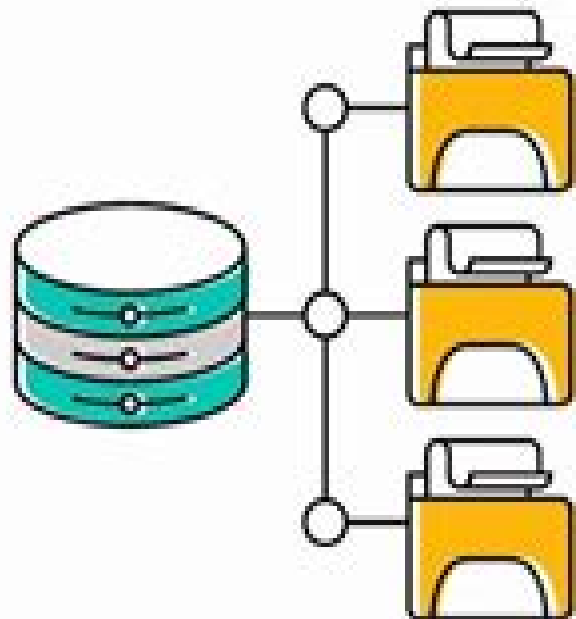


OBJECT-ORIENTED DATABASE



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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

Alan W. Brown



On Objectoriented Data Base Systems:

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

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 impendence 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 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

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 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 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 *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

Modern Database Systems Won Kim, 1995 Next generation database technology Object oriented database Technology for interoperating legacy databases The OMG object model Object

SQL 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 **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 *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

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

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

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 Analysis, Design, and Databases, 1994

Object-oriented Databases Alan W. Brown, 1991 Provides a simple concise introduction to object oriented database systems with emphasis on their use as an enabling technology for supporting large scale software development

Object-oriented Technology For Database And Software Systems V S Alagar, Rokia Missaoui, 1995-09-28 Object orientation has become a must know subject for managers researchers and software practitioners interested in the design evolution reuse and management of efficient software components The book contains technical papers reflecting both theoretical and practical contributions from researchers in the field of object oriented OO databases and software engineering systems The book identifies actual and potential areas of integration of OO and database technologies current and future research directions in software methodologies and reflections about the OO paradigm In providing current research and relevant information about this promising and rapidly growing field of object oriented databases and software engineering systems this book is invaluable to research scientists practitioners and graduate students working in the areas of databases and software engineering

Advances in Object-Oriented Database Systems Klaus R. Dittrich, 1988-09-21 This volume collects papers presented at the 2nd International Workshop on Object Oriented Database Systems ooDBS II held at the Ebernburg near Bad M nster am Stein FRG in September 1988 It thus gives a comprehensive overview of the latest developments in this flourishing area of current database research Object oriented database systems have been approached with mainly two major intentions in mind namely to better support new application areas like CAD CAM office automation knowledge engineering and to overcome the impedance mismatch between data models and programming languages The notion of object orientation in database systems is thus a broader one than e g in

the area of programming languages Structural object orientation provides for data model mechanisms that allow the direct representation and manipulation of highly structured entities behavioral object orientation cares for facilities to associate arbitrary user defined type specific operations with data entities finally full object orientation tries to combine the advantages of both categories Though data model concepts are the decisive feature of object oriented database systems numerous other system aspects have to be reconsidered or allow better solutions respectively in this light They include e g transactions implementation techniques optimization formalization the inclusion of rules and the integration with other systems A number of research prototypes and even some commercial systems are meanwhile available Both approaches to extend databases with object oriented capabilities and approaches to extend object oriented programming languages with database features have been and are being investigated

Index Data Structures in Object-Oriented Databases Thomas A. Mueck, Martin L. Polaschek, 2012-12-06

Object oriented database management systems OODBMS are used to implement and maintain large object databases on persistent storage Regardless whether the underlying database model follows the object oriented the relational or the object relational paradigm a key feature of any DBMS product is content based access to data sets On the one hand this feature provides user friendly query interfaces based on predicates to describe the desired data On the other hand it poses challenging questions regarding DBMS design and implementation as well as the application development process on top of the DBMS The reason for the latter is that the actual query performance depends on a technically meaningful use of access support mechanisms In particular if chosen and applied properly such a mechanism speeds up the execution of predicate based queries In the object oriented world such queries may involve arbitrarily complex terms referring to inheritance hierarchies and aggregation paths These features are attractive at the application level however they increase the complexity of appropriate access support mechanisms which are known to be technically non trivial in the relational world

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