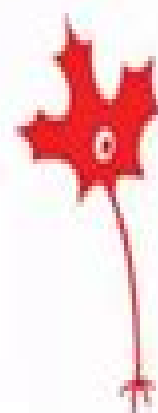


5. Database system apply the normalization of tables to delete redundant data from the tables, to reduce the complexity. Normal forms are a set of rules that help to correct the transformation of entities and relationships to the structure of the physical layout of the tables that is not used in ontologies.
6. A database uses an ER diagram to describe the syntax; this technique is used for abstract and conceptual data representation. In ontology, however, the syntax is written by logic; the most common is the description logic that corresponds to the OWL DL, a language for creating ontologies.
7. Ontologies can be created using existing ontologies while databases are created from scratch like all tables and their content have to design new.
8. But there are certain similarities between ontologies and databases. we can convert a database to an ontology and vice versa using the approach Ontology Inverse Engineering.



# Ontologies And Databases

**Vassilis Christophides, Martine  
Collard, Claudio Gutierrez**



## **Ontologies And Databases:**

**Ontologies and Databases** Athman Bouguettaya, 2013-03-09 Ontologies and Databases brings together in one place important contributions and up to date research results in this fast moving area Ontologies and Databases serves as an excellent reference providing insight into some of the most challenging research issues in the field Semantic Web, Ontologies and Databases Vassilis Christophides, Martine Collard, Claudio Gutierrez, 2008-07-14 This book constitutes the thoroughly refereed post conference proceedings of the joint International Workshops on Semantic Web Ontologies and Databases SWDB ODBIS 2007 co located with the 33rd International Conference on Very Large Data Bases VLDB 2007 held in Vienna Austria in September 2007 The 7 revised full papers presented together with 1 invited paper were carefully selected from 11 submissions Among the topics addressed are semantics aware data models and query languages ontology based views mapping transformations and query reformulation and storing and indexing semantic Web data and schemas

**Ontologies-Based Databases and Information Systems** Martine Collard, 2007-09-13 This book constitutes the refereed post proceedings of the First and Second VLDB Workshop Ontologies based techniques for DataBases and Information Systems held in Trondheim Norway September 2005 and Seoul Korea September 2006 The topics include ontology based interoperability and schema matching management of ontological bases and links between ontologies and knowledge *Web Semantics & Ontology* Taniar, David, Rahayu, Johanna Wenny, 2006-02-28 This book provides an overview of current research and development activities in the area of web semantics and ontology giving an in depth description of different issues including modeling using ontologies in enterprise systems querying and knowledge discovering of ontologies Provided by publisher Advances in Databases and Information Systems Johann Eder, Mária Bielíková, A Min Tjoa, 2011-09-09 This book constitutes the refereed proceedings of the 15th International Conference on Advances in Databases and Information Systems ADBIS 2011 held in Vienna Austria in September 2011 The 30 revised full papers presented together with 2 full length invited talks were carefully reviewed and selected from 105 submissions They are organized in topical sections on query processing data warehousing DB systems spatial data information systems physical DB design evolution integrity security and data semantics *Handbook on Ontologies* Steffen Staab, Rudi Studer, 2013-04-17 An ontology is a description like a formal specification of a program of concepts and relationships that can exist for an agent or a community of agents The concept is important for the purpose of enabling knowledge sharing and reuse The Handbook on Ontologies provides a comprehensive overview of the current status and future perspectives of the field of ontologies The handbook demonstrates standards that have been created recently it surveys methods that have been developed and it shows how to bring both into practice of ontology infrastructures and applications that are the best of their kind **Ontologies** Dieter Fensel, 2013-03-09 This second edition systematically introduces the notion of ontologies to the non expert reader and demonstrates in detail how to apply this conceptual framework for improved intranet retrieval of corporate information and

knowledge and for enhanced Internet based electronic commerce He also describes ontology languages XML RDF and OWL and ontology tools and the application of ontologies In addition to structural improvements the second edition covers recent developments relating to the Semantic Web and emerging web based standard languages

**Materials Science and Engineering** Joseph Glick,2013-07-10 The discipline of informatics emerged from the need to translate biomedical research into evidence based healthcare protocols and policy Materials science informatics is rooted in an analogous need to translate physical sciences research and discoveries into materials based solutions to address a broad range of issues and challenges for business government and the environment Ontologies and databases are key elements of translational architectures and therefore are fundamental tools of the practice of informatics Databases are tools for engineering data and information while ontologies are tools for engineering knowledge and utility Since knowledge and utility are the core objectives of informatics correctly understanding and utilizing ontologies is critical to the development of effective materials informatics programs and tools Rooted in philosophy the term ontology appears most frequently today in connection with semantic web technology where it refers to vocabularies used by inference engines to interpret human use of language Materials science ontologies need to capture the scientific context of the defined concepts to support modeling and prediction of multidimensional structure property relationships in variable environments and applications Addressing the complexity of materials science ontologies requires a significant departure from traditional database and semantic web ontology approaches including the use of neural networks that are capable of implementing methods for modeling context relevance complex systems and human expertise Pioneering efforts in this space include the Knowledge Engineering for Nanoinformatics Pilot KENI launched by the Nanoinformatics Society in 2010 and a collaborative Materials Genome Modeling Methodology initiative led by Iowa State University and initiated in 2011

**Bioinformatics** Andrzej Polanski,Marek Kimmel,2007-04-19 This textbook presents mathematical models in bioinformatics and describes biological problems that inspire the computer science tools used to manage the enormous data sets involved The first part of the book covers mathematical and computational methods with practical applications presented in the second part The mathematical presentation avoids unnecessary formalism while remaining clear and precise The book closes with a thorough bibliography reaching from classic research results to very recent findings This volume is suited for a senior undergraduate or graduate course on bioinformatics with a strong focus on mathematical and computer science background

**Semantic Web Services for Web Databases** Mourad Ouzzani,Athman Bouguettaya,2011-10-23 Semantic Web Services for Web Databases introduces an end to end framework for querying Web databases using novel Web service querying techniques This includes a detailed framework for the query infrastructure for Web databases and services Case studies are covered in the last section of this book Semantic Web Services For Web Databases is designed for practitioners and researchers focused on service oriented computing and Web databases

Theory and Practice of Model Transformation Arend Rensink,Jesús Sánchez Cuadrado,2018-06-18 This book constitutes

the refereed proceedings of the 11th International Conference on Model Transformation ICMT 2018 held as part of STAF 2018 in Toulouse France in June 2018 The 9 full papers were carefully reviewed and selected from 24 submissions This book also presents 1 invited paper The papers include research application and tool demonstration papers presented in the context of four sessions on verification of model transformations model transformation tools transformation reuse and graph transformations

*On the Move to Meaningful Internet Systems: OTM 2009* Robert Meersman, Tharam Dillon, Pilar Herrero, 2009-10-26 This two volume set LNCS 5870 5871 constitutes the refereed proceedings of the four confederated international conferences on Cooperative Information Systems CoopIS 2009 Distributed Objects and Applications DOA 2009 Information Security IS 2009 and Ontologies Databases and Applications of Semantics ODBASE 2009 held as OTM 2009 in Vilamoura Portugal in November 2009 The 83 revised full papers presented together with 4 keynote talks were carefully reviewed and selected from a total of 234 submissions Corresponding to the four OTM 2009 main conferences CoopIS DOA IS and ODBASE the papers are organized in topical sections on workflow process models ontology challenges network complexity modeling cooperation information complexity infrastructure information aspect oriented approaches for distributed middleware distributed algorithms and communication protocols distributed infrastructures for cluster and Grid computing object based component based resource oriented event oriented and service oriented middleware peer to peer and centralized infrastructures performance analysis of distributed computing systems reliability fault tolerance quality of service and real time support self properties in distributed middleware software engineering for distributed middleware systems security and privacy in a connected world ubiquitous and pervasive computing information systems security privacy and authentication security policies and verification managing ontologies using ontologies event processing dealing with heterogeneity building knowledge bases and XML and XML schema

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Bertram Ludäscher, Nikos Mamoulis, 2008-07-11 This book constitutes the refereed proceedings of the 20th International Conference on Scientific and Statistical Database Management SSDBM 2008 held in Hong Kong China in July 2008 The 28 revised full papers 7 revised short papers and 8 poster and demo papers presented together with 3 invited talks were carefully reviewed and selected from 84 submissions The papers are organized in topical sections on query optimization in scientific databases privacy searching and mining graphs data streams scientific database applications advanced indexing methods data mining as well as advanced queries and uncertain data

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Ioannidis,2007-09-17 This book constitutes the refereed proceedings of the 11th East European Conference on Advances in Databases and Information Systems ADBIS 2007 held in Varna Bulgaria in September October 2007 The 23 revised papers presented together with three invited lectures were carefully reviewed and selected from 77 submissions The papers address current research on database theory development of advanced DBMS technologies and their advanced applications

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generated more than 1000 referee reports The hard work of the authors the referees and the Program Committee is gratefully acknowledged     Intelligent Multimedia Databases and Information Retrieval: Advancing Applications and Technologies Yan, Li, 2011-09-30 As consumer costs for multimedia devices such as digital cameras and Web phones have decreased and diversity in the market has skyrocketed the amount of digital information has grown considerably Intelligent Multimedia Databases and Information Retrieval Advancing Applications and Technologies details the latest information retrieval technologies and applications the research surrounding the field and the methodologies and design related to multimedia databases Together with academic researchers and developers from both information retrieval and artificial intelligence fields this book details issues and semantics of data retrieval with contributions from around the globe As the information and data from multimedia databases continues to expand the research and documentation surrounding it should keep pace as best as possible and this book provides an excellent resource for the latest developments

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