

The
Pragmatic
Programmers

SQL Antipatterns, Volume 1

Avoiding the Pitfalls of Database
Programming



Bill Karwin
edited by Jacquelyn Carter

Sql Antipatterns Avoiding The Pitfalls Of Database Programming

Mohanraju Muppala



Sql Antipatterns Avoiding The Pitfalls Of Database Programming:

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,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

SQL Antipatterns Bill Karwin,2010 Bill Karwin has helped thousands of people write better SQL and buildstronger 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

Innovations and Advances in Computing, Informatics, Systems Sciences, Networking and Engineering Tarek Sobh,Khaled Elleithy,2014-11-07 Innovations and Advances in Computing Informatics Systems Sciences Networking and Engineering This book includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Informatics and Systems Sciences and Engineering It includes selected papers from the conference proceedings of the Eighth and some selected papers of the Ninth International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2012 Includes chapters in the most advanced areas of Computing Informatics Systems Sciences and Engineering Accessible to a wide range of readership including professors researchers practitioners and students

Software Engineering Perspectives in Systems Radek Silhavy,2022-07-16 The study of software engineering and its

applications to system engineering is critical in computer science research Modern research methodologies as well as the use of machine and statistical learning in software engineering research are covered in this book This book contains the refereed proceedings of the Software Engineering Perspectives in Systems part of the 11th Computer Science On line Conference 2022 CSOC 2022 which was held in April 2022 online **Software Engineering and Algorithms** Radek Silhavy,2021-07-19 This book constitutes the refereed proceedings of the Software Engineering and Algorithms section of the 10th Computer Science On line Conference 2021 CSOC 2021 held on line in April 2021 Software engineering research and its applications to intelligent algorithms take an essential role in computer science research In this book modern research methods application of machine and statistical learning in the software engineering research are presented **SQL Database Mastery: Relational Architectures, Optimization Techniques, and Cloud-Based Applications** Mohanraju Muppala,2025-07-27 SQL remains at the core of modern data management powering mission critical systems across industries This book SQL Database Mastery Architecture Optimization and Real World Applications bridges foundational concepts with advanced techniques to help readers design optimize and manage relational databases effectively Drawing from years of practical experience in marine IT and enterprise systems this book combines technical depth with hands on relevance Topics range from relational theory indexing and normalization to cloud SQL platforms dynamic queries and performance tuning Real world use cases and best practices are included to ensure practical application of each concept Whether you re a student developer or database architect this guide aims to support your journey toward mastering SQL in today s data driven world I am grateful to my peers in the field of Marine IT Technology and AI based data systems who have inspired and supported the development of this book I hope it serves as a valuable guide in your journey toward mastering the architecture and optimization of relational databases in an era where data is more critical than ever **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 **SQL Primer** Rahul Batra,2018-06-15 Build a core level of competency in SQL so you can recognize the parts of queries and write simple SQL statements SQL knowledge is essential for anyone involved in programming data science and data management This book covers features of SQL that are standardized and common across most database vendors You will gain a base of knowledge that will prepare you to go deeper into the specifics of any database product you might encounter Examples in the book are worked in PostgreSQL and

SQLite but the bulk of the examples are platform agnostic and will work on any database platform supporting SQL Early in the book you learn about table design the importance of keys as row identifiers and essential query operations You then move into more advanced topics such as grouping and summarizing creating calculated fields joining data from multiple tables when it makes business sense to do so and more Throughout the book you are exposed to a set based approach to the language and are provided a good grounding in subtle but important topics such as the effects of null value on query results With the explosion of data science SQL has regained its prominence as a top skill to have for technologists and decision makers worldwide SQL Primer will guide you from the very basics of SQL through to the mainstream features you need to have a solid working knowledge of this important data oriented language What You ll Learn Create and populate your own database tables Read SQL queries and understand what they are doing Execute queries that get correct results Bring together related rows from multiple tables Group and sort data in support of reporting applications Get a grip on nulls normalization and other key concepts Employ subqueries unions and other advanced features Who This Book Is For Anyone new to SQL who is looking for step by step guidance toward understanding and writing SQL queries The book is aimed at those who encounter SQL statements often in their work and provides a sound baseline useful across all SQL database systems Programmers database managers data scientists and business analysts all can benefit from the baseline of SQL knowledge provided in this book *Software Engineering Research in System Science* Radek Silhavy,Petr

Silhavy,2023-07-08 The latest advancements in software engineering are featured in this book which contains the refereed proceedings of the part of the 12th Computer Science Online Conference 2023 CSOC 2023 held online in April 2023 The software engineering research in system science session is focusing on the importance of software engineering in the field of system science This section provides a platform for researchers to share their insights on modern research methodologies machine learning and statistical learning techniques in software engineering research The session provides a unique opportunity for researchers and industry experts to explore the latest trends in software engineering and inspire future research directions This session brings together experts from different fields to present their research and discuss the latest challenges and opportunities One of the key themes of this session is the application of artificial intelligence in software engineering Researchers are exploring how techniques can be used to automate various aspects of software engineering such as testing debugging and maintenance This helps improve the quality and efficiency of software development processes

Java Persistence with Hibernate Gary Gregory,Christian Bauer,2015-10-27 Summary Java Persistence with Hibernate Second Edition explores Hibernate by developing an application that ties together hundreds of individual examples In this revised edition authors Christian Bauer Gavin King and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2 1 standard JSR 338 All examples have been updated for the latest Hibernate and Java EE specification versions About the Technology Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications

Persistence the ability of data to outlive an instance of a program is central to modern applications Hibernate the most popular Java persistence tool offers automatic and transparent object relational mapping making it a snap to work with SQL databases in Java applications About the Book Java Persistence with Hibernate Second Edition explores Hibernate by developing an application that ties together hundreds of individual examples You ll immediately dig into the rich programming model of Hibernate working through mappings queries fetching strategies transactions conversations caching and more Along the way you ll find a well illustrated discussion of best practices in database design and optimization techniques In this revised edition authors Christian Bauer Gavin King and Gary Gregory cover Hibernate 5 in detail with the Java Persistence 2.1 standard JSR 338 All examples have been updated for the latest Hibernate and Java EE specification versions What s Inside Object relational mapping concepts Efficient database application design Comprehensive Hibernate and Java Persistence reference Integration of Java Persistence with EJB CDI JSF and JAX-RS Unmatched breadth and depth About the Reader The book assumes a working knowledge of Java About the Authors Christian Bauer is a member of the Hibernate developer team and a trainer and consultant Gavin King is the founder of the Hibernate project and a member of the Java Persistence expert group JSR 220 Gary Gregory is a principal software engineer working on application servers and legacy integration Table of Contents PART 1 GETTING STARTED WITH ORM Understanding object relational persistence Starting a project Domain models and metadata PART 2 MAPPING STRATEGIES Mapping persistent classes Mapping value types Mapping inheritance Mapping collections and entity associations Advanced entity association mappings Complex and legacy schemas PART 3 TRANSACTIONAL DATA PROCESSING Managing data Transactions and concurrency Fetch plans strategies and profiles Filtering data PART 4 WRITING QUERIES Creating and executing queries The query languages Advanced query options Customizing SQL

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

Recent Advances in Information and Communication Technology 2015 Herwig Unger,Phayung Meesad,Sirapat Boonkrong,2015-06-14 This book presents recent research work and results in the area of communication and information technologies The book includes the main results of the 11th International Conference on Computing and Information Technology IC2IT held during July 2nd 3rd 2015 in Bangkok Thailand The book is divided into the two main parts Data Mining and Machine Learning as well as Data Network and Communications New algorithms and methods of data mining as discussed as well as innovative applications and state of the art technologies on data mining machine learning and data networking

Innovations and Advances in Computer, Information, Systems Sciences, and Engineering Khaled Elleithy,Tarek Sobh,2012-08-28 Innovations and Advances in Computer Information Systems Sciences and Engineering includes the proceedings of the International Joint Conferences on Computer Information and Systems Sciences and Engineering CISSE 2011 The contents of this book are a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Industrial Electronics Technology and Automation Telecommunications and Networking Systems Computing Sciences and Software Engineering Engineering Education Instructional Technology Assessment and E learning

Linux Commands, C, C++, Java and Python Exercises For Beginners Manjunath.R,2020-03-27 Hands On Practice for Learning Linux and Programming Languages from Scratch Are you new to Linux and programming Do you want to learn Linux commands and programming languages like C C Java and Python but don t know where to start Look no further An approachable manual for new and experienced programmers that introduces the programming languages C C Java and Python This book is for all programmers whether you are a novice or an experienced pro It is designed for an introductory course that provides beginning engineering and computer science students with a solid foundation in the fundamental concepts of computer programming In this comprehensive guide you will learn the essential Linux commands that every beginner should know as well as gain practical experience with programming exercises in C C Java and Python It also offers valuable perspectives on important computing concepts through the development of programming and problem solving skills using the languages C C Java and Python The

beginner will find its carefully paced exercises especially helpful. Of course those who are already familiar with programming are likely to derive more benefits from this book. After reading this book you will find yourself at a moderate level of expertise in C, C++, Java and Python from which you can take yourself to the next levels. The command line interface is one of the nearly all well built trademarks of Linux. There exists an ocean of Linux commands permitting you to do nearly everything you can be under the impression of doing on your Linux operating system. However this at the end of time creates a problem because of all of so copious commands accessible to manage you don't comprehend where and at which point to fly and learn them especially when you are a learner. If you are facing this problem and are peering for a painless method to begin your command line journey in Linux you've come to the right place as in this book we will launch you to a hold of well liked and helpful Linux commands. This book gives a thorough introduction to the C, C++, Java and Python programming languages covering everything from fundamentals to advanced concepts. It also includes various exercises that let you put what you learn to use in the real world. With step by step instructions and plenty of examples you'll build your knowledge and confidence in Linux and programming as you progress through the exercises. By the end of the book you'll have a solid foundation in Linux commands and programming concepts allowing you to take your skills to the next level. Whether you're a student aspiring programmer or curious hobbyist this book is the perfect resource to start your journey into the exciting world of Linux and programming.

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 library. 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

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

Computational Science and Its Applications - ICCSA 2018 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Elena Stankova,Carmelo M. Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Eufemia Tarantino,Yeonseung Ryu,2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality The total of 265 full papers and 10 short papers presented in the 5 volume proceedings set of ICCSA 2018 were carefully reviewed and selected from 892 submissions

Data Mining and Big Data Ying Tan,Yuhui Shi,2024-02-21 This two volume set CCIS 2017 and 2018 constitutes the 8th International Conference on Data Mining and Big Data DMBD 2023 held in Sanya China in December 2023 The 38 full papers presented in this two volume set included in this book were carefully reviewed and selected from 79 submissions The papers present the latest research on advantages in theories technologies and applications in data mining and big data The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science machine learning data mining and

knowledge discovery data science etc

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Table of Contents Sql Antipatterns Avoiding The Pitfalls Of Database Programming

1. Understanding the eBook Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - The Rise of Digital Reading Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Advantages of eBooks Over Traditional Books
2. Identifying Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Personalized Recommendations
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming User Reviews and Ratings
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming and Bestseller Lists
5. Accessing Sql Antipatterns Avoiding The Pitfalls Of Database Programming Free and Paid eBooks
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming Public Domain eBooks
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming eBook Subscription Services
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming Budget-Friendly Options
6. Navigating Sql Antipatterns Avoiding The Pitfalls Of Database Programming eBook Formats
 - ePub, PDF, MOBI, and More
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming Compatibility with Devices
 - Sql Antipatterns Avoiding The Pitfalls Of Database Programming Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Highlighting and Note-Taking Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Interactive Elements Sql Antipatterns Avoiding The Pitfalls Of Database Programming

8. Staying Engaged with Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sql Antipatterns Avoiding The Pitfalls Of Database Programming
9. Balancing eBooks and Physical Books Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sql Antipatterns Avoiding The Pitfalls Of Database Programming
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Setting Reading Goals Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Fact-Checking eBook Content of Sql Antipatterns Avoiding The Pitfalls Of Database Programming
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Sql Antipatterns Avoiding The Pitfalls Of Database Programming Introduction

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