

# Introduction to Object-Relational Database Development

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## Overview

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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.

# Introduction To Object Relational Database Development

**Padhraic Smyth**



## **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 **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 *Succeeding with Object Databases* Akmal B. Chaudhri,Roberto Zicari,2001 Take a 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 at [www.wiley.com/compbooks/chaudhri](http://www.wiley.com/compbooks/chaudhri) includes links to object oriented database software applications and additional resources Visit our Web site at [www.wiley.com/compbooks](http://www.wiley.com/compbooks) Visit the companion Web site at [www.wiley.com/compbooks/chaudhri](http://www.wiley.com/compbooks/chaudhri) Encyclopedia of Database 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 *SQL All-in-One For Dummies* Allen G. Taylor,2011-03-10 The soup to nuts guide on all things SQL SQL or structured query language is the international standard language for creating and maintaining relational databases It is the basis of all major databases in use today and is essential for the storage and retrieval of database information This fun and friendly guide takes SQL and all its related topics and breaks it down into easily digestible pieces for you to understand You ll get the goods on relational database design development and maintenance enabling you to start working with SQL right away Provides an overview of the SQL language and examines how it is integral for the storage and retrieval of database information Includes updates to SQL standards as well as any new features Explores SQL concepts relational database development SQL queries data security database tuning and more Addresses the relationship between SQL and programming as well as SQL and XML If you re looking for an up to

date sequel to the bestselling first edition of SQL All in One For Dummies then this is the book for you 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

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

**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 *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

Proceedings of the 1995 ACM SIGMOD International Conference on Management of Data Michael Carey,1995

**Handbook of Research on Innovations in Database Technologies and Applications** Viviana E. Ferraggine,Jorge H. Doorn,Laura C. Rivero,2009-01-01 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher **Encyclopedia of Information Systems: A-D** ,2003 **Very Large Data Bases** ,1997 **Proceedings of the Twenty-third International Conference on Very Large Data Bases, Athens, Greece, 26-29 August 1997** Matthias Jarke,1997 Oracle8i SQLJ Programming Nirva Morisseau-Leroy,Martin K. Solomon,Gerald P. Momplaisir,1999-11-05 Oracle8i SQLJ Programming explains in detail how to implement SQLJ the new standard for embedding static SQL directly into Java programs With SQLJ you ll use less code and get enhanced portability compile time checking and so much more This authoritative guide shows the reader how to create cross platform distributed and Web enabled applications designed specifically for Oracle8i the revolutionary new database complete with seamless Java integration The book includes step by step details on using SQLJ in the Oracle8i environment and real world case studies demonstrating SQLJ s practical applications *Journal of Object-oriented Programming* ,2000

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