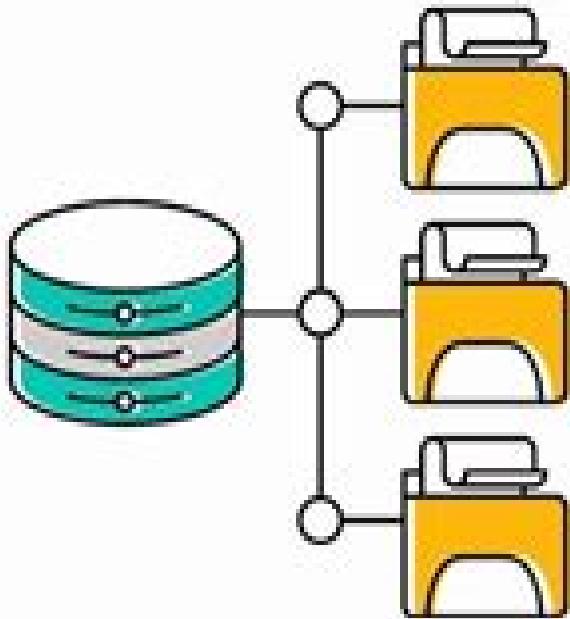


# OBJECT-ORIENTED DATABASE



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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.

# Objectoriented Database Programming

**Won Kim**

## **Object-oriented Database Programming:**

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

overwiew 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 *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 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 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

**Type System for an Object-oriented Database Programming Language** ,1999 **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 *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.

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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.

**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.

**Designing an Object-oriented Database Programming Language Based on GOODM (generalized Object-oriented Data Model)**  
Jung-Un Lee, 1990 **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-oriented Database Design Clearly Explained Jan L. Harrington, 2000. This book will help you make sense of the conflicting theories and vendor claims about object oriented database systems. BOOK JACKET

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