Database Recovery

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Goetz Graefe,Wey Guy,Caetano Sauer

Database Recovery:

   Database Recovery Vijay Kumar,Sang Hyuk Son,2012-12-06 Database Recovery presents an in depth discussion on all aspects of database recovery Firstly it introduces the topic informally to set the intuitive understanding and then presents a formal treatment of recovery mechanism In the past recovery has been treated merely as a mechanism which is implemented on an ad hoc basis This book elevates the recovery from a mechanism to a concept and presents its essential properties A book on recovery is incomplete if it does not present how recovery is practiced in commercial systems This book therefore presents a detailed description of recovery mechanisms as implemented on Informix OpenIngres Oracle and Sybase commercial database systems Database Recovery is suitable as a textbook for a graduate level course on database recovery as a secondary text for a graduate level course on database systems and as a reference for researchers and practitioners in industry   **Recovery Mechanisms in Database Systems** Vijay Kumar,Meichun Hsu,1998 Databases like any computer system sometimes fail This book is a contributed volume containing chapters from the world s experts in the field of database recovery The title gives an excellent summary of the advances in database recovery schemes   Database Recovery Kim Emanuel,1987 Recovery techniques are an important aspect of database systems They are essential to ensure that data integrity is maintained after any type of failure occurs The recovery mechanism must be designed so that the availability and performance of the system are not unacceptably impacted by the recovery algorithms running during normal execution On the other hand enough information must be stored so that the database can be restored or transactions backed out in a reasonable amount of time Concepts techniques and problems associated with database recovery will be presented in this thesis The recovery issues for both centralized and distributed systems will be discussed along with the tradeoffs of different recovery tools The database recovery schemes in IMS VS DB2 and SDD 1 will be described to show approaches in existing systems Abstract   **SQL Server Backup and Recovery** Frank McBath,2002 This is a guide to optimizing performance of SQL Server written by a Microsoft insider   **Data Management** Richard T. Watson,1999 Using organisational memory as a motivating feature this book teaches the critical value of data to an organisation and how to manage it effectively The text concentrates on how databases are used and designed as well as other management technologies   **Handbook of Research on Innovations in Database Technologies and Applications** Viviana E. Ferraggine,Jorge H. Doorn,Laura C. Rivero,2009-01-01 This book provides a wide compendium of references to topics in the field of the databases systems and applications Provided by publisher   Oracle Backup & Recovery Handbook Rama Velpuri,1995 Keep your database running smoothly and prepare for the possibility of system failure with this comprehensive resource and guide Written by backup expert Rama Velpuri the guide describes backup and recovery plans that can be implemented with Oracle 7 X Readers will learn what to do when a failure occurs and how to recover their databases without losing data consistence and integrity Database Management   Distributed Database Management Systems Olin H. Bray,1982   Database Recovery Kent

Kehnan Chao,1987   **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   *Active, Real-time, and Temporal Database Systems* ,1997   **Instant Recovery with Write-Ahead Logging** Goetz Graefe,Wey Guy,Caetano Sauer,2022-11-10 Traditional theory and practice of write ahead logging and of database recovery techniques revolve around three failure classes transaction failures resolved by rollback system failures typically 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 its 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 restorepermits resuming queries and updates on empty replacement media as if those were already fully recovered In addition to these instant recovery techniques the

discussion introduces much faster offline restore operations without slowdown in backup operations and with hardly any slowdown in log archiving operations The new restore techniques also render differential and incremental backups obsolete complete backup commands on the database server practically instantly and even permit taking full backups without imposing any load on the database server Table of Contents Preface Acknowledgments Introduction Related Prior Work Single Page Recovery Applications of Single Page Recovery Instant Restart after a System Failure Single Pass Restore Applications of Single Pass Restore Instant Restore after a Media Failure Multiple Failures Conclusions References Author Biographies **Oracle Database 12c Backup and Recovery Survival Guide** Francisco Munoz Alvarez,Aman Sharma,2013-09-24 The book follows a tutorial based approach covering all the best practices for backup and recovery The book starts by introducing readers to the world of backup and recovery then moves on to teach them the new features offered by Oracle 12c The book is full of useful tips and best practices that are essential for any DBA to perform backup and recovery operations in an organization This book is designed for Oracle DBAs and system administrators The reader will have a basic working experience of administering Oracle databases This book is designed for Oracle DBAs and system administrators This book will become a reference guide and will also help you to learn some new skills and give you some new ideas you never knew about helping you to easily find the solution to some of the most well known problems you could encounter as DBAs *... Solvent Recovery* Great Britain. Ministry of Munitions,1921 *An Introduction to Database Systems* C. J. Date,1990 In depth and tutorial treatment of relational data base systems detailed coverage of DB2 INGRES and SQL Pro SQL Server Disaster Recovery James Luetkehoelter,2008-06-24 Many would argue that the single most important job of a SQL Server database administrator is to be able to recover your database in the event of loss or damage Pro SQL Server Disaster Recovery helps you meet that goal by showing you how to think about and plan for potential problems You ll learn to anticipate and reduce the likelihood of a disaster and to mitigate the effects of a disaster when one does occur Perhaps most importantly you ll learn how to prepare so that you can return a system to its normal state quickly ensuring system availability and the continued success and operation of your business Many SQL Server features and technologies are or can be put to good use in disaster recovery planning In this book you ll learn about powerful tools and features such as Database Snapshots and Mirroring for data backup and disaster recovery that are present in SQL Server 2005 and that are enhanced in SQL Server 2008 Also covered are common issues to expect when using these features This book explores your options by examining the technical details of disaster recovery features and then applying that knowledge to practical scenarios There s a human side to disaster recovery planning as well Like few other activities disaster recovery planning requires that you work closely with a wide variety of people from all across your organization People skills are as critical to disaster recovery planning as technical skills and perhaps more so This book does not leave you in the dark but provides sound advice on how to keep disaster recovery planning projects on track how to avoid dangerous scope creep and

how to work effectively with the variety of personality types that you will encounter Disaster recovery planning is really about sleep When you get the call at 3 00 am that your database is lost don t wake up with that icy feeling in your veins Instead wake up with confidence that you have a plan in place aplan that you ve practiced that management has bought into a plan that you can execute even while half asleep to get your database your company and your job back on track

Administering VMware Site Recovery Manager 5.0 Michael Gordon Laverick,2011-12-28 The Complete Hands On Guide to Installing and Configuring VMware Site Recovery Manager 5 0 Administering VMware Site Recovery Manager 5 0 is the complete technical hands on guide to VMware Site Recovery Manager SRM 5 0 installation and configuration for experienced VMware professionals VMware forum moderator and vExpert Mike Laverick fully explains SRM 5 0 s failover failback procedures walks readers through configuring storage replication with hardware from several leading suppliers and shows how to efficiently implement fast automated centralized disaster recovery Drawing on his extensive experience with SRM and vSphere Laverick identifies common pitfalls and errors explains why they occur and shows exactly how to fix them Fully up to date for SRM 5 0 this book delivers in the trenches technical knowledge you won t find anywhere else including expert guidance for utilizing SRM 5 0 s advanced new vSphere Replication VR Coverage includes Going under the hood with SRM 5 0 to thoroughly understand its operation Configuring SRM 5 0 with Dell EqualLogic Replication EMC Celerra Replicator EMC CLARiiON MirrorView HP StorageWorks P4000 Virtual SAN Appliance with Remote Copy and NetApp SnapMirror Configuring multiple LUN volumes with virtual machines and virtual disks Installing VMware SRM and configuring vSphere Replication VR Using VR to replicate VMs across locations without third party storage array based replication Using VR to replicate a single VM or groups of VMs to the Recovery Site Efficiently configuring protected and recovery sites Using Reprotect Mode to accelerate failback and enhance VM portability Using dependencies and priority orders to configure SRM based on your existing categories of applications and services Leveraging SRM 5 0 s scalability improvements to serve large scale and or cloud environments Defining custom recovery plans Working with alarms export histories and access control Implementing bidirectional relationships and shared site configurations Scripting automated site recovery Upgrading from SRM 4 1 to SRM 5 0   A Pascal Database Book Julian Richard Ullmann,1985 This pioneering work integrates an introduction to databases into a comprehensive survey of basic programming and thus allows beginning computer scientists to relate database technology to their core studies as early and as thoroughly as possible Ullmann provides a computer free introduction to data processing imparts skill in relational algebra normalized file design and design of access path data structures by means of copious examples and exercises and gives full accounts of file organization and database administration Students of computer science at many levels will find this book a useful bridge between standard PASCAL programming and the latest developments in database technology   **Professional SQL Server High Availability and Disaster Recovery** Ahmad Osama,2019-01-31 Leverage powerful features of the SQL Server and watch your

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Table of Contents Database Recovery

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