

The
Pragmatic
Programmers

SQL Antipatterns, Volume 1

Avoiding the Pitfalls of Database
Programming



Bill Karwin
edited by Jacquelyn Carter

Sql Antipatterns Bill Karwin

Lingsheng Yao



Sql Antipatterns Bill Karwin:

SQL Antipatterns, Volume 1 Bill Karwin, 2022-10-24 SQL is the ubiquitous language for software developers working with structured data. Most developers who rely on SQL are experts in their favorite language such as Java, Python, or Go, but they are not experts in SQL. They often depend on antipatterns—solutions that look right but become increasingly painful to work with as you uncover their hidden costs. Learn to identify and avoid many of these common blunders. Refactor an inherited nightmare into a data model that really works. Updated for the current versions of MySQL and Python, this new edition adds a dozen brand-new mini antipatterns for quick wins. No matter which platform, framework, or language you use, the database is the foundation of your application, and the SQL database language is the standard for working with it. Antipatterns are solutions that look simple at the surface but soon mire you down with needless work. Learn to identify these traps and craft better solutions for the often-asked questions in this book. Avoid the mistakes that lead to poor performance and quality, and master the principles that make SQL a powerful and flexible tool for handling data and logic. Dive deep into SQL and database design and learn to recognize the most common missteps made by software developers in database modeling, SQL query logic, and code design of data-driven applications. See practical examples of misconceptions about SQL that can lure software projects astray. Find the greatest value in each group of data. Understand why an intersection table may be your new best friend. Store passwords securely and don't reinvent the wheel. Handle NULL values like a pro. Defend your web applications against the security weakness of SQL injection. Use SQL the right way; it can save you from headaches and needless work and let your application really shine. What You Need: The SQL examples use the MySQL 8.0 flavor, but other popular brands of RDBMS are mentioned. Other code examples use Python 3.9 or Ruby 2.7.

SQL Antipatterns Bill Karwin, 2010-06-25 Bill Karwin has helped thousands of people write better SQL and build stronger relational databases. Now he's sharing his collection of antipatterns—the most common errors he's identified in those thousands of requests for help. Most developers aren't SQL experts, and most of the SQL that gets used is inefficient, hard to maintain, and sometimes just plain wrong. This book shows you all the common mistakes and then leads you through the best fixes. What's more, it shows you what's behind these fixes, so you'll learn a lot about relational databases along the way. Each chapter in this book helps you identify, explain, and correct a unique and dangerous antipattern. The four parts of the book group the antipatterns in terms of logical database design, physical database design, queries, and application development. The chances are good that your application's database layer already contains problems such as Index Shotgun, Keyless Entry, Fear of the Unknown, and Spaghetti Query. This book will help you and your team find them. Even better, it will also show you how to fix them and how to avoid these and other problems in the future. SQL Antipatterns gives you a rare glimpse into an SQL expert's playbook. Now you can stamp out these common database errors once and for all. Whatever platform or programming language you use, whether you're a junior programmer or a Ph.D., SQL Antipatterns will show you how to design and build databases, how to

write better database queries and how to integrate SQL programming with your application like an expert You ll also learn the best and most current technology for full text search how to design code that is resistant to SQL injection attacks and other techniques for success

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Beyond Databases, Architectures and Structures. Facing the Challenges of Data Proliferation and Growing Variety Stanisław Kozielski,Dariusz Mrozek,Paweł Kasproski,Bożena Małysiak-Mrozek,Daniel Kostrzewa,2018-09-07 This book constitutes the refereed proceedings of the 14th International Conference entitled Beyond Databases Architectures and Structures BDAS 2018 held in Pozna Poland in September 2018 during the IFIP World Computer Congress It consists of 38 carefully reviewed papers selected from 102 submissions The papers are organized in topical sections namely big data and cloud computing architectures structures and algorithms for efficient data processing artificial intelligence data mining and knowledge discovery text mining natural language processing ontologies and semantic web image analysis and multimedia mining

Java Persistence with Spring Data and Hibernate Catalin Tudose,Christian Bauer (Computer scientist),Gavin King,2023-02-28 Java Persistence with Spring Data

and Hibernate teaches you the ins and outs of Java persistence with hands on examples using Spring Data JPA and Hibernate The book carefully analyzes the capabilities of the major Java persistence tools and guides you through the most common use cases By comparing and contrasting the alternatives you ll find it easy to choose the right tool choice for your applications You ll learn how to make and utilize mapping strategies about the different approach to transactions for both Hibernate and Spring Data and even how to efficiently test Java persistence applications The practical techniques are demonstrated with both relational and non relational databases

Seven Languages in Seven Weeks Bruce Tate,2010-11-10 You should learn a programming language every year as recommended by The Pragmatic Programmer But if one per year is good how about Seven Languages in Seven Weeks In this book you ll get a hands on tour of Clojure Haskell Io Prolog Scala Erlang and Ruby Whether or not your favorite language is on that list you ll broaden your perspective of programming by examining these languages side by side You ll learn something new from each and best of all you ll learn how to learn a language quickly Ruby Io Prolog Scala Erlang Clojure Haskell With Seven Languages in Seven Weeks by Bruce A Tate you ll go beyond the syntax and beyond the 20 minute tutorial you ll find someplace online This book has an audacious goal to present a meaningful exploration of seven languages within a single book Rather than serve as a complete reference or installation guide Seven Languages hits what s essential and unique about each language Moreover this approach will help teach you how to grok new languages For each language you ll solve a nontrivial problem using techniques that show off the language s most important features As the book proceeds you ll discover the strengths and weaknesses of the languages while dissecting the process of learning languages quickly for example finding the typing and programming models decision structures and how you interact with them Among this group of seven you ll explore the most critical programming models of our time Learn the dynamic typing that makes Ruby Python and Perl so flexible and compelling Understand the underlying prototype system that s at the heart of JavaScript See how pattern matching in Prolog shaped the development of Scala and Erlang Discover how pure functional programming in Haskell is different from the Lisp family of languages including Clojure Explore the concurrency techniques that are quickly becoming the backbone of a new generation of Internet applications Find out how to use Erlang s let it crash philosophy for building fault tolerant systems Understand the actor model that drives concurrency design in Io and Scala Learn how Clojure uses versioning to solve some of the most difficult concurrency problems It s all here all in one place Use the concepts from one language to find creative solutions in another or discover a language that may become one of your favorites

Mastering the Interview: 80 Essential Questions for Software Engineers Manjunath.R,2023-05-19 The Software Engineer s Guide to Acing Interviews Software Interview Questions You ll Most Likely Be Asked Mastering the Interview 80 Essential Questions for Software Engineers is a comprehensive guide designed to help software engineers excel in job interviews and secure their dream positions in the highly competitive tech industry This book is an invaluable resource for both entry level and experienced software engineers who want to master the art of interview

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SQL AntiPatterns □□□,2011-06-27 **Refactoring Legacy T-SQL for Improved Performance** Lisa Böhm,2020 Breathe new life into older applications by refactoring T SQL queries and code using modern techniques This book shows you how to significantly improve the performance of older applications by finding common anti patterns in T SQL code then rewriting those anti patterns using new functionality that is supported in current versions of SQL Server including SQL Server 2019 The focus moves through the different types of database objects and the code used to create them discussing the limitations and anti patterns commonly found for each object type in your database Legacy code isn t just found in queries and external applications It s also found in the definitions of underlying database objects such as views and tables This book helps you quickly find problematic code throughout the database and points out where and how modern solutions can replace older code thereby making your legacy applications run faster and extending their lifetimes Author Lisa Bohm explains the logic behind each anti pattern helping you understand why each pattern is a problem and showing how it can be avoided Good coding habits are discussed including guidance on topics such as readability and maintainability What You Will Learn Find specific areas in code to target for performance gains Identify pain points quickly and understand why they are problematic Rewrite legacy T SQL to reduce or eliminate hidden performance issues Write modern code with an awareness of readability and maintainability Recognize and correlate T SQL anti patterns with techniques for better solutions Make a positive impact on application user experience in your organization Who This Book Is For Database administrators or developers who maintain older code those frustrated with complaints about slow code when there is so much of it to fix and

those who want a head start in making a positive impact on application user experience in their organization Refactoring Legacy T-SQL for Improved Performance Lisa Bohm,2020-01-10 Breathe new life into older applications by refactoring T SQL queries and code using modern techniques This book shows you how to significantly improve the performance of older applications by finding common anti patterns in T SQL code then rewriting those anti patterns using new functionality that is supported in current versions of SQL Server including SQL Server 2019 The focus moves through the different types of database objects and the code used to create them discussing the limitations and anti patterns commonly found for each object type in your database Legacy code isn t just found in queries and external applications It s also found in the definitions of underlying database objects such as views and tables This book helps you quickly find problematic code throughout the database and points out where and how modern solutions can replace older code thereby making your legacy applications run faster and extending their lifetimes Author Lisa Bohm explains the logic behind each anti pattern helping you understand why each pattern is a problem and showing how it can be avoided Good coding habits are discussed including guidance on topics such as readability and maintainability What You Will Learn Find specific areas in code to target for performance gains Identify pain points quickly and understand why they are problematic Rewrite legacy T SQL to reduce or eliminate hidden performance issues Write modern code with an awareness of readability and maintainability Recognize and correlate T SQL anti patterns with techniques for better solutions Make a positive impact on application user experience in your organization Who This Book Is For Database administrators or developers who maintain older code those frustrated with complaints about slow codewhen there is so much of it to fix and those who want a head start in making a positive impact on application user experience in their organization SQL antipatterns ,2023 **SQL**□□□□□□□□ □□□□□□□□,2013-01-25 4 NULL SQL MVC

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