provides the first unified and coherent presentation of the essential concepts and techniques of object oriented databases It consolidates the results of research and development in the semantics and implementation of a full spectrum of database facilities for object oriented systems including data model guery authorization schema evolution storage structures query optimization transaction management versions composite objects and integration of a programming language and a database system The book draws on the author's Orion project at MCC currently the most advanced object oriented database system and places this work in a larger context by using relational database systems and other object oriented systems for comparison Won Kim is Director of the Object Oriented and Distributed Systems Laboratory at

Microelectronics and Computer Technology Corporation MCC in Austin Texas Contents Introduction Data Model Basic Interface Relationships with Non Object Oriented Databases Schema Modification Model of Queries Query Language Authorization Storage Structures Query Processing Transaction Management Semantic Extensions Integrating Object Oriented Programming and Databases Architecture Survey of Object Oriented Database Systems Directions for Future Research and Development EngOpt 2018 Proceedings of the 6th International Conference on Engineering Optimization H.C. Rodrigues, J. Herskovits, C.M. Mota Soares, A.L. Araújo, J.M. Guedes, J.O. Folgado, F. Moleiro, J. F. A. Madeira, 2018-09-13 The papers in this volume focus on the following topics design optimization and inverse problems numerical optimization techniques efficient analysis and reanalysis techniques sensitivity analysis and industrial applications The conference EngOpt brings together engineers applied mathematicians and computer scientists working on research development and practical application of optimization methods in all engineering disciplines and applied sciences Oracle **Database Management** Mr. Rohit Manglik, 2024-03-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students Succeeding with Object Databases Akmal B. Chaudhri, Roberto Zicari, 2001 Take a across various streams and levels tour with leading researchers and developers for a practical look at object databases Whether you currently work with or are thinking of moving to object databases Chaudhri and Zicari provide a collection of real world case studies and examples that demonstrate how some of the world's leading companies and research institutions are leveraging Java XML and Object Relational Systems to build robust databases Starting with a comprehensive introduction to object and object relational databases the book then offers detailed discussions on some of the latest topics in the field such as JDBC and SQLJ support in relational databases and database modeling using UML You ll also learn about object to relational mapping tools architectural issues that influence performance and the issues of complexity and scale How popular tools from Computer Associates eXcelon GemStone Objectivity Oracle Versant and Poet were used in the case studies is also discussed The companion Web site atwww wiley com compbooks chaudhri includes links to object oriented database software applications and additional resources Visit our Web site at www wiley com compbooks Visit the companion Web site at www wiley com Object Data Management Roderic Geoffrey Galton Cattell, 1994 This revised introduction to compbooks chaudhri object oriented and extended relational database systems incorporates significant developments in the field since its first edition An expanded section describes currently available products A new chapter covers the recently completed ODMG 93 **Encyclopedia of Database** standard whose committee was chaired by the author and progress on the SQL3 standard Technologies and Applications Rivero, Laura C., Doorn, Jorge Horacio, Ferraggine, Viviana E., 2005-06-30 Addresses the evolution of database management technologies and applications along with the progress and endeavors of new research

areas P xiii Relational Database Design Clearly Explained Jan L. Harrington, 2002-04-23 Fully revised and updated Relational Database Design Second Edition is the most lucid and effective introduction to relational database design available Here you ll find the conceptual and practical information you need to develop a design that ensures data accuracy and user satisfaction while optimizing performance regardless of your experience level or choice of DBMS Supporting the book s step by step instruction are three case studies illustrating the planning analysis and design steps involved in arriving at a sound design These real world examples include object relational design techniques which are addressed in greater detail in a new chapter devoted entirely to this timely subject Concepts you need to master to put the book s practical instruction to work Methods for tailoring your design to the environment in which the database will run and the uses to which it will be put Design approaches that ensure data accuracy and consistency Examples of how design can inhibit or boost database application performance Object relational design techniques benefits and examples Instructions on how to choose and use a normalization technique Guidelines for understanding and applying Codd s rules Tools to implement a relational design using SQL Techniques for using CASE tools for database design Java Server Programming Java EE 5 (J2EE 1.5) Black Book (Platinum Edition) w/CD Kogent Solutions Inc., 2008-07 Many bookstores offer numerous choices of books on Java Server Programming however most of these books are intricate and complex to grasp So what are your chances of picking up the right one If this question has been troubling you be rest assured now This book Java Server Programming Java EE 5 J2EE 1 5 Black Book Platinum Edition is a one time reference book that covers all aspects of Java EE in an easy to understand approach for example how an application server runs how GlassFish Application server deploys a Java application a complete know how of design patterns best practices and design strategies working with Java related technologies such as NetBeans IDE 6 0 Hibernate Spring and Seam frameworks and proven solutions using the key Java EE technologies such as JDBC Servlets JSP JSTL RMI JNDI JavaMail Web services JCA Struts JSF UML and much more All this as the book explores these concepts with appropriate examples and executable applications no doubt every aspect of the book is worth its price

Proceedings of the 1997 ACM SIGMOD International Conference on Management of Data Joan M Peckman, Joan M.

Peckman, 1997 Multimedia Databases Lynne Dunckley, 2003 This book brings together coverage of SQL multimedia metadata image processing computer vision networks and database management. It provides an understanding of multimedia data and database technology and explains why advances in both have come together to create the field of multimedia databases. Exercises and solutions are included Dunckley teaches information technology at Thames Valley University. Annotation c 2003 Book News Inc Portland OR booknews com Object Magazine, 1997 Foundation for Object/relational Databases. C. J. Date, Hugh Darwen, 1998 This book provides of a precise formal definition of an abstract model of data to be considered as a blueprint for the design of a DBMS and database language. In particular it provides a rock solid foundation for integrating relational and object technologies a foundation conspicuously lacking in current.

approaches to such integration The book is arranged into four parts plus appendixes I Preliminaries Background and overview objects and relations II Formal Specifications The Manifesto proper a new relational algebra and a language called Tutorial D a concrete realization of the ideas of the Manifesto III Informal Discussions and Explanations A careful point by point examination and exposition of the Manifesto with copious examples in Tutorial D IV Subtyping and Inheritance A detailed and comprehensive proposal for a model of type inheritance also with numerous examples Appendixes Annotated references and bibliography comparisons with SQL3 and ODMG database design considerations and many other topics

Challenges of Information Technology Management in the 21st Century Information Resources Management Association. International Conference, 2000 As the 21st century begins we are faced with opportunities and challenges of available technology as well as pressured to create strategic and tactical plans for future technology Worldwide IT professionals are sharing and trading concepts and ideas for effective IT management and this co operation is what leads to solid IT management practices This volume is a collection of papers that present IT management perspectives from professionals around the world The papers seek to offer new ideas refine old ones and pose interesting scenarios to help the reader develop company sensitive management strategies Oracle8 Bible Carol McCullough-Dieter, Jatinder Prem, Ramesh Chandak, Purshottam Chandak, 1998-06-11 The Oracle8 Bible is a comprehensive guide to the Oracle8 Enterprise Package It supplies in depth coverage of the latest Oracle8 tools as well as various commands and techniques for effectively managing and delivering large amounts of data with Oracle8 Using step by step instructions and plenty of samples author Carol McCullough Dieter explains important topics such as Object relational database design data backup and recovery auditing and partitioning Part introductory tour part reference guide the Oracle8 Bible is an essential resource for novice Oracle developers and veteran database administrators alike The CD ROM includes all the samples and SQL code in the book as well as a fully searchable version of Oracle8 Bible Object-oriented Database Design Ken S. Brathwaite, 1993 This book presents the basic concepts of object oriented database design It discusses several techniques for developing databases and object oriented programming OOP using C and EIFFEL The book also provides a definition for the field of object oriented database design explaining the concept of OOP and surveying the available products *Proceedings of the 1995 ACM* SIGMOD International Conference on Management of Data Michael Carey,1995 **Managing Information Technology** Resources in Organizations in the Next Millennium Information Resources Management Association. International Conference, 1999-01-01 Managing Information Technology Resources in Organizations in the Next Millennium contains more than 200 unique perspectives on numerous timely issues of managing information technology in organizations around the world This book featuring the latest research and applied IT practices is a valuable source in support of teaching and research agendas Object Databases Barry Eaglestone, Mick Ridley, 1998 This text uses the ODMG model making it applicable to users of many object database systems The material is presented in an accessible way avoiding mathematical

notations and includes many realistic and familiar illustrations and examples

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