The Object Database Standard

* The OMG (Object Management Group) is creating and promulgating a standard for OO technology

* The goal is to minimize incompatibility across platforms and standardize some features

* OMG has released an Object Database Standard

[Object Database Standard](#)

Tom Atwood

Object Database Standard:

The Object Database Standard Roderic Geoffrey Galton Cattell,Douglas K. Barry,1997 A major revision of the standard for object database management systems ODBMSs this book represents an important industry consensus on component technology for database products and languages enabling wide acceptance and adoption of object database technology This revision adds coverage of Java bindings to the updated material on C and SmallTalk **The Object Database Standard, ODMG-93** Tom Atwood,1994 This book is the first of its kind and is produced as a result of the efforts by a consortium of database companies called the Object Database Management Group ODMG With this book standards are defined for object management systems and this will be the foundational book for object oriented database product **The Object Database Standard, ODMG-93** Roderic Geoffrey Galton Cattell,Tom Atwood,1996 An essential guide to future trends in object oriented and database technology this is an important industry consensus on component technology for database products enabling wide acceptance and adoption of object database technology *The Object Data Standard* Roderic Geoffrey Galton Cattell,Douglas K. Barry,Mark Berler,2000 ODMG is a widely accepted standard for object database modelling every year more companies implement it ODMG 3 0 integrates programming languages with databases and ensures the portability of applications across platforms and DBMS products *The Object Database Standard* Tom Atwood,1994 *C++ Object Databases* David Jordan,1998 Written by ODGM s C representative this pragmatic guidebook is the first comprehensive introduction to programming object oriented databases with OQL It offers comparisons with SQL with which readers are already familiar as a bridge to understanding OQL and as a means of contrasting object oriented versus relational database development **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   **Objects and Databases** Alan Dearle,Roberto V. Zicari,2010-09-21 AccordingtoFrancoisBancillonandWonKim SIGMODRECORD Vol 19 No 4 December 1990 object oriented databases started in around 1983 Twen seven years later this publication contains the proceedings of the Third Inter tional Conference on Object Oriented Databases ICOODB 2010 Two questions arise from this why only the third and what is of interest in the eld of object oriented databases in 2010 The rst question is easy in the 1980s and 1990s there were a number of conferences supporting the c munity the International Workshops on Persistent Object Systems started by Malcolm Atkinson and Ron Morrison the EDBT series and the International Workshop on Database Programming Languages These database oriented c ferences complimented other OO conferences including OOPSLA and ECOOP but towards the end of the last century they dwindled in popularity and ev tually died out In 2008 the First International Conference on Object Databases was held in Berlin In 2009 the second ICOODB conference was held at the ETH in Zurich as a scienti c peer reviewed conference What is particular about ICOODB is that the conference series was est lished to address the needs of both industry and researcherswho had an interest in object databases in innovative ways to bring objects and databases together and in alternatives extensions to relational databases The rst conference set the mould for those to follow a combination of theory and practice with one day focusing on the theory of object databases and the second focusing on their practical use and implementation   **Food, Climate, and Carbon Dioxide** Sylvan H. Wittwer,1995-07-14 Food Climate and Carbon Dioxide presents the most comprehensive and up to date discussion on the effects of the rising level of atmospheric carbon dioxide on crop production and plant growth The emphasis is global It examines crops of economic value with special attention to the food crops that stand between people and starvation The author has brought together his knowledge and 50 years of experience dealing with global food production problems coupled with and a background of his own premier research on the positive effects of elevated levels of atmospheric carbon dioxide on plant growth and crop productivity Topics addressed include the climate as a resource in food production and climatic impacts and direct effects from rising levels of atmospheric carbon dioxide on crops The book provides global and regional projections of a CO2 induced climate change and food production Food security is discussed and future possibilities for research are presented Suitable as a text and invaluable as a reference it presents the latest developments drawn from a wide scientific community and uses language and terminology

appropriate for a diverse audience **Object-oriented Analysis, Design, and Databases** ,1994 **Object Databases** Mary E. S. Loomis,1994 This volume conveys the important facts and concepts business professionals need in order to understand the role of object databases in today s rapidly evolving computing environments Covering all aspects of the essentials of object database technology without requiring advanced technical knowledge this book makes an excellent introductory reference for database experts and non experts alike Geoinformatics in Theory and Practice Norbert de Lange,2023-06-23 This textbook is intended to display a broad methodological introduction to geoinformatics and geoinformation science It deals with the recording modeling processing and analysis as well as presenting and distributing of geodata As an integrated approach it is dedicated to the multidisciplinary application of methods and concepts of computer science to solve spatial tasks First the reader receives an introduction to the approach and tasks of geoinformatics basic concepts and general principles of information processing as well as essentials of computer science Then this textbook focuses on the following topics spatial reference systems digital spatial data interoperability of spatial data visualization of spatial information data organization and database systems geoinformation systems remote sensing and digital image processing The result is a comprehensive manual for studies and practical applications in geoinformatics It serves also as a basis to support and deepen methodological courses in geography geology geodesy and surveying as well as all environmental sciences In this first English edition the author has updated and significantly expanded the fourth German edition New additions include the development of apps graphical presentation on the web geodata bases and recent methods of classification This book is based on the original German 4th edition Geoinformatik in Theorie und Praxis by Norbert de Lange published by Springer Verlag GmbH Germany part of Springer Nature in 2020 and still presents the only integrated perspective on geoinformatics and geoinformation science This book was translated with the help of artificial intelligence machine translation by the service DeepL com first and then significantly revised with regard to technical terms and special topics of geoinformatics *Java Data Objects* David Jordan,Craig Russell,2003-04-22 This is a definitive guide to JDO API It provides a thorough introduction to JDO Java Data Objects starting with a simple application that demonstrates many of JDO s capabilities It shows the reader how to make classes persistent how to configure JDO at runtime how to make queries and more **Object Database Standards, Persistence Specifications, and Physics Data** ,1995 Designers of data systems for next generation physics experiments face a bewildering array of potential paths On the one hand object data base technology is quite promising and standardization efforts are underway in this arena On another lightweight object managers may offer greater potential for delivering the high performance needed from petabyte scale data stores and may allow more efficient tailoring to specific parallel and distributed environments as well as to multilevel storage Adding to the confusion is the evolution of persistence services specifications such as those promulgated by the Object Management Group OMG In this paper we describe what we have learned in efforts to implement a physics data store using several of these technologies

including a lightweight object persistence manager aiming at plug and play with object databases and a trial implementation of the OMG Persistent Data Services Direct Access protocol   *Fundamentals of Database Systems* Ramez Elmasri,Sham Navathe,2004 This is a revision of the market leading book for providing the fundamental concepts of database management systems Clear explaination of theory and design topics Broad coverage of models and real systems Excellent examples with up to date introduction to modern technologies Revised to include more SQL more UML and XML and the Internet   Object Databases in Practice Mary E. S. Loomis,Akmal B. Chaudhri,1998 You ll learn how to identify the best applications for OODBMS systems understand the hardware requirements and manage the technical tradeoffs Object Databases in Practice presents insightful coverage of all five critical aspects of OODBMS deployment architecture application design product selection migration and performance optimization   *Object Database Development* David W. Embley,1998 With a focus on core principles and concepts this book takes an object oriented approach to modeling and developing database applications and provides a seamless way to move from analysis through specification and design into implementation Case studies are presented using Oracle UniSQL O2 ObjectStore with Java Ode and PROLOG   Database Systems Thomas M. Connolly,Carolyn E. Begg,2002 This text includes material on distributed databases object oriented databases data mining data warehouses multimedia databases and the Internet and provides a strong foundation in good design practice   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   *Database Concepts and Management Systems* David Kroenke,2000

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Table of Contents Object Database Standard

- ○ Integration of Multimedia Elements
- ○ Interactive and Gamified eBooks

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