DESIGNING
XML Databases

Designing Xml Databases

Mark Graves

Designing Xml Databases:

Designing XML Databases Mark Graves,2002 CD ROM contains Apache Tomcat Xerces XML parser Examples to help build your own XML database **Automatic Physical Design for XML Databases** Iman Elghandour,2010 Database systems employ physical structures such as indexes and materialized views to improve query performance potentially by orders of magnitude It is therefore important for a database administrator to choose the appropriate configuration of these physical structures i e the appropriate physical design for a given database Deciding on the physical design of a database is not an easy task and a considerable amount of research exists on automatic physical design tools for relational databases Recently XML database systems are increasingly being used for managing highly structured XML data and support for XML data is being added to commercial relational database systems This raises the important question of how to choose the appropriate physical design i e the appropriate set of physical structures for an XML database Relational automatic physical design tools are not adequate so new research is needed in this area In this thesis we address the problem of automatic physical design for XML databases which is the process of automatically selecting the best set of physical structures for a given database and a given query workload representing the client application s usage patterns of this data We focus on recommending two types of physical structures XML indexes and relational materialized views of XML data **Designing XML Databases** Mark Graves,2002 CD ROM contains Apache Tomcat Xerces XML parser Examples to help build your own XML database *XML Data Management* Akmal B. Chaudhri,Awais Rashid,Roberto Zicari,2003 In this book you will find discussions on the newest native XML databases along with information on working with XML enabled relational database systems In addition XML Data Management thoroughly examines benchmarks and analysis techniques for performance of XML databases This book is best used by students that are knowledgeable in database technology and are familiar with XML **XML Databases and the Semantic Web** Bhavani Thuraisingham,2002-03-27 Efficient access to data sharing data extracting information from data and making use of the information have become urgent needs for today s corporations With so much data on the Web managing it with conventional tools is becoming almost impossible New tools and techniques are necessary to provide interoperability as well as warehousing betw *Oracle Database 10g XML & SQL: Design, Build, & Manage XML Applications in Java, C, C++, & PL/SQL* Mark Scardina,Ben Chang,Jinyu Wang,2004-06-28 Written by members of the Oracle XML group this is a must have reference for all IT managers DBAs and developers who want to learn the best practices for using XML with Oracle s XML enabled products Includes real world case studies based on the authors experience managing Oracle s XML Discussion Forum a community of 20 000 XML component users Designing XML Databases: CD ROM Mark Graves,2002 **Practical Web Database Design** Chris Auld,Allan Kent,Rudy Limeback,Nigel Stanger,Thearon Willis,2013-11-11 Although many web professionals will have incorporated a database into a web site before they may not have much experience of designing them this book will teach you all you need to know about designing a

database for use with a web site or web application From first principles to designing a successful web database this book will show you how to get the most out of database design From the Publisher Unlike other database design books in the market this one focuses on design of databases for use on the Web Web databases benefit from good general database design principles but also have their own set of caveats which must be considered for their design to be truly successful This book covers both the general and the web specific database principles   *Innovations in Database Design, Web Applications, and Information Systems Management* Siau, Keng,2012-09-30 New techniques and tools for database and database technologies are continuously being introduced These technologies are the heart of many business information systems and can benefit from theories models and research results from other disciplines Innovations in Database Design Web Applications and Information Systems Management presents ideal research in the areas of database theory systems design ontologies and many more Including examples of the convergence of ideas from various disciplines aimed at improving and developing the theory of information technology and management of information resources this book is useful for researchers and practitioners in the IT field   Open Source XML Database Toolkit Liam Quin,2000-08-11 An in depth look at making XML work with database applications Open Source XML Database Toolkit This guide will arm you with the nuts and bolts information and tools you ll need to exploit XML s powerful capabilities Focusing specifically on how XML works with database technologies including relational and object oriented databases the book provides clear technical coverage of the key issues involved with storing XML in databases and using databases with XML applications Expert Liam Quin first introduces you to the main concepts of XML and then reveals how to work with this technology He offers helpful tips and techniques to show you how to move data stored in relational databases in and out of an XML application You ll also learn how to store XML documents in a database find and use the best XML database tools and applications and store links in a database for metadata access You ll also gain a better understanding of W3C specifications for XQL XSL Xlink and Xpointer Programmers Web developers and technical managers who need to extract database contents as XML or store XML in a database will find this book to be an invaluable resource This book concentrates on techniques rather than specific tools but mentions a wide range of software both commercial and open source including FreeBSD Solaris and Linux MySQL XT and other XML processors Apache Oracle SoftQuad XMetal and other XML editing software Object Design s ObjectStore The companion Web site at www wiley com compbooks quin features Additional resources Utilities Examples from the book Updated information   *Enterprise Architecture, Integration and Interoperability* Peter Bernus,Guy Doumeingts,Mark Fox,2010-08-23 Enterprise Architecture Integration and Interoperability and the Networked enterprise have become the theme of many conferences in the past few years These conferences were organised by IFIP TC5 with the support of its two working groups WG 5 12 Architectures for Enterprise Integration and WG 5 8 Enterprise Interoperability both concerned with aspects of the topic how is it possible to architect and implement businesses that are flexible and able to change to

interact and use one another s s vices in a dynamic manner for the purpose of joint value creation The original qu tion of enterprise integration in the 1980s was how can we achieve and integrate formation and material flow in the enterprise Various methods and reference models were developed or proposed ranging from tightly integrated monolithic system chitectures through cell based manufacturing to on demand interconnection of bu nesses to form virtual enterprises in response to market opportunities Two camps have emerged in the endeavour to achieve the same goal namely to achieve interoperability between businesses whereupon interoperability is the ability to exchange information in order to use one another s services or to jointly implement a service One school of researchers addresses the technical aspects of creating dynamic and static interconnections between disparate businesses or parts thereof **Mobile and Wireless Design Essentials** Martyn Mallick,2003-03-10 Describes mobile and wireless design techniques from the developer s perspective offering in depth analysis of the complete range of network technologies Details development options for building Smart Client Thin Client and messaging applications as well as PIM personal information management and location based services The author is an experienced trainer who leads seminars and workshops worldwide for iAnywhere Solutions a subsidiary of Sybase <u>Global Design to Gain a Competitive Edge</u> Xiu-Tian Yan,Benoit Eynard,William J. Ion,2008-07-30 Recent rapid globalisation of manufacturing industries leads to a drive and thirst for rapid advancements in technological development and expertise in the fields of advanced design and manufacturing especially at their interfaces This development results in many economical benefits to and improvement of quality of life for many people all over the world Technically speaking this rapid development also create many opportunities and challenges for both industrialists and academics as the design requirements and constraints have completely changed in this global design and manufacture environment Consequently the way to design manufacture and realise products have changed as well The days of designing for a local market and using local suppliers in manufacturing have gone if enterprises aim to maintain their competitiveness and global expansion leading to further success In this global context and scenario both industry and the academia have an urgent need to equip themselves with the latest knowledge technology and methods developed for engineering design and manufacture To address this shift in engineering design and manufacture supported by the European Commission under the Asia Link Programme with a project title FASTAHEAD A Framework Approach to Strengthening Asian Higher Education in Advanced Design and Manufacture three key project partners namely the University of Strathclyde of the United Kingdom Northwestern Polytechncial University of China and the Troyes University of Technology of France organised a third international conference **XML for Data Architects** James Bean,2003-07-03 XML for Data Architects focuses on the combination of architectural and design approaches to using XML providing numerous syntactical and working examples It describes the challenges of using XML in a manner that promotes simplification of integration and a high degree of schema reuse *Beginning XML Databases* Gavin Powell,2007 Supported by all major database systems XML provides an easy

standardized method of transferring data between databases and to and from the Web independent of the software in use Offers database programmers and data driven Web developers detailed guidance on how to understand and work with XML as data Numerous hands on step by step examples help readers learn to simplify database work using XML Shows how to use XML to exchange data between multiple databases either internally or with external customers and partners Covers XML in popular databases including Oracle Database SQL Server and brief coverage of DB2 Database Covers basic syntax for XML the XML DOM and XSL with an emphasis on database use and native XML databases Additional topics covered include Native XML databases XPath XQuery XLink XPointer DTDs XML Schemas among others **Database Design: Know It All** Stephen Buxton,2009 Database Design answers the need for a single comprehensive practical reference for database designers Assembled from the works of leading researchers and practitioners this best of the best collection delivers a wide ranging and detailed examination of database design and modeling From ER and UML techniques to conceptual data modeling and table transformation to storing XML and querying moving objects databases this book combines a solid foundation with practical approaches to common structural challenges This is a must have book that you will always want on your desk as you design databases for performance maintainability and administration Jacket **Advances in Database Technology** ,2002 *Managing Complex Databases in a Schema Management Framework* Cong Yu,2007 An Analysis of the Current Development Stage of the eXtensible Markup Language (XML) and its Usage for Database Systems German Saueressig,2002-10-01 Inhaltsangabe Abstract The eXtensible Markup Language XML is receiving a great deal of attention from computing and Internet communities This is mainly because of its ability to reduce obstacles in sharing data among diverse applications and databases by providing a common format for expressing data structure and content The scope of this project is to investigate the current stage of XML and its usage for database systems In order to understand the XML database technology a general introduction to both database systems and XML is provided to the reader in chapter two and three Chapter four and five deal with the methodology and findings of this project These chapters rely on articles case studies and surveys which are examined and evaluated Finally a conclusion and review chapter is included The analysis of the current adoption of XML among software developers revealed that in Spring 2001 more than one third of international developers already used XML In 2001 they spent about 5 4% of their development time using XML For 2002 it is predicted that they will spend an average of 9% of their development time using XML Concerning XML databases there are currently two major XML related database types available These are native XML and XML enabled relational databases Native XML databases are constructed to use the recommended XML standards to the most possible extent Thereby the XML document is the fundamental unit of storage XML enabled relational databases are relational databases equipped with an additional layer to map XML content in to the relational tables XML documents are only used as a means of transport between the database systems Native XML databases are better suited for dealing with document structured content whilst XML enabled relational

databases are more appropriate to handle data structured content such as numbers and pieces of text The implementation process of an XML related database system into an organisation requires the right management of change to be able to handle both the technology involved and the people affected by the database system Therefore effective change management must cover the whole project life cycle from the formulation of the strategy to the achievement of the benefits

Annual Report State University of New York at Albany. Center for Technology in Government,1996

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