# **SQL Database Repair**

Michael Widenius, David Axmark, MySQL AB

SQL Server 7 Anil Desai,2000 &Quot;SQL Server 7 Backup & Recovery is your one-stop resource for planning, developing, implementing, and managing backup and restore procedures. Learn to execute data protection strategies, implement a backup solution, and handle data recovery before potentially disastrous data loss occurs. You'll get details on the latest methods for increasing database uptime and improving performance. The case studies included show you how to apply the techniques described in the book in your own environment.--BOOK JACKET.

Database Repairing and Consistent Query Answering Leopoldo Bertossi, 2011 Integrity constraints are semantic conditions that a database should satisfy in order to be an appropriate model of external reality. In practice, and for many reasons, a database may not satisfy those integrity constraints, and for that reason it is said to be inconsistent. However, and most likely, a large portion of the database is still semantically correct, in a sense that has to be made precise. After having provided a formal characterization of consistent data in an inconsistent database, the natural problem emerges of extracting that semantically correct data, as query answers. The consistent data in an inconsistent database is usually characterized as the data that persists across all the database instances that are consistent and minimally differ from the inconsistent instance. Those are the socalled repairs of the database. In particular, the consistent answers to a query posed to the inconsistent database are those answers that can be simultaneously obtained from all the database repairs. As expected, the notion of repair requires an adequate notion of distance that allows for the comparison of databases with respect to how much they differ from the inconsistent instance. On this basis, the minimality condition on repairs can be properly formulated. In this monograph we present and discuss these fundamental concepts, different repair semantics, algorithms for computing consistent answers to queries, and also complexity-theoretic results related to the computation of repairs and doing consistent query answering. Table of Contents: Introduction / The Notions of Repair and Consistent Answer / Tractable CQA and Query Rewriting / Logically Specifying Repairs / Decision Problems in CQA: Complexity and Algorithms / Repairs and Data Cleaning

**SQL Backup and Recovery Joes 2 Pros**® Tim Radney,2012-10 Database administrators are expected to know certain skills extremely well. Two of those skills are making backups and performing restores. Radney's guide is designed to help the beginner and mid-level DBA to get a strong understanding of the types of backups available within SQL Server and how to restore each of those backups.

Beginning Backup and Restore for SQL Server Bradley Beard, 2018-06-19 Be guided through the techniques to back up and restore databases and files in SQL Server. Multiple techniques are presented for ensuring the integrity and consistency of database backups, as well as the reliability and manageability of restoring from backups. In today's data-driven world, the most important asset that a company has is its data. Data recovery strategies can be wide ranging; from the practically non-existent backup without verification to a very complex, distributed, and redundant system. An important objective for any database administrator is data loss prevention, and in a catastrophic data loss event, pre-defined data recovery techniques must be employed in order to get the databases back up and running efficiently and quickly. Using a tutorial method of teaching, Beginning Backup and Restore for SQL Server explores the many facets behind the principles of backing up and restoring data from your database, and then shows practical application methods for getting the work done quickly and correctly. This book is an essential guide toward discovering the correct path to protecting the data for your organization. What You'll Learn Be instructed on backup and restore techniques and principles Understand the importance of a fully implemented backup plan in SQL Server Agent Integrate backup and restore techniques into an existing environment Consider space and time requirements for backup and restore operations Master the principles for common deployment types Who This Book Is For Administrators who need to learn or refresh their knowledge of how to back up and restore SQL Server databases in various scenarios

**SQL Server 2000** Anil Desai,2001 Master the revolutionary new release of Microsoft's high-performance, scalable database management system. This complete reference explains installation, configuration, administration, replication, security, backup, and recovery. You'll also learn to exploit all the advanced features of SQL Server 2000, including the Enterprise Manager, TSQL, data warehousing, and OLAP services. --Publisher's description.

<u>SQL Server Backup and Restore</u> Shawn McGehee, 2012 A database administrator's duties include ensuring that a database can be restored and recovered in the event of error or disaster. This book discusses how to perform backup and restore operations using SQL Server Management Studio (SSMS), basic T-SQL scripts and Red Gate's SQL Backup tool. Capturing backups using SSMS or simple scripts is fine for one-off backup operations, but any backups that form part of the recovery strategy for any given database must be automated with some built-in checks that, for example, alert the responsible database administrator immediately if a problem arises. The tool of choice in this book for backup automation is Red Gate SQL Backup. Building an automated solution will take a lot of work, but this book offers some advice on possible options, such as PowerShell scripting, T-SQL scripts and SQL Server Agent jobs. --

**SQL Server 2005 Practical Troubleshooting** Ken Henderson, 2006-12-08 Never-Before-Published Insiders' Information for Troubleshooting SQL Server 2005. This is the definitive guide to troubleshooting the Microsoft SQL Server 2005 database engine, direct from the people who know it most intimately: the people who wrote it, designed it, and support it. SQL Server expert Ken Henderson, author of the best-selling Guru's Guides to SQL Server, has assembled a "dream team" of SQL Server developers and support engineers to provide in-depth troubleshooting and diagnostic information that has never been documented before: information that would be impossible to get without access to Microsoft's own source code. From caching to clustering, query processing to Service Broker, this book will help you address even the toughest problems with database engine operations. Each chapter begins with a brief architectural overview of a key SQL Server component, then drills down into the most common problems users encounter, offering specific guidance on investigating and resolving them. You'll find comprehensive, in-depth chapters on • Waiting and blocking • Data corruption and recovery • Memory • Procedure cache issues • Query processing • Server crashes and other critical failures • Service Broker • SQLOS and scheduling • tempdb • Clustering This is the indispensable resource for everyone who must keep SQL Server running smoothly: DBAs, database application developers, API programmers, and Web developers alike. Contents About the Authors ix Preface xii Acknowledgments xiv 1 Waiting and Blocking Issues 1 2 Data Corruption and Recovery Issues 47 3 Memory Issues 137 4 Procedure Cache Issues 183 5 Query Processor Issues 225 6 Server Crashes and Other Critical Failures 273 7 Service Broker Issues 331 8 SQLOS and Scheduling Issues 369 9 Tempdb Issues 411 10 Clustering Issues 425 The Aging Champion 441 Index 445

MySQL Reference Manual Michael Widenius, David Axmark, MySQL AB, 2002 This comprehensive reference guide offers

useful pointers for advanced use of SQL and describes the bugs and workarounds involved in compiling MySQL for every system.

**SQL Server 2017 Administration Inside Out** William Assaf, Randolph West, Sven Aelterman, Mindy Curnutt, 2018-02-26 Conquer SQL Server 2017 administration—from the inside out Dive into SQL Server 2017 administration—and really put your SQL Server DBA expertise to work. This supremely organized reference packs hundreds of timesaving solutions, tips, and workarounds—all you need to plan, implement, manage, and secure SQL Server 2017 in any production environment: on-premises, cloud, or hybrid. Four SQL Server experts offer a complete tour of DBA capabilities available in SQL Server 2017 Database Engine, SQL Server Data Tools, SQL Server Management Studio, and via PowerShell. Discover how experts tackle today's essential tasks—and challenge yourself to new levels of mastery. • Install, customize, and use SQL Server 2017's key administration and development tools • Manage memory, storage, clustering, virtualization, and other components • Architect and implement database infrastructure, including IaaS, Azure SQL, and hybrid cloud configurations • Provision SQL Server and Azure SQL databases • Secure SQL Server via encryption, row-level security, and data masking • Safeguard Azure SQL databases using platform threat protection, firewalling, and auditing • Establish SQL Server IaaS network security groups and user-defined routes • Administer SQL Server user security and permissions • Efficiently design tables using keys, data types, columns, partitioning, and views • Utilize BLOBs and external, temporal, and memory-optimized tables • Master powerful optimization techniques involving concurrency, indexing, parallelism, and execution plans • Plan, deploy, and perform disaster recovery in traditional, cloud, and hybrid environments For Experienced SQL Server Administrators and Other Database Professionals • Your role: Intermediate-to-advanced level SQL Server database administrator, architect, developer, or performance tuning expert • Prerequisites: Basic understanding of database administration procedures

SQL Server MVP Deep Dives, Volume 2 Kalen Delaney, Louis Davidson, Greg Low, Brad McGhee, Paul Nielson, Paul Randal, Kimberly Tripp, 64 MVP Authors, 2011-10-24 Summary SQL Server MVP Deep Dives, Volume 2 is a unique book that lets you learn from the best in the business - 64 SQL Server MVPs offer completely new content in this second volume on topics ranging from testing and policy management to integration services, reporting, and performance optimization techniques...and more. About this Book To become an MVP requires deep knowledge and impressive skill. Together, the 64 MVPs who wrote this book bring about 1,000 years of experience in SQL Server administration, development, training, and design. This incredible book captures their expertise and passion in 60 concise, handpicked chapters and offers valuable insights for readers of all levels. SQL Server MVP Deep Dives, Volume 2 picks up where the first volume leaves off, with completely new content on topics ranging from testing and policy management to integration services, reporting, and performance optimization. The chapters fall into five parts: Architecture and Design, Database Administration, Database Development, Performance Tuning and Optimization, and Business Intelligence. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside Discovering servers with PowerShell Using regular expressions in SSMS Tuning the Transaction Log for OLTP Optimizing SSIS for dimensional data Real-time BI and much more Manning Publications and the authors of this book support the children of Operation Smile, an international children's medical charity that performs free reconstructive surgery for children suffering from facial deformities such as cleft lips and cleft palates by mobilizing medical volunteers who provide education and ====== Table of Contents PART 1 ARCHITECTUREEdited by Louis Davidson Where are my keys? by Ami Levin Yes, we are all individualsA look at uniqueness in the world of SQL by Rob Farley Architectural growth pains by Chris Shaw Characteristics of a great relational database by Louis Davidson Storage design considerations by Denny Cherry Generalization: the key to a well-designed schema by Paul Nielsen PART 2 DATABASE ADMINISTRATION Edited by Paul Randal and Kimberly Tripp Increasing availability through testing by Allan Hirt Page restores by Gail Shaw Capacity planning by Greg Larsen Discovering your servers with PowerShell and SMO by Joe Webb Will the real Mr. Smith please stand up? by John Magnabosco Build your own SQL Server 2008 performance dashboard by Pawl Potasinski SQL Server cost recovery by Peter Ward Best practice compliance with Policy-Based Management by Rod Colledge Using SQL Server Management Studio to the fullest by Rodney Landrum Multiserver management and Utility Explorer - best tools for the DBA by Satya Shyam K. 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<u>Instant Recovery with Write-Ahead Logging</u> Goetz Graefe, Wey Guy, Caetano Sauer, 2022-05-31 Traditional theory and practice of write-ahead logging and of database recovery focus on three failure classes: transaction failures

(typically due to deadlocks) resolved by transaction rollback; system failures (typically power or software faults) resolved by restart with log analysis, redo, and undo phases; and media failures (typically hardware faults) resolved by restore operations that combine multiple types of backups and log replay. The recent addition of single-page failures and single-page recovery has opened new opportunities far beyond the original aim of immediate, lossless repair of single-page wear-out in novel or traditional storage hardware. In the contexts of system and media failures, efficient single-page recovery enables on-demand incremental redo and undo as part of system restart or media restore operations. This can give the illusion of practically instantaneous restart and restore: instant restart permits processing new queries and updates seconds after system reboot and instant restore permits resuming queries and updates on empty replacement media as if those were already fully recovered. In the context of node and network failures, instant restart and instant restore combine to enable practically instant failover from a failing database node to one holding merely an out-of-date backup and a log archive, yet without loss of data, updates, or transactional integrity. In addition to these instant recovery techniques, the discussion introduces self-repairing indexes and much faster offline restore operations, which impose no slowdown in backup operations and hardly any slowdown in log archiving operations. The new restore techniques also render differential and incremental backups obsolete, complete backup commands on a database server practically instantly, and even permit taking full up-to-date backups without imposing any load on the database server. Compared to the first version of this book, this second edition adds sections on applications of single-page repair, instant restart, single-pass restore, and instant restore. Moreover, it adds sections on instant failover among nodes in a cluster, applications of instant failover, recovery for file systems and data files, and the performance of instant restart and instant restore.

Microsoft System Center Data Protection Manager Cookbook Charbel Nemnom, Patrick Lownds, 2018-12-26 Over 60 recipes to achieve a robust and advanced backup and recovery solution leveraging SCDPM Key FeaturesAdapt to the modern data center design challenges and improve storage efficiencyEffective recipes to help you create your own robust architectural designs Solve data protection and recovery problems in your organizationBook Description System Center Data Protection Manager (SCDPM) is a robust enterprise backup and recovery system that contributes to your BCDR strategy by facilitating the backup and recovery of enterprise data. With an increase in data recovery and protection problems faced in organizations, it has become important to keep data safe and recoverable. This book contains recipes that will help you upgrade to SCDPM and it covers the advanced features and functionality of SCDPM. This book starts by helping you install SCDPM and then moves on to post-installation and management tasks. You will come across a lot of useful recipes that will help you recover your VMware and Hyper-V VMs. It will also walk you through tips for monitoring SCDPM in different scenarios. Next, the book will also offer insights into protecting windows workloads followed by best practices on SCDPM. You will also learn to back up your Azure Stack Infrastructure using Azure Backup. You will also learn about recovering data from backup and implementing disaster recovery. Finally, the book will show you how to configure the protection groups to enable online protection and troubleshoot Microsoft Azure Backup Agent. What you will learnInstall and prepare SQL Server for the SCDPM databaseReduce backup storage with SCDPM and data deduplicationLearn about the prerequisites for supported Hyper-V Server protectionIntegrate SCDPM with other System Center products to build optimal servicesProtect and restore the SCDPM databaseProtect your data center by integrating SCDPM with Azure BackupManually create online recovery points and recover production data from AzureProtect and learn about the requirements to recover Azure Stack with SCDPMWho this book is for If you are an SCDPM administrator, this book will help you verify your knowledge and provide you with everything you need to know about the new release of System Center Data Protection Manager.

**SQL Server 2014 Development Essentials** Basit A. Masood-Al-Farooq,2014-07-25 This book is an easy-to-follow, comprehensive guide that is full of hands-on examples, which you can follow to successfully design, build, and deploy mission-critical database applications with SQL Server 2014. If you are a database developer, architect, or administrator who wants to learn how to design, implement, and deliver a successful database solution with SQL Server 2014, then this book is for you. Existing users of Microsoft SQL Server will also benefit from this book as they will learn what's new in the latest version.

Exam Ref 70-764 Administering a SQL Database Infrastructure Victor Isakov,2017-09-26 Prepare for Microsoft Exam 70-764—and help demonstrate your real-world mastery of skills for database administration. This exam is intended for database administrators charged with installation, maintenance, and configuration tasks. Their responsibilities also include setting up database systems, making sure those systems operate efficiently, and regularly storing, backing up, and securing data from unauthorized access. Focus on the expertise measured by these objectives: • Configure data access and auditing • Manage backup and restore of databases • Manage and monitor SQL Server instances • Manage high availability and disaster recovery This Microsoft Exam Ref: • Organizes its coverage by exam objectives • Features strategic, what-if scenarios to challenge you • Assumes you have working knowledge of database installation, configuration, and maintenance tasks. You should also have experience with setting up database systems, ensuring those systems operate efficiently, regularly storing and backing up data, and securing data from unauthorized access. About the Exam Exam 70-764 focuses on skills and knowledge required for database administration. About Microsoft Certification Passing both Exam 70-764 and Exam 70-765 (Provisioning SQL Databases) earns you credit toward an MCSA: SQL 2016 Database Administration certification. See full details at: microsoft.com/learning

Instant Recovery with Write-Ahead Logging Goetz Graefe, Wey Guy, Caetano Sauer, 2016-04-29 Traditional theory and practice of write-ahead logging and of database recovery focus on three failure classes: transaction failures (typically due to deadlocks) resolved by transaction rollback; system failures (typically power or software faults) resolved by restart with log analysis, redo, and undo phases; and media failures (typically hardware faults) resolved by restore operations that combine multiple types of backups and log replay. The recent addition of single-page failures and single-page recovery has opened new opportunities far beyond the original aim of immediate, lossless repair of single-page wear-out in novel or traditional storage hardware. In the contexts of system and media failures, efficient single-page recovery enables on-demand incremental redo and undo as part of system restart or media restore operations. This can give the illusion of practically instantaneous restart and restore: instant restart permits processing new queries and updates seconds after system reboot and instant restore permits resuming queries and updates on empty replacement media as if those were already fully recovered. In the context of node and network failures, instant restart and instant restore combine to enable practically instant failover from a failing database node to one holding merely an out-of-date backup and a log archive, yet

without loss of data, updates, or transactional integrity. In addition to these instant recovery techniques, the discussion introduces self-repairing indexes and much faster offline restore operations, which impose no slowdown in backup operations and hardly any slowdown in log archiving operations. The new restore techniques also render differential and incremental backups obsolete, complete backup commands on a database server practically instantly, and even permit taking full up-to-date backups without imposing any load on the database server. Compared to the first version of this book, this second edition adds sections on applications of single-page repair, instant restart, single-pass restore, and instant restore. Moreover, it adds sections on instant failover among nodes in a cluster, applications of instant failover, recovery for file systems and data files, and the performance of instant restart and instant restore.

Database Repairs and Consistent Query Answering Leopoldo Bertossi, 2022-05-31 Integrity constraints are semantic conditions that a database should satisfy in order to be an appropriate model of external reality. In practice, and for many reasons, a database may not satisfy those integrity constraints, and for that reason it is said to be inconsistent. However, and most likely, a large portion of the database is still semantically correct, in a sense that has to be made precise. After having provided a formal characterization of consistent data in an inconsistent database, the natural problem emerges of extracting that semantically correct data, as query answers. The consistent data in an inconsistent database is usually characterized as the data that persists across all the database instances that are consistent and minimally differ from the inconsistent instance. Those are the socalled repairs of the database. In particular, the consistent answers to a query posed to the inconsistent database are those answers that can be simultaneously obtained from all the database repairs. As expected, the notion of repair requires an adequate notion of distance that allows for the comparison of databases with respect to how much they differ from the inconsistent instance. On this basis, the minimality condition on repairs can be properly formulated. In this monograph we present and discuss these fundamental concepts, different repair semantics, algorithms for computing consistent answers to queries, and also complexity-theoretic results related to the computation of repairs and doing consistent query answering. Table of Contents: Introduction / The Notions of Repair and Consistent Answer / Tractable CQA and Query Rewriting / Logically Specifying Repairs / Decision Problems in CQA: Complexity and Algorithms / Repairs and Data Cleaning

Microsoft SQL Server 2012 Administration Tom Carpenter, 2013-06-17 Implement, maintain, and repair SQL Server 2012 databases As the most significant update since 2008, Microsoft SQL Server 2012 boasts updates and new features that are critical to understand. Whether you manage and administer SQL Server 2012 or are planning to get your MCSA: SQL Server 2012 certification, this book is the perfect supplement to your learning and preparation. From understanding SQL Server's roles to implementing business intelligence and reporting, this practical book explores tasks and scenarios that a working SQL Server DBA faces regularly and shows you step by step how to handle them. Includes practice exams and coverage of exam objectives for those seeking MSCA: SQL Server 2012 certification Explores the skills you'll need on the job as a SQL Server 2012 DBA Discusses designing and implementing database solutions Walks you through administrating, maintaining, and securing SQL Server 2012 Addresses implementing high availability and data distribution Includes bonus videos where the author walks you through some of the more difficult tasks expected of a DBA Featuring hands-on exercises and real-world scenarios, this resource guides you through the essentials of implementing, maintaining, and repairing SQL Server 2012 databases.

**Database Recovery** Vijay Kumar, Sang Hyuk Son, 1998-07-31 Presents an in-depth discussion on all aspects of database recovery. It introduces the topic informally and then presents a formal treatment of recovery mechanism, elevating it from a mechanism to a concept and presenting its essential properties as well as its implementation on Informix, OpenIngres, Oracle, and Sybase commercial database systems. Annotation copyrighted by Book News, Inc., Portland, OR

SQL Server 7 Essential Reference Sharon Dooley,2000 This comprehensive book gives Microsoft SQL developers what they want: a detailed reference with lots of code and real-world examples. And it's just in time for the biggerst database server product to hit the shelves in years--Microsoft SQL Server 7.0. Topics include SQL Server functions, database setup and connectivity, naming conventions; and standards, guidelines, and tips for developing MS SQL Server objects.

Beginning Database Design Solutions Rod Stephens, 2010-12-30 The vast majority of software applications use relational databases that virtually every application developer must work with. This book introduces you to database design, whether you're a DBA or database developer. You'll discover what databases are, their goals, and why proper design is necessary to achieve those goals. Additionally, you'll master how to structure the database so it gives good performance while minimizing the chance for error. You will learn how to decide what should be in a database to meet the application's requirements.

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