

## Beginning Database Design From Novice To Professional 2nd Edition Book

Beginning SQL Server 2008 for Developers is the starting-point in the Apress roadmap of titles for developers who wish to base their projects upon Microsoft's flagship database management system. The book takes developers from the point of installing SQL Server 2008, through the process of storing, retrieving, and securing data, to the point of being able to serve up business reports using SQL Server 2008 Reporting Services. The author has been hooked on programming ever since he bought his first computer, a Sinclair ZX80, in 1980. He maintains visibility in the field through his website and his other books.

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\*The most updated PostgreSQL book on the market, covering version 8.0 \*Highlights the most popular PostgreSQL APIs, including C, Perl, PHP, and Java \*This is two books in one; it simultaneously covers key relational database design principles, while teaching PostgreSQL

Beginning Database DesignFrom Novice to ProfessionalApress

Get started in web development using PHP. Even if you've never programmed before, author Jason Lengstorf introduces you to PHP by building a PHP-based blogging site while covering all the good coding practices and skills that you'll need when you start your own projects. Create web content with version 5.3 of PHP Learn good coding practices from the very beginning Learn how systems like WordPress work Jason Lengstorf takes a practical approach to teaching you how to build a content management system. You'll dive into writing web applications and be guided by the author's supportive explanations, rather than learning elements of the PHP language and viewing examples after. PHP for Absolute Beginners starts slowly and covers everything you need to know about beginning web development using PHP. Even the most inexperienced web developer will find this book accessible.

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Pro Python System Administration, Second Edition explains and shows how to apply Python scripting in practice. It will show you how to approach and resolve real-world issues that most system administrators will come across in their careers. This book has been updated using Python 2.7 and Python 3 where appropriate. It also uses various new and relevant open source projects and tools that should now be used in practice. In this updated edition, you will find several projects in the categories of network administration, web server administration, and monitoring and database management. In each project, the author will define the problem, design the solution, and go through the more interesting implementation steps. Each project is accompanied by the source code of a fully working prototype, which you'll be able to use immediately or adapt to your requirements and environment. This book is primarily aimed at experienced system administrators whose day-to-day tasks involve looking after and managing small-to-medium-sized server estates. It will also be beneficial for system administrators who want to learn more about automation and want to apply their Python knowledge to solve various system administration problems. Python developers will also benefit from reading this book, especially if they are involved in developing automation and management tools.

\* Shows how to take advantage of MySQL's built-in functions, minimizing the need to process data once it's been retrieved from the database. \* Demonstrates how to write and use advanced and complex queries to cut down on (middleware) application logic, including nested sub-queries and virtual tables (added since MySQL 4.1). \* Points out database design do's and don'ts, including many real-world examples of bad database designs and how the databases were subsequently improved. \* Includes a review of MySQL fundamentals and essential theory, such as naming conventions and connections, for quick reference purposes.

Beginning Database Design, Second Edition provides short, easy-to-read explanations of how to get database design right the first time. This book offers numerous examples to help you avoid the many pitfalls that entrap new and not-so-new database designers. Through the help of use cases and class diagrams modeled in the UML, you'll learn to discover and represent the details and scope of any design problem you choose to attack. Database design is not an exact science. Many are surprised to find that problems with their databases are caused by poor design rather than by difficulties in using the database management software. Beginning Database Design, Second Edition helps you ask and answer important questions about your data so you can understand the problem you are trying to solve and create a pragmatic design capturing the essentials while leaving the door open for refinements and extension at a later stage. Solid database design principles and examples help demonstrate the consequences of simplifications and pragmatic decisions. The rationale is to try to keep a design simple, but allow room for development as situations change or resources permit. Provides solid design principles by which to avoid pitfalls and support changing needs Includes numerous examples of good and bad design decisions and their consequences Shows a modern method for documenting design using the Unified Modeling Language What you'll learn Avoid the most common pitfalls in database design. Create clear use cases from project requirements. Design a data model to support the use cases. Apply generalization and specialization appropriately. Secure future flexibility through a normalized design. Ensure integrity through relationships, keys, and constraints. Successfully implement your data model as a relational schema. Who this book is for Beginning Database Design, Second Edition is aimed at desktop power users, developers, database administrators, and others who are charged with caring for data and storing it in ways that preserve its meaning and integrity. Desktop users will appreciate the coverage of Excel as a plausible "database" for research systems and lab environments. Developers and database designers will find insight from the clear discussions of design approaches and their pitfalls and benefits. All readers will benefit from learning a modern notation for documenting designs that is based upon the widely used and accepted Universal Modeling Language. Table of Contents What Can Go Wrong? Guided Tour of the Development Process Initial Requirements and Use Cases Learning from the Data Model Developing a Data Model Generalization and Specialization From Data Model to Relational Schema Normalization More on Keys and Constraints Queries User Interface Other Implementations

The problem of how to design a database is commonly encountered by those not specifically trained and practiced in the art. This book, therefore, is written with the lay person in mind. In simple language, the author uses examples from her real-life experience to highlight the types of problems that can result from poor design, to motivate readers to do good design. She then goes on to provide a sound method that readers can follow in order to produce a good design. While focus is on implementing designs in relational databases, the author does not forget those readers who will choose to implement their database in a spreadsheet such as Microsoft Excel.

Courses in computer programming combine a number of different concepts, from general problem-solving to mathematical precepts such as algorithms and computational intelligence. Due to



