

# OBJECT-ORIENTED DATABASE



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In an object-oriented database, data is organized and stored as objects, which are self-contained units that contain both data and the operations or methods that can be performed on that data.

# On Objectoriented Data Base Systems

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## **On Objectoriented Data Base Systems:**

On Object-Oriented Database Systems Klaus R. Dittrich, Umeshwar Dayal, Alejandro P. Buchmann, 2012-12-06 Object oriented database systems have been approached with mainly two major intentions in mind namely to better support new application areas including CAD CAM office automation knowledge engineering and to overcome the impedance mismatch between data models and programming languages This volume gives a comprehensive overview of developments in this flourishing area of current database research Data model and language aspects interface and database design issues architectural and implementation questions are covered Although based on a series of workshops the contents of this book has been carefully edited to reflect the current state of international research in object oriented database design and implementation

OBJECT-ORIENTED DATABASE SYSTEMS : APPROACHES AND ARCHITECTURES PRABHU, C.S.R., 2010-11 This well received book now in its third edition is a comprehensive presentation of the fundamentals of object oriented database systems OODBMS It provides extensive coverage of the different approaches to object data management including the three major approaches semantic database systems approach object oriented programming language extension approach and the relational extension approach as well as the various types of architectures of object oriented database systems The book discusses all recent developments in this field such as the emergence of Java as the dominant object oriented programming language resulting in upcoming OODBMS products such as Ozone and the provision of object oriented database features in object relational database systems ORDBMS products such as Oracle 9i and DB2 The new edition provides an extensive discussion of PostgreSQL a popular open source object oriented database system which has emerged as a viable alternative to expensive commercial database systems such as Oracle The book is extensively illustrated which enables students to develop a firm grasp of the underlying concepts The chapter end exercises help in testing the students comprehension of the fundamental principles The book is primarily meant for students of IT related programmes having courses in database systems Computer professionals will also find the book immensely useful

**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 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 *Advances in Object-Oriented Database Systems* Asuman Dogac,M.Tamer Özsu,Alexandros Biliris,Timos Sellis,2013-11-09 Object oriented database management systems OODBMSs have generated significant excitement in the database community in the last decade This interest stems from a real need for data management support for what are called advanced application areas that are not well served by relational technology The case for object oriented technology has been made on three fronts First is the data modeling requirements of the new applications Some of the more important shortcomings of the relational systems in meeting the requirements of these applications include

- 1 Relational systems deal with a single object type a relation A relation is used to model different real world objects but the semantics of this association is not part of the database Furthermore the attributes of a relation may come only from simple and fixed data type domains numeric character and sometimes date types Advanced applications require explicit storage and manipulation of more abstract types e g images design documents and the ability for the users to define their own application specific types Therefore a rich type system supporting user defined abstract types is required
- 2 The relational model structures data in a relatively simple and flat manner Non traditional applications require more complex object structures with nested objects e g a vehicle object containing an engine object

**Object-oriented Database Systems** Elisa Bertino,Lorenzo Martino,1993 Object Oriented Database Systems offers a clear introduction to the concepts and features of object oriented database illustrated with several examples of current commercial systems Professional database designers and users who want a clear guide to the current state of the art will find this book a must

**Readings in Object-Oriented Database Systems** Stanley B. Zdonik,David Maier,1990 This comprehensive collection is a survey of research in object oriented databases offering a substantive overview of the field section introductions and over 40 research papers presented in their original scope and detail The balanced selection of articles presents a confluence of ideas from both the language and database research communities that have contributed to the object oriented paradigm The editors develop a general definition and model for object oriented databases and relate significant research efforts to this framework Further the collection explores the fundamental notions behind object oriented databases semantic data models implementation of object oriented systems transaction processing interfaces and related approaches Research and theory are balanced by applications to CAD systems programming environments and office information systems

*Object Data Management* Roderic Geoffrey Galton Cattell,1994 This revised introduction to 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 standard whose committee was chaired by the author and progress on the SQL3 standard

*Object Management* Roger Tagg, June Mabon, 2019-01-04 First published in 1992 this volume explores the use of object oriented methods which is forecast to grow rapidly with their flexibility and facility to overcome some of the inadequacies of relational databases This timely book reviews their potential in the data management context It examines the impact of object oriented techniques on the practice of data management including data analysis database design database administration and DBMS operation The main emphasis of the book is on practical experience of developing and applying OO methods in the most popular application areas Its four parts covering the background to object technology the products the applications and the implications

**Object-oriented Concepts, Databases and Applications** Won Kim, Frederick H. Lochovsky, 1989

*Object-Oriented Database Systems: Approaches And Architectures 2Nd Ed.* C.S.R. Prabhu, 2005-12 The emergence of Java as the dominant object oriented programming language has resulted in upcoming OODBMS products such as Ozone which are purely Java based It has also resulted in upgradation of existing OODBMS products extending their features with Java environment In the ORDBMS product line Oracle 9i and DB2 are offering considerable object oriented database features All these new developments are discussed in the Second Edition The first edition of this compact text evoked good response from the readers The new edition continues to provide a good exposure on object database systems in terms of different approaches to object data management as well as the various architectures of object database systems The three major approaches semantic database systems approach object oriented programming language extension approach and relational extension approach leading to object relational system are covered in detail Exercises have been added at the end of each chapter to sharpen the analytical abilities of the reader The book will be extremely useful to computer professionals and postgraduate students studying courses in database systems area

**Database Systems** S. K. Singh, 2009 This book is a comprehensive practical and student friendly textbook addressing fundamental concepts in database design and applications

**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 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 Building an Object-Oriented Database System Francois Bancilhon, Claude Delobel, Paris Kanellakis, 1992-06 Modern database and software system technology must respond to a wide variety of needs Advanced applications such as office automation CAD or software engineering have new requirements in design environments transaction mechanisms and data types This comprehensive volume by designers implementors and users covers all aspects of building an object oriented software system from data model through system implementation interfaces and applications Utilizing techniques from databases object oriented languages programming environments and user interfaces O2 is a landmark object oriented database system representing a new generation of database technology This guide will help researchers database designers and users to assess the nature and potential of object oriented technology for themselves **Advanced Database Systems For Integration Of Media And User Environments '98: Advanced Database Research** Yahiko Kambayashi, Akifumi Makinouchi, Yoshifumi Masunaga, Shunsuke Uemura, Katsumi Tanaka, 1998-03-31 **Database Systems For Advanced Applications '91 - Proceedings Of The 2nd International Symposium On Database Systems For Advanced Applications** Akifumi Makinouchi, 1992-09-21 This book provides an authoritative overview of the global development of surgical paediatrics Biographical accounts of key people who developed this relatively new specialty many of whom are now household names are presented The compendium also acknowledges the enormous contribution of imaging ultrasound MRI and PET scans minimal invasive surgery and fetal surgery as well as the role of related journals and associations in the progress of surgical paediatrics Many of the contributors have been instrumental to the development of surgical paediatrics in their respective countries and have considerable worldwide influence on the management of children requiring surgical care Through their valuable insight and first hand experience this book not only shines a light on the past achievements of previous generations of paediatric surgeons but also serves as a model to encourage future generations to do likewise **Modern Database Systems** Won Kim, 1995 Next generation database technology Object oriented database Technology for interoperating legacy databases The OMG object model Object SQL Database Systems for Advanced Applications '97 Rodney Topor, Katsumi Tanaka, 1997 This volume contains the proceedings of the Fifth International Conference on Database Systems for Advanced Applications DASFAA 97 DASFAA 97 focused on advanced database technologies and their applications The 55 papers in this volume cover a wide range of areas in the field of database systems and applications including the rapidly emerging areas of the Internet multimedia and document database systems and should be of great interest to all database system researchers and developers and practitioners Aspect-Oriented Database Systems Awais Rashid, 2004-01-07 Focuses on the use of Aspect Oriented Programming AOP techniques to modularise otherwise broadly scoped features in database systems like the transaction or

the versioning model to improve their customisability extensibility and maintainability

### **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

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