

Object - Oriented Database

Object-Oriented
Programming

Polymorphism

Inheritance

Encapsulation



Relational
Database

Integrity

Concurrency

Query Processing

Object Oriented Database Prog

François Bancilhon, Peter Buneman



Object Oriented Database Prog:

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-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-Oriented Database Programming Suad Alagic, 2012-12-06 The major topic of this book is the integration of data and programming languages and the associated methodologies To my knowledge this is the first book on modern programming languages and programming methodology devoted entirely to database application environments At the same time it is written with the goal of reconciling the relational and object oriented approaches to database management One of the reasons that influenced my decision to write this book is my dissatisfaction with the fact that the existing books on programming methodology and the associated concepts techniques and programming language notation are largely based on mathematical problems and mathematically oriented algorithms As such they give the impression that modern program structures associated techniques and methodologies not to speak of the formal ones are applicable only to problems of that sort Although important such problems are of limited applicability and scale This does not apply to books in which modern concepts techniques methodologies and programming language notation are applied to systems programming But even so this does not demonstrate that in entirely application oriented problems those in which modern computer technology is most widely used modern programming methodology is just as important This book is meant to be a step toward providing a more convincing support of such a claim and thus is based entirely on common what one might call business oriented problems in which database technology has been successfully used

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 Toshiyasu 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 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

Proceedings of the Second International Workshop on Database Programming Languages Richard Hull, Ronald Morrison, David Stemple, 1990

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

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 Databases John G. Hughes, 1991 The principles of the semantic data modelling are described here in depth and this is followed by a description of the application of object oriented techniques in this area Separate chapters are devoted to implementational issues such as persistence and concurrency

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

Object-oriented Database Programming Suad Alagić, 1989

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

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

Information Systems Reengineering, Integration and Normalization Joseph S. P. Fong, Kenneth Wong Ting Yan, 2022-01-01 Database technology is an important subject in Computer Science Every large company and nation needs a database to store information The technology has evolved from file systems in the 60 s to Hierarchical and Network databases in the 70 s to relational databases in the 80 s object oriented databases in the 90 s and to XML documents and NoSQL today As a result there is a need to reengineer and update old databases into new databases This book presents solutions for this task In this fourth edition Chapter 9 Heterogeneous Database Connectivity HDBC offers a database gateway platform for companies to communicate with each other not only with their data but also via their database The ability of sharing a database can contribute to the applications of Big Data and surveys for decision support systems The HDBC gateway solution collects input from the database transfers the data into its middleware storage converts it into a common data format such as XML documents and then distributes them to the users HDBC transforms the common data into the target database to meet the user s requirements acting like a voltage transformer hub The voltage transformer converts the voltage to a voltage required by the users Similarly HDBC transforms the database to the target database required by the users This book covers reengineering for data conversion integration for combining databases and merging databases and expert system rules normalization for eliminating duplicate data from the database and above all HDBC connects all legacy databases to one target database for the users The authors provide a forum for readers to ask questions and the answers are given by the authors and the other readers on the Internet

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

Database Programming Languages Paris C. Kanellakis, Joachim W. Schmidt, 1992 Proceedings of the Third International Workshop on Database Programming Languages DBPL3 held in Nafplion Greece August 1991 Contributions are on bulk data types system implementation and specification object oriented semantics DBPL optimization and active databases and updates Annotation

Database Programming Languages, 1998

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

Journal of Object-oriented Programming, 1999

Advances in Database Programming Languages

François Bancilhon, Peter Buneman, 1990 This edited volume describes current attempts to understand and to develop database programming languages Earlier efforts to combine database and programming language technologies involved coupling one system with another such as SQL embedded in C or combining functionalities in one system as in Pascal R The most recent work on which this book focuses develops integrated systems from a new integrated technology It shows for example how large knowledge based systems using this new technology provide a uniform way of programming storing and managing data

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