Types of Databases

Relational / SQL Database

- MySQL
- Oracle
- Microsoft SQL Server
- PostgreSQL

- Relationship & referential integrity
- Structured data
- SQL Support
- Transactions & ACID properties
- Indexing & Optimization
- Security Features

Time-series Database

- InfluxDB
- Timescale DB
- Graphite
- Prometheus

- High-write & query performance
- Data Compression
- Time-based data retention policies
- Built-in time-series functions
- Scalability

NoSQL Database

- MongoDB
- Cassandra
- Redis
- Couchbase

- Document-based
- Column-based
- Key-value
- Graph-database
- Distributed Arch.
- Concurrency Ctrl
- SQL Compatibility

Advanced NoSQL → NewSQL

Data Base

Jesse M. Draper

Data Base:

Introduction to Database Management System Satinder Bal Gupta,   Concepts of Database Management Philip Pratt,Joseph Adamski,2008 Extensively covers SQL with numerous examples illustrating the various concepts Advanced topics such as concurrency issues distributed databases data warehouses stored procedures triggers XML and database processing over the Web are included BOOK COVER   **Wiley Pathways Introduction to Database Management** Mark L. Gillenson,Paulraj Ponniah,Alex Kriegel,Boris M. Trukhnov,Allen G. Taylor,Gavin Powell,2012-04-13 Introduction to Databases walks learners through databases SQL language database management systems as well as illustrates how to recognize critical business information design a database and retrieve and modify information in a useful manner   **A First Course in Database Systems** Jeffrey D. Ullman,Jennifer Widom,2002 Written by well known computer scientists this accessible and succinct introduction to database systems focuses on database design and use Provides a more extensive treatment of query processing than other books on the market The authors provide in depth coverage of databases from the point of view of the database designer user and application programmer It covers the latest database standards SQL 1999 SQL PSM SQL CLI JDBC ODL and XML with broader coverage of SQL than most other books Now includes coverage of the technologies used to connect database programming with C or Java code SWL PSM SQL CLI and JDBC For database systems and database design and application professionals   Database System Concepts Abraham Silberschatz,Henry F. Korth,S. Sudarshan,1997 This acclaimed revision of a classic database systems text offers a complete background in the basics of database design languages and system implementation It provides the latest information combined with real world examples to help readers master concepts All concepts are presented in a technically complete yet easy to understand style with notations kept to a minimum A running example of a bank enterprise illustrates concepts at work To further optimize comprehension figures and examples rather than proofs portray concepts and anticipate results   *Stating the Obvious, and Other Database Writings* C. J. Date, Some things seem so obvious that they don t need to be spelled out in detail Or do they In computing at least and probably in any discipline where accuracy and precision are important it can be quite dangerous just to assume that some given concept is obvious and indeed universally understood Serious mistakes can happen that way The first part of this book discusses features of the database field equality assignment naming where just such an assumption seems to have been made and it describes some of the unfortunate mistakes that have occurred as a consequence It also explains how and why the features in question aren t quite as obvious as they might seem and it offers some advice on how to work around the problems caused by assumptions to the contrary Other parts of the book also deal with database issues where devoting some preliminary effort to spelling out exactly what the issues in question entailed could have led to much better interfaces and much more carefully designed languages The issues discussed include redundancy and indeterminacy persistence encapsulation and decapsulation the ACID properties of transactions and types vs units of measure Finally the

book also contains a detailed deconstruction of and response to various recent pronouncements from the database literature all of them having to do with relational technology Once again the opinions expressed in those pronouncements might seem obvious to some people to the writers at least presumably but the fact remains that they re misleading at best and in most cases just flat out wrong *Six-Step Relational Database Design(tm)* Fidel A. Captain,2012-04 This edition WILL BE DISCONTINUED December 1 2013 There is a Second Edition of this book out that contains a new chapter on implementation This book is dedicated to structuring and simplifying the database design process outlining a simple but reliable six step process for accurately modelling user data leading to a sturdy and reliable relational database It starts with a statement of the problem by the client and goes through the six steps necessary to create a reliable and accurate data model of the client s business requirements Three case studies are used throughout the book to guide the user through the six steps illustrating the six step relational database design technique At each stage the technique is explained in detail using the case studies as examples of how to implement the process for that stage of the technique This book should be used as a handbook for students and professionals in the software development field Students can use it as a technique for quickly developing relational databases for their applications and professionals can use it as a technique for developing sturdy reliable and accurate relational database models for their software applications **Costs and Benefits of Database Management** Jesse M. Draper,1981 Visual Basic 6 Database Programming For Dummies Richard Mansfield,1999-09-27 While previous versions of Visual Basic had some database facilities with Visual Basic 6 Microsoft has created a robust fully fledged database programming language VB6 includes a raft of highly effective database features and toolsincluding hundreds of efficiencies step through wizards and shortcutsthat in most cases are extremely easy to understand and master Among the most important of these are ADO Data Control Data View window Query Designer DataRepeater Control Data Environment Designer ActiveX Document Migration Wizard WebClass Designer and Visual Data Manager Visual Basic 6 Database Programming For Dummies is a friendly no nonsense guide for programmers already familiar with Visual Basic who want to take advantage of all of version 6s powerful database features Packed with real world examples and plain English explanations it cuts through the jargon and shows you step by step how to Build professional looking database programs Craft user friendly interfaces and robust reports Automate programming with built in tools Maximize Internet connectivity with ActiveX Develop ASP and IIS applications Transitions from DAO to ADO Understand how best to use all of VBs built in database features Get the most out of VBs Data Environment Designer Know ho to use SQL Author Richard Mansfield gives you a solid understanding of what databases are how they work and what you can do with them Then he walks you through all the steps to creating powerful database applications Topics covered include Getting connected with data controls and the Data Form Wizard Using the Data Environment Designer Designing a user interface Building a new database from scratch Translating Windows applications to Web pages using ActiveX Document Migration Wizard Combining HTML and VB to

create active server pages Creating IIS applications Data access programming Using the Query Designer Have you been baffled by the alphabet soup of VB6 acronyms Have you tried other books on the subject and found them sourly lacking in clarity Dont despair relax and let Visual Basic 6 Database Programming For Dummies gently ease you into the world of database programming   Database Design & Management David Stamper,Wilson T. Price,1990 SUMMARY Introductory database course Disk contains database files based on case studies throughout text Files formatted for dBase IV and Paradox Disk provides practice in querying a database and hands on experience with QBE and SQL   *An Introduction to Database Systems* C. J. Date,1995-01 This text is intended for undergraduates on courses in database technology   *The Database Experts' Guide to SQL* Frank Lusardi,1988   **Concepts of Database Management** Lisa Friedrichsen,Lisa Ruffolo,Philip J. Pratt,Ellen Monk,2020-03-23 Strengthen your understanding of database management today with the thorough hands on presentation found in CONCEPTS OF DATABASE MANAGEMENT 10th Edition Real cases practical examples helpful screenshots and concise explanations help clarify concepts such as database design data integrity normalization concurrent updates data security and big data Completely updated content reflects Microsoft Access 2019 Office 365 standards and SQL Server 2019 while exploring SQL in a database neutral environment Detailed coverage presents the relational model including QBE and SQL normalization and views as well as database administration and management You also examine advanced topics such as distributed databases data warehouses stored procedures triggers data macros and Web Apps Completely redesigned MindTap digital resources provide step by step practice using Access 2019 with instant feedback Trust this contemporary introduction to help you master today s database techniques to advance your career in any field   **Database Systems: Design, Implementation, & Management, Loose-Leaf Version** Carlos Coronel,Steven Morris,2026   *Beginning Visual Basic 2005 Databases* Thearon Willis,2005-11-11 As one of the most popular programming languages in the world Visual Basic continues to expand on the functionality and flexibility of its framework This book explains how to use Visual Basic 2005 to write efficient database applications that can be used throughout an enterprise With this teaching tool you ll learn how to use queries views and stored procedures to efficiently access and manipulate data from your applications You ll get a firm grasp on using ADO NET as well as OleDb SQL and Oracle to access specific databases Plus hands on examples and try it out exercises help you put your reading into practice so that with each chapter you ll gradually build the pieces of a single application What you will learn from this book How ADO NET continues to evolve as a building block for accessing and manipulating data in relational databases Ways to encrypt and decrypt data hash passwords and further secure access to your data Techniques for accessing your Web Service from both Windows r and Web applications Best practices for using business logic and data access components to produce report data or update data in your back end databases Who this book is for This book is for developers who want to learn to write database applications and back end databases such as Microsoft r Access Microsoft r SQL Server and Oracle r Some experience with Visual Basic

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