

Object - Oriented Database

Object-Oriented
Programming

Polymorphism

Inheritance

Encapsulation



Relational
Database

Integrity

Concurrency

Query Processing

Objects And Databases

Ez Nahouraii, Fred Petry



Objects And Databases:

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 LINQ Language INtegrated Query is presented as a case study of an object query 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

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

Objects and Databases Petr Kroha, 1993 Written for applications programmers software systems developers and designers new to object technology this book presents the major features of object oriented database systems addressing common problems and the latest solutions It explains in detail how database technology can make use of fundamental object oriented concepts such as data abstraction encapsulation inheritance and polymorphism

The Object Database Handbook Douglas K. Barry, 1996-05-21 The first complete hands on guide to choosing implementing and managing the right object oriented database for your organization If you are responsible for selecting and implementing an object oriented database in your organization you need a tool to help you evaluate your options and make the right selection And now here it is The Object Database Handbook the first complete

hands on guide for anyone planning a move to object oriented database technology Doug Barry Databases columnist with Object Magazine provides you with a rational systematic approach to selecting implementing and managing the object oriented database products best suited to your company s unique computing needs The book covers all the bases providing clear step by step guidance on how to Match your organization s computing needs against available products Form a selection team Implement your database solutions so they work right the first time Prototype your system Design or convert data to the new database Rework an existing relational model into an object model Also the book provides dozens of valuable checklists that make it easy to identify your needs and match them with the right choices And several full scale case studies are developed throughout the book that help you arrive quickly at a practical understanding of the concepts discussed

Object-oriented Databases Bindu Rama Rao,1994 Object oriented paradigm Object oriented methodologies Relational databases and OODBMS The goals of OODBMSs OODB features Persistence Object identity OODB Architectures Objectstore Objectivity DB Versant Evaluation of OODBMSs Research in OODB *Object Databases* Mary E. S. Loomis,1994 This volume conveys the important facts and concepts business professionals need in order to understand the role of object databases in today s rapidly evolving computing environments Covering all aspects of the essentials of object database technology without requiring advanced technical knowledge this book makes an excellent introductory reference for database experts and non experts alike *Moving Objects Databases* Ralf Hartmut Güting,Markus Schneider,2005-08-23 First uniform treatment of moving objects databases the technology that supports GPS and RFID data analysis

Object-oriented Databases John G. Hughes,1991 A comprehensive introduction to object oriented concepts as applied to databases and knowledge based systems The principles of semantic data modelling are described in depth and this is followed by a comprehensive description of the application of object oriented techniques in this area Separate chapters are devoted to implementation aspects such as persistence and concurrency **Object-Oriented Database System** Hiroshi Ishikawa,2012-12-06 Computer Science Workbench is a monograph series which will provide you with an in depth working knowledge of current developments in computer technology Every volume in this series will deal with a topic of importance in computer science and elaborate on how you yourself can build systems related to the main theme You will be able to develop a variety of systems including computer software tools computer graphics computer animation database management systems and computer aided design and manufacturing systems Computer Science Workbench represents an important new contribution in the field of practical computer technology Tosiyasu L Kunii Preface The goal of this book is to give concrete answers to questions such as what object oriented databases are why they are needed how they are implemented and how they are applied by describing a research prototype object oriented database system called Jasmine That is this book is aimed at creating a consistent view to object oriented databases The contents of this book are directly based on the results of the Jasmine project conducted at Fujitsu Laboratories Ltd The book is a polished version of my

doctoral dissertation which includes research papers which I have authored and published Object-oriented Concepts, Databases and Applications Won Kim, Frederick H. Lochovsky, 1989 *Index Data Structures in Object-Oriented Databases* Thomas A Mueck, Martin L Polaschek, 1997-08-01 **Object-oriented Databases** Ez Nahouraii, Fred Petry, 1991 This reprint collection consists of articles on object oriented databases and provides a broad overview of current concepts examples and applications The volume contains an introduction to the subject and papers organized into four sections basic concepts applications design and implementation **Object-oriented Modeling and Design for Database Applications** Michael Blaha, William Premerlani, 1998 Written from a software engineering perspective this book shows programmers developers how to build object oriented database applications for distributed client server environments using the newest update of the OMT methodology UML **Upgrading Relational Databases with Objects** Robert Vermeulen, 1997-12-13 Upgrading Relational Databases with Objects presents a clear headed overview of how to use object oriented OO technology to improve existing relational databases This practical how to guide starts with the basics of OO and works its way up to examples and what if scenarios that illustrate how OO technology is should be and should not be integrated with relational databases It draws a keen distinction between applications that can be best performed with each technology The book describes such object technologies as OLE and CORBA and what their impacts will be on relational database connectivity and provides a brief tutorial on relational and object concepts it then moves on to advanced object relational SQL3 OO database technology and the Internet *Java Data Objects* David Jordan, Craig Russell, 2003-04-22 This is a definitive guide to JDO API It provides a thorough introduction to JDO Java Data Objects starting with a simple application that demonstrates many of JDO s capabilities It shows the reader how to make classes persistent how to configure JDO at runtime how to make queries and more **Objects and Databases** Alan Dearle, Roberto V. Zicari, 2010-09-27 This book constitutes the thoroughly refereed conference proceedings of the Third International Conference on Object Databases ICOODB 2010 held in Frankfurt Main Germany in September 2010 The 10 revised full papers presented together with 4 keynote papers were carefully reviewed and selected from numerous submissions These papers address a wide range of issues related to object databases including topics such as linkage to service platforms operation within scalable cloud platforms object relational bindings NoSQL databases and new approaches to concurrency control *Introduction to Object-Oriented Databases* Won Kim, 2008-07 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 query 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

The Object Database Standard Roderic Geoffrey Galton Cattell, Douglas K. Barry, 1997 A major revision of the standard for object database management systems ODBMSs this book represents an important industry consensus on component technology for database products and languages enabling wide acceptance and adoption of object database technology This revision adds coverage of Java bindings to the updated material on C and SmallTalk

Object-Oriented Databases Setrag Khoshafian, 1993-05-10 This book thoroughly explains object oriented concepts such as abstract data typing inheritance and others Surveys all existing and emerging database models including relational complex object and intelligent databases Offers real world examples drawn from actual products and practical prototypes

Object-oriented Databases with Applications to CASE, Networks, and VLSI CAD Rajiv Gupta, Ellis Horowitz, 1991 Object oriented has become one of the important buzzwords in computer science but as yet there is no clear consensus on what is object oriented programming This book addresses the concepts behind the buzzword and has four goals The first is to provide the reader with a perspective on concepts that have been in development in a diverse set of fields including artificial intelligence database theory programming languages and compiler theory which form the core of the object paradigm Second the text presents an overview of object oriented databases examples of their use and a comparison of strengths and weaknesses Third real world examples are shown to illustrate how they are mapped onto an object oriented framework Finally the programming language C has been adopted by programmers of object oriented databases so there is an overview of its power and limitations and two different approaches to making a database out of C are examined

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