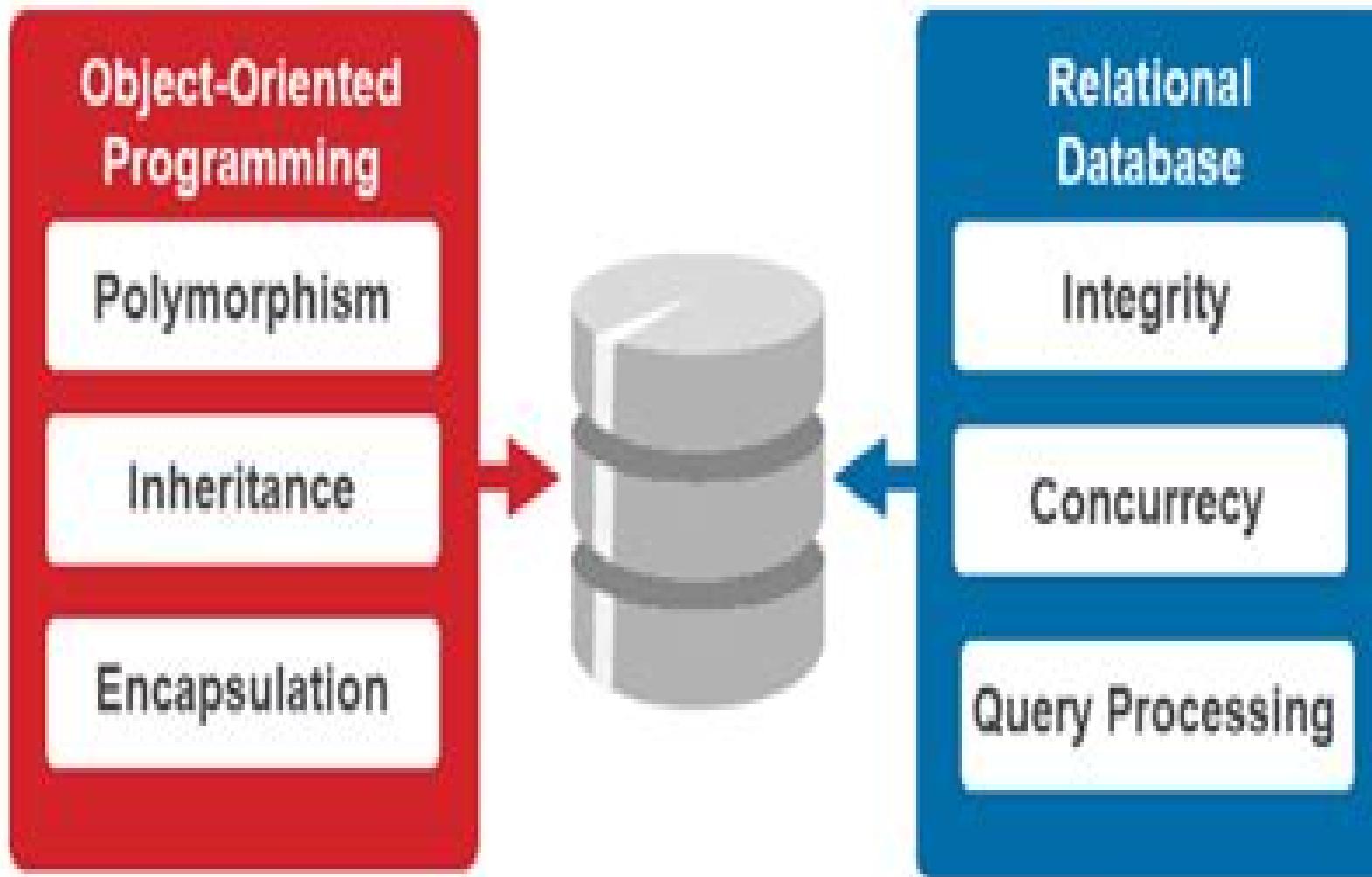


OBJECT - ORIENTED DATABASE



Object Oriented Databases

**Asuman Dogac,M.Tamer
Özsu,Alexandros Biliris,Timos Sellis**

Object Oriented Databases:

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

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-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 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 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 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 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 Toshiyuki 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** 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

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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

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 Databases Dimitris N.

Chorafas,Heinrich Steinmann,1993 This book is for leading edge technologists and executives responsible for data processing office automation and computer integrated manufacturing It discusses the concepts that underpin object oriented approaches and presents a complete range of implementation possibilities Emphasizes object oriented database products and covers ONTOS one of the commercially available DBMS

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 *Advances in Object-Oriented Database Systems* Asuman Dogac,M.Tamer Özsü,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 Concepts,

Databases and Applications Won Kim,Frederick H. Lochovsky,1989 **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

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 *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

Models and Languages of Object-oriented Databases Georg Lausen, Gottfried Vossen, 1998 Brings together key developments in OO databases from areas such as semantic modelling formal data models language design issues object algebra and rule based query languages Shows how these elements may interact within an object oriented database system

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

Definition of Behavior in Object-Oriented Databases by View Integration Gunter Preuner, 1998

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