Informix Guide To Sql Tutorial

Craft the Right Design Using UML Whether building a relational, object-relational, or object-oriented database, database developers are increasingly relying on an object-oriented design approach as the best way to meet user needs and performance criteria. This book teaches you how to use the Unified Modeling Language-the official standard of the Object Management Group-to develop and implement the best possible design for your database. Inside, the author leads you step by step through the design process, from requirements analysis to schema generation. You'll learn to express stakeholder needs in UML use cases and actor diagrams, to translate UML entities into database components, and to transform the resulting design into relational, object-relational, and object-oriented schemas for all major DBMS products. Features Teaches you everything you need to know to design, build, and test databases using an OO model. Shows you how to use UML, the accepted standard for database design according to OO principles. Explains how to transform your design into a conceptual schema for relational, object-relational, and object-oriented DBMSs. Offers practical examples of design for Oracle, SQL Server, Sybase, Informix, Object Design, POET, and other database management systems. Focuses

heavily on re-using design patterns for maximum productivity and teaches you how to certify completed designs for re-use.

IBM® Informix® is a low-administration, easy-to-use, and embeddable database that is ideal for application development. It supports a wide range of development platforms, such as JavaTM, .NET, PHP, and web services, enabling developers to build database applications in the language of their choice. Informix is designed to handle RDBMS data and XML without modification and can be extended easily to handle new data sets. This IBM Redbooks® publication provides fundamentals of Informix application development. It covers the Informix Client installation and configuration for application development environments. It discusses the skills and techniques for building Informix applications with Java, ESQL/C, OLE DB, .NET, PHP, Ruby on Rails, DataBlade®, and Hibernate. The book uses code examples to demonstrate how to develop an Informix application with various drivers, APIs, and interfaces. It also provides application development troubleshooting and considerations for performance. This book is intended for developers who use IBM Informix for application development. Although some of the topics that we discuss are highly technical, the information in the book might also be helpful for managers or database administrators who are looking to better understand their Informix development environment.

The world is becoming more and more instrumented, interconnected, and intelligent in what IBM® terms a smarter planet, with more and more data being collected for analysis. In trade magazines, this trend is called big data. As part of this trend, the following types of time-based information are collected: Large data centers support a corporation or provide cloud services. These data centers need to collect temperature, humidity, and other types of information over time to optimize energy usage. Utility meters (referred to as smart meters) allow utility companies to collect information over a wireless network and to collect more data than ever before. IBM Informix® TimeSeries is optimized for the processing of time-based data and can provide the following benefits: Storage savings: Storage can be optimized when you know the characteristics of your time-based data. Informix TimeSeries often uses one third of the storage space that is required by a standard relational database. Query performance: Informix TimeSeries takes into consideration the type of data to optimize its organization on disk and eliminates the need for some large indexes and additional sorting. For these reasons and more, some queries can easily have an order of magnitude performance improvement compared to standard relational. Simpler queries: Informix TimeSeries includes a large set of specialized functions that allow you to better express the processing that you want to execute. It even provides a toolkit

so that you can add proprietary algoritms to the library. This IBM Redbooks® publication is for people who want to implement a solution that revolves around time-based data. It gives you the information that you need to get started and be productive with Informix TimeSeries.

One of the greatest strengths of the Perl programming language is its ability to manipulate large amounts of data. Database programming is therefore a natural fit for Perl, not only for business applications but also for CGI-based web and intranet applications.The primary interface for database programming in Perl is DBI. DBI is a database-independent package that provides a consistent set of routines regardless of what database product you use--Oracle, Sybase, Ingres, Informix, you name it. The design of DBI is to separate the actual database drivers (DBDs) from the programmer's API, so any DBI program can work with any database, or even with multiple databases by different vendors simultaneously.Programming the Perl DBI is coauthored by Alligator Descartes, one of the most active members of the DBI community, and by Tim Bunce, the inventor of DBI. For the uninitiated, the book explains the architecture of DBI and shows you how to write DBI-based programs. For the experienced DBI dabbler, this book reveals DBI's nuances and the peculiarities of each individual DBD.The book includes: An introduction to DBI and its design How to construct queries

and bind parameters Working with database, driver, and statement handles Debugging techniques Coverage of each existing DBD A complete reference to DBI This is the definitive book for database programming in Perl.
IBM® InfoSphere® Guardium® provides the simplest, most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center. InfoSphere Guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments. InfoSphere Guardium offers a flexible and scalable solution to support varying customer architecture requirements. This IBM Redbooks® publication provides a guide for deploying the Guardium solutions. This book also provides a roadmap process for implementing an InfoSphere Guardium solution that is based on years of experience and best practices that were collected from various Guardium experts. We describe planning, installation, configuration, monitoring, and administrating an InfoSphere Guardium environment. We also describe use cases and how InfoSphere Guardium integrates with other IBM products. The guidance can help you successfully deploy and manage an IBM InfoSphere Guardium system. This book is intended for the system administrators and support staff who are responsible for deploying or supporting an InfoSphere Guardium environment.

More businesses and ambitious individuals are trying to bring applications to the Web but they are bewildered with the array of components and concepts needed to create a data-driven site. The cost, stability and ease of development using the Open Source PHP 4 scripting language and a MySQL database makes this combination the best choice for small and mid-size Web-based applications. PHP4/MySQL Database Applications demonstrates web-application development by presenting seven real, ready-to-use examples starting with a simple guess book and ending with a fully-functional e-commerce site with a shopping cart. Inexperienced users will learn the essentials of working with PHP4 and MySQL so they can start building and customizing database applications for the web right away!

Unlike other books on Microsoft SQL Server, "Microsoft SQL Server Black Book" includes customizable real-world examples and actual SQL code that readers can use in their own database systems. Special tips and techniques are provided to help Web masters use SQL server to support dynamic Web sites. The CD-ROM features all examples and SQL source code used in the book, plus a wealth of utilities and an online quick reference.

Offers tips for improving the performance of any SQL database, no matter what the platform. Written for experienced database administrators familiar with SQL, the book

identifies the similarities and differences of eight DBMSs, including Oracle 9i, IBM DB2 7.2, and Microsoft SQL server 2000. It provides strategies for refining sorts, subqueries, columns, tables, indexes, constraints, and locks. Annotation copyrighted by Book News, Inc., Portland, OR

Oracle is placing its enterprise application strategy at the center of its future growth Oracle PeopleSoft will be phasing out its current reports product soon, and all reports will need to be rewritten in XML Publisher

The complete e-business/e-commerce handbook for every decision-maker The E-Business (R)evolution is a complete handbook and briefing for every entrepreneur and executive making e-business plans. Start by understanding the six phases of e-business, from Hello, Im Online, Too through One World -- One Computer. Discover where you fit today -- and where you should be. Build the case for e-business and e-commerce; then learn how to choose the right technologies, avoid the legal (and other) pitfalls of e-business; and much more. Coverage includes: * Planning for e-business: back office systems, technology choices, ISPs, and architecture * Marketing that works: personalization, content, affiliates, localization, promotion, advertising, measurement, and more * Building sticky sites: how to attract and retain customers * Search engines, corporate portals, intelligent agents, and beyond * Internet-based shopping, procurement, and operations technologies - and their business implications * What you need to know about Web security Daniel Amor offers fresh insight into the significance

of each new e-business technology, from Web application servers to XML, open source to Internet chat. He

In this IBM® Redbooks® publication, we discuss considerations, and describe a methodology, for transitioning from Microsoft® SQL Server 2008 to the Informix® Dynamic Server. We focus on the topic areas of data, applications, and administration, providing information about the differences in features and functionality, including the data types, data manipulation language, data definition language, and stored procedures. Understanding the features and functionality of the two products assists you in developing a migration plan. We provide a conversion methodology and discuss the processes for migrating the database objects and data from SQL Server to Informix using various methods. We show the SQL differences between SQL Server and Informix and illustrate, with examples, how to convert tables, views, stored procedures, functions, and triggers. We provide script conversion samples for data loading. We describe application programming and conversion considerations. In addition, we discuss the Informix configuration, as well as the administration features and functions Informix provides to help DBAs manage the Informix database server after it is migrated. With this information, you can develop your required transition methodology, and you can plan and execute the conversion activities in an orderly and cost-effective manner.

This IBM® Redbooks® publication describes IBM DB2® SQL compatibility features.

The latest version of DB2 includes extensive native support for the PL/SQL procedural language, new data types, scalar functions, improved concurrency, built-in packages, OCI, SQLPlus, and more. These features can help with developing applications that run on both DB2 and Oracle and can help simplify the process of moving from Oracle to DB2. In addition, IBM now provides tools to simplify the enablement process, such as the highly scalable IBM Data Movement Tool for moving schema and data into DB2, and an Editor and Profiler for PL/SQL provided by the IBM Data Studio tool suite. This Oracle to DB2 migration guide describes new technology, preferred practices for moving to DB2, and common scenarios that can help you as you move from Oracle to DB2. This book is intended for IT architects and developers who are converting from Oracle to DB2. DB2 compatibility with Oracle is provided through native support. The new capabilities in DB2 that provide compatibility are implemented at the lowest and most intimate levels of the database kernel, as though they were originally engineered for DB2. means that the DB2 implementation is done without the aid of an emulation layer. This intimacy leads to the scalable implementation that DB2 offers, providing identical performance between DB2 compatibility features and DB2 other language elements. For example, DB2 runs SQL PL at the same performance as PL/SQL implementations of the same function.

What is SQL injection? -- Testing for SQL injection -- Reviewing code for SQL injection -- Exploiting SQL injection -- Blind SQL injection exploitation -- Exploiting the operating

system -- Advanced topics -- Code-level defenses -- Platform level defenses -- Confirming and recovering from SQL injection attacks -- References.
Informix-4GL is a fourth-generation language designed specifically for relational database applications, and allows developers to move quickly from the conceptual stage to an application program. A comprehensive guide to the programming facilities available with Informix-4GL, this volume contains extensive code samples with detailed annotations.
What is this book about? Access 2002 is the core database application within the OfficeXP suite. Using VBA (Visual Basic for Applications), the user cancreate his or her own programs in what is essentially a subset ofthe Visual Basic programming language. Using VBA with Access is a tremendously powerful technique, asit allows you to create great user interfaces (like forms orreports) as a front end to actual data storage and manipulationwithin the database itself. What does this book cover? This book is a revision of the best-selling Beginning Access2000 VBA, reworked to provide a rich tutorial to programmingAccess 2002 with VBA. New material covers the enhanced options inAccess 2002 for publishing data to the Web, handling XML,integrating with SQL Server Desktop Engine, and so on. Who is this book for? This book is for the Access user who already has a knowledge ofdatabases and the basic objects of an Access database, and who nowwants to learn how to program with VBA. No prior knowledge ofprogramming is required.

The open source PostgreSQL database is soaring in popularity, as thousands of database and web professionals discover its powerful features, transaction support, performance, and industrial-strength scalability. In this book, a founding member of the PostgreSQL development team introduces everything you need to know to succeed with PostgreSQL, from basic SQL commands through database administration and optimization. PostgreSQL assumes no previous database expertise: it establishes a firm foundation of basic concepts and commands before turning to PostgreSQL's advanced, innovative capabilities. Bruce Momjian walks readers step-by-step from their first database queries through the complex queries needed to solve real-world problems. He presents proper query syntax, then explores the value and use of each key SQL commands in working applications. Learn to manipulate and update databases, customize queries, work with SQL aggregates, use joins, combine SELECTs with subqueries, work with triggers and transactions, import and export data, use PostgreSQL query tools, and more. Discover PostgreSQL techniques for server-side programming and multi-user control, and master PostgreSQL's interfaces to C, C++, ODBC, JDBC, Perl, and Tcl/TK. You'll also find detailed coverage of PostgreSQL administration, including backups, troubleshooting, and access configuration. Getting Started With Amazon Redshift is a step-by-step, practical guide to the world of Redshift. Learn to load, manage, and query data on Redshift.This book is for CIOs, enterprise architects, developers, and anyone else who needs to get familiar with

RedShift. The CIO will gain an understanding of what their technical staff is working on; the technical implementation personnel will get an in-depth view of the technology, and what it will take to implement their own solutions. The authoritative guide to the Informix implementation of SQL Updated for Informix Dynamic Server.2000 and Informix Enterprise Decision Server Informix databases, data types, system catalog tables, and environment variables Updated & expanded! Detailed syntax section covering every SQL and SPL statement Detailed step-by-step diagrams and complete glossary The indispensable reference to the Informix implementation of SQL-updated for the new Informix Dynamic Server.2000 and Informix Enterprise Decision Server! Completely updated to reflect the new Informix Dynamic Server.2000 and Informix Enterprise Decision Server, this is the most authoritative guide to the Informix implementation of SQL! "The Informix Guide to SQL: Reference and Syntax, Second Edition" contains comprehensive descriptions of every SQL and Stored Procedure Language (SPL) statement, plus extensive SQL syntax coverage not included in the first edition. Detailed syntax diagrams walk you through every clause of each SQL statement, and syntax tables explain the input parameters for each clause. Coverage includes: Building object-relational and data warehouse solutions with the Informix implementation of SQL Critical information for creating stored procedures Essential techniques for designing and using ANSI-compliant databases System catalog tables, structure, statistics, information schema views, and more Column data

types supported by Informix products, and essential information for calculation and conversion Environment variables defining terminal identification, software location, and other parameters Detailed information on the structure and contents of the stores_demo, sales_demo, and superstores_demodemonstration databases You'll find thorough usage instructions, pertinent examples, and extensive references torelated documentation, as well as a detailed glossary of object-relational terminology. If you develop database solutions with Informix technology, you can't afford to be without this reference. 0-13-016166-7

Watching her sister in a losing battle with anorexia as a result of being unable to cope with the death of their father, Holly realizes that her own dreams must be put aside for the moment in order to help her sister get through this difficult period by teaching her how to deal with the loss in a healthy way before it's too late. Reprint.

Updated for the latest database management systems -- including MySQL 6.0, Oracle 11g, and Microsoft's SQL Server 2008 -- this introductory guide will get you up and running with SQL quickly. Whether you need to write database applications, perform administrative tasks, or generate reports, Learning SQL, Second Edition, will help you easily master all the SQL fundamentals. Each chapter presents a self-contained lesson on a key SQL concept or technique, with numerous illustrations and annotated examples. Exercises at the end of each chapter let you practice the skills you learn. With this book, you will: Move quickly through SQL basics and learn several advanced

features Use SQL data statements to generate, manipulate, and retrieve data Create database objects, such as tables, indexes, and constraints, using SQL schema statements Learn how data sets interact with queries, and understand the importance of subqueries Convert and manipulate data with SQL's built-in functions, and use conditional logic in data statements Knowledge of SQL is a must for interacting with data. With Learning SQL, you'll quickly learn how to put the power and flexibility of this language to work.

Outside of the world of enterprise computing, there is one database that enables a huge range of software and hardware to flex relational database capabilities, without the baggage and cost of traditional database management systems. That database is SQLite—an embeddable database with an amazingly small footprint, yet able to handle databases of enormous size. SQLite comes equipped with an array of powerful features available through a host of programming and development environments. It is supported by languages such as C, Java, Perl, PHP, Python, Ruby, TCL, and more. The Definitive Guide to SQLite, Second Edition is devoted to complete coverage of the latest version of this powerful database. It offers a thorough overview of SQLite's capabilities and APIs. The book also uses SQLite as the basis for helping newcomers make their first foray into database development. In only a short time you can be writing programs as diverse as a server-side browser plug-in or the next great iPhone or Android application! Learn about SQLite extensions for C, Java, Perl, PHP, Python,

Ruby, and Tcl. Get solid coverage of SQLite internals. Explore developing iOS (iPhone) and Android applications with SQLite. SQLite is the solution chosen for thousands of products around the world, from mobile phones and GPS devices to set-top boxes and web browsers. You almost certainly use SQLite every day without even realizing it! The comprehensive, authoritative resource for Informix database design and implementation! Completely updated for Informix Dynamic Server.2000 and Informix Enterprise Decision Server Three great books, one great price! "Informix(R) Guide to SQL: Reference and Syntax, Second Edition": the complete guide and syntax reference for the Informix implementation of SQL "Informix(R) Guide to SQL: Tutorial, Second Edition": the start-to-finish SQL tutorial for development on Informix platforms "Informix(R) Guide to Designing Databases and Data Warehouses": the insider's guide to real-world database design -- detailed data models, proven step-by-step techniques, and more The total resource for Informix developers & DBAs: 3 authoritative books, direct from Informix! (1)"Informix(R) Guide to SQL: Reference and Syntax, Second Edition" The indispensable reference to the Informix implementation of SQL! "Informix Guide to SQL: Reference and Syntax, Second Edition" contains comprehensive descriptions of every SQL and Stored Procedure Language (SPL) statement, plus extensive SQL syntax coverage not included in the first edition. Detailed syntax diagrams walk you through every clause of each SQL statement, and syntax tables explain the input parameters for each clause. Coverage Includes: Building object-

relational and data warehouse solutions with the Informix implementation of SQL Essential techniques for designing and using ANSI-compliant databases System catalog tables, structure, statistics, information schema views, and more Environment variables defining terminal identification, software location, and other parameters Detailed information on the structure and contentsof the stores_demo, sales_demo, and superstores_demo demonstration databases (2)"Informix(R) Guide to SQL: Tutorial, Second Edition" Master the Informix implementation of SQL, start-to-finish! "Informix Guide to SQL: Tutorial, Second Edition" is the authoritative, complete tutorial for learning the Informix implementation of SQL. Starting with the simplest SELECT statements, this complete course walks you through everything you need to know to succeed with SQL. Learn how to build and optimize queries, both simple and advanced. Use SQL statements to insert, delete, or update data, while you maintain data integrity and security. Learn how to call the database server, retrieve rows, embed data, and create and implement efficient data models, step-by-step. Coverage Includes: Fundamental relational and object-relational database concepts User access and security through GRANT, REVOKE, CREATE VIEW and other SQL statements SQL programming techniques, including dynamic SQL and embedded data definition statements Data manipulation language (DML) statements Creating stored procedures with the Stored Procedure Language (SPL) (3)"Informix(R) Guide to Designing Databases and Data Warehouses" The Informix insider's guide to database and data

warehouse design! "Informix Guide to Designing Databases and Data Warehouses"is the most complete, authoritative guide to database and data warehouse design, implementation, and administration with Informix Dynamic Server.2000 and Informix Enterprise Decision Server. You'll start by walking through the construction of data models that illustrate each key approach to database design. Compare ANSI and non-ANSI compliant databases, learnthe fundamentals of entity-relationship modeling, and choose appropriate data types. Next, you'll learn how to use the Informix implementation of SQL to implement and manage your databases. Coverage Includes: Implementing relational data models with the CREATE DATABASE and CREATE TABLE statements, synonyms, synonym chains, and command scripts Applying fragmentation strategies for maximizing database and data warehouse performance Implementing dimensional data models-including solutions to common problems Applying indexing techniques for data warehousing environments ISBN: 0-13-017042-9 To make better informed business decisions, better serve clients, and increase operational efficiencies, you must be aware of changes to key data as they occur. In addition, you must enable the immediate delivery of this information to the people and processes that need to act upon it. This ability to sense and respond to data changes is fundamental to dynamic warehousing, master data management, and many other key initiatives. A major challenge in providing this type of environment is determining how to tie all the independent systems together and process the immense data flow

requirements. IBM® InfoSphere® Change Data Capture (InfoSphere CDC) can respond to that challenge, providing programming-free data integration, and eliminating redundant data transfer, to minimize the impact on production systems. In this IBM Redbooks® publication, we show you examples of how InfoSphere CDC can be used to implement integrated systems, to keep those systems updated immediately as changes occur, and to use your existing infrastructure and scale up as your workload grows. InfoSphere CDC can also enhance your investment in other software, such as IBM DataStage® and IBM QualityStage®, IBM InfoSphere Warehouse, and IBM InfoSphere Master Data Management Server, enabling real-time and event-driven processes. Enable the integration of your critical data and make it immediately available as your business needs it.
Essential Skills--Made Easy! Written to the SQL:2006 ANSI/ISO standard, this easy-to-follow guide will get you started programming in SQL right away. You will learn how to retrieve, insert, update, and delete database data, and perform management and administrative functions. SQL: A Beginner's Guide, Third Edition covers new features, including SQL/XML, and is loaded with updated SQL examples along with notes on using them with the latest RDBMS software versions such as MySQL 5.0, SQL Server 2008, and Oracle Database 11g. Designed for Easy Learning: Key Skills & Concepts--Lists of specific skills covered in the chapter Ask the Experts--Q&A sections filled with bonus information and helpful tips Try This--Hands-on exercises that show

how to apply your skills Notes--Extra information related to the topic being covered Self-Tests--Chapter-ending quizzes to test your knowledge Annotated Syntax--Example code with commentary that describes the programming techniques being illustrated Database Administration, Second Edition , is the definitive, technology-independent guide to the modern discipline of database administration. Packed with best practices and proven solutions for any database platform or environment, this text fully reflects the field's latest realities and challenges. Drawing on more than thirty years of database experience, Mullins focuses on problems that today's DBAs actually face, and skills and knowledge they simply must have. Mullins presents realistic, thorough, and up-to-date coverage of every DBA task, including creating database environments, data modeling, normalization, design, performance, data integrity, compliance, governance, security, backup/recovery, disaster planning, data and storage management, data movement/distribution, data warehousing, connectivity, metadata, tools, and more. This edition adds new coverage of "Big Data," database appliances, cloud computing, and NoSQL. Mullins includes an entirely new chapter on the DBA's role in regulatory compliance, with substantial new material on data breaches, auditing, encryption, retention, and metadata management. You'll also find an all-new glossary, plus up-to-the-minute DBA rules of thumb.

This beginner's guide to developing applications using Informix SQL and 4GL is designed for those with some programming experience, but little to moderate

experience with databases and/or Informix. It serves as a comprehensive, single-source tutorial on database design, Informix SQL, and Informix 4GL--showing developers how to design, create, maintain and write applications for a database system.

Geared toward designers and professionals interested in the conceptual aspects of integrity problems in different paradigms, Database Integrity: Challenges and Solutions successfully addresses these and a variety of other issues.

The Most Complete and Practical Guide to MySQL Version 5's Powerful SQL Dialect MySQL version 5 offers a SQL dialect with immense power. In SQL for MySQL Developers, Rick F. van der Lans helps you master this version ofSQL and take advantage of its full potential. Using case study examplesand hands-on exercises, van der Lans illuminates every key concept,technique, and statement–including advanced features that make iteasier to create even the most complex statements and programs. Drawing on decades of experience as an SQL standards team member and enterprise consultant, he reveals exactly why MySQL's dialect works as it does–and how to get the most out of it. You'll gain powerful insight into everything from basic queries to stored procedures, transactions to data security. Whether you're a programmer, Web developer, analyst, DBA, or database user, this book can take you from "apprentice" to true SQL expert. If you've used SQL in older versions of MySQL, you'll become dramatically more effective–and if you're migrating from other database platforms,

you'll gain practical mastery fast.

What is pgRouting? It's a PostgreSQL extension for developing network routing applications and doing graph analysis. This book will give you all the tools and information you need to get started with pgRouting, as well as complete code examples and even how to deploy your project to the web.

A reference and instructional guide to Microsoft's ActiveX Data Objects introduces the updated form of database communication to developers and Web programmers.

SQL (Structured Query Language), the heart of a relational database management system, is the language used to query the database, to create new tables in the database, to update and delete fields, and to set access privileges. Aimed at everyone who needs to access an Oracle database using SQL, including developers, DBAs, designers, and managers, this book delivers all the information they need to know about standard SQL, and Oracle's extensions to it.

Active database systems enhance traditional database functionality with powerful rule-processing capabilities, providing a uniform and efficient mechanism for many database system applications. Among these applications are integrity constraints, views, authorization, statistics gathering, monitoring and alerting, knowledge-based systems, expert systems, and workflow management. This significant collection focuses on the most prominent research projects in active database systems. The project leaders for each prototype system provide detailed discussions of their projects and the relevance

of their results to the future of active database systems. Features: A broad overview of current active database systems and how they can be extended and improved A comprehensive introduction to the core topics of the field, including its motivation and history Coverage of active database (trigger) capabilities in commercial products Discussion of forthcoming standards

This tutorial describes the Structured Query Language (SQL) as it is implemented by Informix products. It shows how to create, manage, and use relational databases with Informix software tools. Shows how to make simple and advanced queries to fetch and display database data; how to refine and optimize queries and use the query Optimizer; how to use statements to insert, delete, or update data; how to maintain data integrity and security; how to call the database server, retrieve rows, and embed data; how to build an efficient data model, step-by-step; and how to best set up a database to work over a network. For those who use computers in their daily work, and who have access to an INFORMIX-OnLine or INFORMIX-SE data server and an Informix application development tool, such as INFORMIX-SQL, INFORMIX-4GL, or DB-Access.

A thorough reference on database administration outlines a variety of DBA roles and responsibilities and discusses such topics as data modeling and normalization, database/application design, change management, database security and data integrity, performance issues, disaster planning, and other essentials. Original. (Advanced)

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