

The
Pragmatic
Programmers

SQL Antipatterns, Volume 1

Avoiding the Pitfalls of Database
Programming



Bill Karwin

edited by Jacquelyn Carter

Sql Antipatterns Bill Karwin

Lisa Bohm



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

SQL Antipatterns Bill Karwin,2010 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

SQL Antipatterns Bill Karwin,2022 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're 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

Beyond Databases, Architectures and Structures. Facing the Challenges of Data Proliferation and Growing Variety Stanisław Kozielski,Dariusz Mrozek,Paweł Kasprowski,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 Poznań 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 preparation This book provides a carefully curated selection of 80 essential questions that are commonly asked during software engineering interviews Each question is thoughtfully crafted to assess the candidate s technical knowledge problem solving abilities and overall suitability for the role This book goes beyond just providing a list of questions It offers in depth explanations detailed sample answers and insightful tips on how to approach each question with confidence and clarity The goal is to equip software engineers with the skills and knowledge necessary to impress interviewers and stand out from the competition Mastering the Interview 80 Essential Questions for Software Engineers is an indispensable guide that empowers software engineers to navigate the interview process with confidence enhance their technical prowess and secure the job offers they desire Whether you are a seasoned professional or a recent graduate this book will significantly improve your chances of acing software engineering interviews and advancing your career in the ever evolving world of technology

From Objects to Functions Uberto Barbini,2023-09-12 Build applications quicker and with less effort using functional programming and Kotlin Learn by building a complete application from gathering requirements to delivering a microservice architecture following functional programming principles Learn how to implement CQRS and EventSourcing in a functional way to map the domain into code better and to keep the cost of change low for the whole application life cycle If you re curious about functional programming or you are struggling with how to put it into practice this guide will help you increase your productivity composing small functions together instead of creating fat objects Switching to the functional paradigm isn t easy when you re used to object oriented programming You need more than just lambdas and mapping over collections to get a declarative style and disentangle the state from the computations Use transformations and compositions to help you write less code with better results Boost your productivity and harness the power of functional programming by creating real world applications rather than focusing on theoretical concepts Work through a series of short exercises to find and compose pure functions and create data structures that work like algebra Get rid of mutable state in your software to eliminate the main source of bugs Apply CQRS and EventSourcing patterns to translate stakeholder requirements into functional design and then into code See how Kotlin s easy to learn syntax and functional friendly approach make it a great option for a pragmatic language that integrates well with existing Java code and libraries Leverage functional programming to build and deliver robust applications in less time and with fewer defects What You Need The code in this book is designed to allow you to build your application from scratch on Windows Mac and Linux You will need a recent IDE we recommend IntelliJ Community Edition and Kotlin 1 3 x or later

C, C++, Java, Python, PHP, JavaScript and Linux For Beginners Manjunath.R,2020-04-13 An Introduction to Programming Languages and Operating Systems for Novice Coders An ideal addition to your personal elibrary With the aid of this indispensable reference book you may quickly gain a grasp of Python Java JavaScript C C CSS Data Science HTML LINUX and PHP It can be challenging to understand the programming language s distinctive advantages and charms Many programmers who are

familiar with a variety of languages frequently approach them from a constrained perspective rather than enjoying their full expressivity Some programmers incorrectly use Programmatic features which can later result in serious issues The programmatic method of writing programs the ideal approach to use programming languages is explained in this book This book is for all programmers whether you are a novice or an experienced pro Its numerous examples and well paced discussions will be especially beneficial for beginners Those who are already familiar with programming will probably gain more from this book of course I want you to be prepared to use programming to make a big difference C C Java Python PHP JavaScript and Linux For Beginners is a comprehensive guide to programming languages and operating systems for those who are new to the world of coding This easy to follow book is designed to help readers learn the basics of programming and Linux operating system and to gain confidence in their coding abilities With clear and concise explanations readers will be introduced to the fundamental concepts of programming languages such as C C Java Python PHP and JavaScript as well as the basics of the Linux operating system The book offers step by step guidance on how to write and execute code along with practical exercises that help reinforce learning Whether you are a student or a professional C C Java Python PHP JavaScript and Linux For Beginners provides a solid foundation in programming and operating systems By the end of this book readers will have a solid understanding of the core concepts of programming and Linux and will be equipped with the knowledge and skills to continue learning and exploring the exciting world of coding

SQL AntiPatterns [O'Reilly], 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 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 [SQL antipatterns](#) ,2023

SQL ,2013-01-25 4 NULL SQL MVC

Unveiling the Magic of Words: A Overview of "**Sql Antipatterns Bill Karwin**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Sql Antipatterns Bill Karwin**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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