

4 Introduction

Customer experience has shown that if SAP installations suffer from bad database I/O performance, this problem is often caused by an inappropriate placement of database objects on disks. In some cases, although more than one hundred (logical) disks are available, most of the I/O activity is concentrated on a few disks. Carefully planning the database storage layout for today's and tomorrow's need helps to avoid these problems. This paper summarizes design aspects for SAP installations based on a DB2 UDB database.

Primarily, the placement and layout of DB2 UDB objects (table spaces and directories) on storage devices is discussed. Recommendations for strategic decisions on configuring the table spaces are given and explained. The fundamental concept is to distribute all kinds of data across all devices available. This has been proposed recently for state of the art storage systems and for other database management systems (see references [2], [3]). The advantage of this approach is that the full bandwidth of the whole I/O subsystem is available to each individual unit (table space, directory) of the database.

Former database layouts often tried to separate table spaces onto different devices, e.g., separating data and index table spaces and putting each data table space onto different drives. The consequence was that the database often ended in hotspots on devices that carried a single table space. Manual intervention was necessary in each case to alleviate the problem. As time went by, changing application profiles or data growth led to other hotspots or restructuring demands. The goal of the proposed layout is to avoid these problems. Hotspots will rarely occur since each type of data is striped across multiple devices. Consequently, no manual intervention will be necessary to correct the layout. This concept must also be implemented when growing single table spaces to cope with an increasing amount of data. Another goal of the database layout is to minimize planned downtime for database reconfiguration tasks like restructuring table spaces.

The examples in this paper are based on an IBM Enterprise Storage Server (Shark) storage system [6]. Comments regarding different hardware configurations are welcome.

This paper does not try to compete with other DB2 UDB specific documentation like DB2 manuals (e.g., [5]), IBM redbooks [7] and other material about database administration and tuning. Instead, only supplemental information that is specific to SAP systems is given.

In the remainder of this paper, the terms DB2 UDB, UDB, and DB2 always refer to the Linux and Windows release of DB2 UDB Enterprise Edition (EE) Version 7 (fixpak 2). Other members of the DB2 family like DB2 UDB for OS/390 (zSeries) and DB2 UDB for AS/400 (iSeries) are not covered here. Furthermore, most SAP applications built upon the 4.6 base release are covered.

5 Understanding UDB Architectural Constraints

DB2 UDB suffers from two limitations that have important impact on the freedom to design the database layout. The size limit for table spaces and the data balancing for containers within a table space. The proposed layout takes these two limitations into account.

5.1 Table Space Size Limitation

The architecture of DB2 limits the size of each database managed (DBMS) table space to 2^{28} data pages. For the standard page size of 4KB, this means that a table space cannot be larger than 64GB. This upper limit must be considered when sizing the database and designing the layout of the database.

There are several ways to alleviate the impact of this limitation:

1. Use system managed (SMS) table spaces.
SMS table spaces do not restrict the size of a table space. Instead, the size of each table cannot exceed the number of 2^{28} pages. SAP, however, does not recommend using SMS for regular table spaces for performance reasons. SMS is only recommended for temporary table spaces.
2. Isolate large tables from the standard SAP table spaces.
By default, all tables delivered by SAP are collected into a small number of table spaces (e.g., 13 data and 13 index table spaces for R/3). If one table space reaches its maximum size, some of the largest tables within this table space can be moved to different, newly created table spaces.

Ibm Udb Manuals

Paul Conte, Mike Cravitz



Ibm Udb Manuals:

DB2 Universal Database V8 Handbook for Windows, Unix, and Linux Philip K. Gunning, 2003 IBM DB2 Universal Database V8 offers breakthrough availability manageability performance and scalability Now straight from IBM there s a start to finish guide to DB2 Universal Database V8 administration and development for UNIX Linux and Windows This definitive reference covers every aspect of deploying and managing DB2 Universal Database V8 including database design for optimal performance availability and recoverability day to day administration and backup comparing selecting and using appropriate DB2 programming techniques deploying networked and Internet centered database applications migrating to DB2 UDB from other databases or earlier versions of DB2 and much more Using real world examples this book shows how to take full advantage of DB2 V8 s most powerful enhancements Philip K Gunning brings together IBM s best tips and techniques for saving time and money in every facet of database design development deployment and administration Coverage includes bull Leveraging DB2 V8 s new Wizards Advisors and other automation self management features Using the enhanced DB2 XML Extender to build next generation B2B applications Quickly creating Stored Procedures and UDFs with the new Development Center Exploiting multidimensional clustering prefetching materialized query tables Java threading and other performance improvements Using the DB2 improved monitoring and logging facilities Maximizing availability via online table and index reorganization and dynamic configuration Understanding the latest changes in the DB2 product family *DB2 UDB 8.1 Exam 700 Practice Questions* , DB2 UDB 8. 1 Exam 701 Practice Questions Robert Wingate, 2006 This book is targeted for IBM Certified Database Administrator candidates It includes over 200 practice questions and answers for IBM Exam 701 3 complete practice exams IBM Informix Developer's Handbook Whei-Jen Chen, Krishna Doddi, Manoj Ghogale, David Jay, Javier Sagrera, IBM Redbooks, 2011-01-17 IBM Informix is a low administration easy to use and embeddable database that is ideal for application development It supports a wide range of development platforms such as Java™ NET PHP and web services enabling developers to build database applications in the language of their choice Informix is designed to handle RDBMS data and XML without modification and can be extended easily to handle new data sets This IBM Redbooks publication provides fundamentals of Informix application development It covers the Informix Client installation and configuration for application development environments It discusses the skills and techniques for building Informix applications with Java ESQL C OLE DB NET PHP Ruby on Rails DataBlade and Hibernate The book uses code examples to demonstrate how to develop an Informix application with various drivers APIs and interfaces It also provides application development troubleshooting and considerations for performance This book is intended for developers who use IBM Informix for application development Although some of the topics that we discuss are highly technical the information in the book might also be helpful for managers or database administrators who are looking to better understand their Informix development environment Installation and Configuration Guide for MicroStrategy 10 MicroStrategy

Product Manuals,2015-06-04 **DB2 SQL PL** Zamil Janmohamed,Clara Liu,Drew Bradstock,Raul F. Chong,Michael X. Gao,Fraser McArthur,Paul Yip,2005 Straight from IBM the ultimate DB2 PL SQL resource and the FIRST and ONLY to cover DB2 UDB 8 2 **DB2 8 Exam 700 Practice Questions** Robert Wingate,2009-01-29 This book is targeted for IBM Certified Database Associate candidates for DB2 UDB 8 1 It includes over 200 practice questions and answers for IBM Exam 700 4 complete practice exams *Rexx Programmer's Reference* Howard Fosdick,2005-02-18 Originally developed for mainframes but highly portable across platforms from servers to desktops to handhelds Rexx is an easy yet powerful scripting language that s widely used for rapid application development Covers Rexx interpreters for specialized functions object oriented mainframe and handheld There are 8 different free Rexx interpreters optimized for different platforms and uses This book shows how to use them all Shows how to script for GUIs databases web servers XML and other interfaces Details how to make the best use of Rexx tools and interfaces with examples for both Linux and Windows Includes a tutorial with lots of examples to help people get up and running **DB2 Universal Database V8 Application Development Certification Guide** Steve Sanyal,David Martineau,Kevin Gashyna,Michael Kyprianou,2003 The accompanying CD ROM contains a complete trial version of IBM DB2 Universal Database Personal Edition version 8 1 for Windows operating environments evaluation copy Back cover *DB2 8 Exam 701 Practice Questions* Robert Wingate,2009-01-29 This book is targeted for IBM Certified Database Administrator candidates for DB2 8 1 It includes over 200 practice questions and answers for IBM Exam 701 3 complete practice exams **DB2 Universal Database V8.1 Certification Exam 700 Study Guide** Roger E. Sanders,2004 bull Covers all the material you need to know to pass the exam using sample exam questions and answers bull Written by a DB2 Certified expert who was involved in the development of the Version 8 certification exams and the author of 7 best selling DB2 titles bull Part of the IBM Press DB2 Series **Installation and Configuration Guide for MicroStrategy 9. 3** MicroStrategy Product Manuals,MicroStrategy,2012-09-30 **Understanding DB2** Raul F. Chong,Xiaomei Wang,Michael Dang,Dwayne Snow,2007-12-29 The Easy Visual Way to Master IBM DB2 for Linux UNIX and Windows Fully Updated for Version 9 5 IBM DB2 9 and DB2 9 5 provide breakthrough capabilities for providing Information on Demand implementing Web services and Service Oriented Architecture and streamlining information management **Understanding DB2 Learning Visually with Examples** Second Edition is the easiest way to master the latest versions of DB2 and apply their full power to your business challenges Written by four IBM DB2 experts this book introduces key concepts with dozens of examples drawn from the authors experience working with DB2 in enterprise environments Thoroughly updated for DB2 9 5 it covers new innovations ranging from manageability to performance and XML support to API integration Each concept is presented with easy to understand screenshots diagrams charts and tables This book is for everyone who works with DB2 database administrators system administrators developers and consultants With hundreds of well designed review questions and answers it will also help professionals prepare for the IBM DB2 Certification Exams 730

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Backup and Recovery W. Curtis Preston, 2007-01-03 Packed with practical freely available backup and recovery solutions for Unix Linux Windows and Mac OS X systems as well as various databases this new guide is a complete overhaul of Unix Backup Recovery by the same author now revised and expanded with over 75% new material Backup Recovery starts with a complete overview of backup philosophy and design including the basic backup utilities of tar dump cpio ntbackup ditto and rsync It then explains several open source backup products that automate backups using those utilities including AMANDA Bacula BackupPC rdiff backup and rsnapshot Backup Recovery then explains how to perform bare metal recovery of AIX HP UX Linux Mac OS Solaris VMWare Windows systems using freely available utilities The book also provides overviews of the current state of the commercial backup software and hardware market including overviews of CDP Data De duplication D2D2T and VTL technology Finally it covers how to automate the backups of DB2 Exchange MySQL Oracle PostgreSQL SQL Server and Sybase databases without purchasing a commercial backup product to do so For environments of all sizes and budgets this unique book shows you how to ensure data protection without resorting to expensive commercial solutions You will soon learn to Automate the backup of popular databases without a commercial utility Perform bare metal recovery of any popular open systems platform including your PC or laptop Utilize valuable but often unknown open source backup products Understand the state of commercial backup software including explanations of CDP and data de duplication software Access the current state of backup hardware including Virtual Tape Libraries VTLs *Backup & Recovery* W. Curtis

Preston, 2007-01-03 Packed with practical affordable backup and recovery solutions for UNIX Linux Windows and the Mac OS X system as well as various databases this new guide is a complete overhaul of the author's strong selling UNIX Backup Recovery now revised and expanded with over 40 percent new material DB2 SQL Procedural Language for Linux, UNIX, and Windows Paul Yip, 2003 This certification guide offers a complete start to finish coverage of DB2 Universal Database

Version 8 administration With Version 8 key topics such as Performance Enhancements Manageability Enhancements etc are addressed A Complete Guide to DB2 Universal Database Don Chamberlin, 1998-06 This is a guide designed to familiarize users with the DB2 standard while helping to optimize their use of the technology

Advanced DBA Certification Guide and Reference for DB2 Universal Database V8 for Linux, UNIX, and Windows Dwaine Snow, Thomas X. Phan, 2003 Straight from IBM Advanced DBA Certification Guide and Reference for DB2 Universal Database v8 for Linux UNIX and Windows is the definitive guide to enterprise class DB2 v8 administration and the only authoritative self study guide for IBM's new DB2

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DB2 Universal Database: A Comprehensive Guide Pasquale De Marco, 2025-04-16 Embark on a transformative journey into the world of data management with DB2 Universal Database A Comprehensive Guide to Unlocking the Power of Data This comprehensive guidebook unlocks the secrets of DB2 UDB empowering readers with the knowledge and skills to harness the full potential of this robust and versatile database system Within these pages readers will find a wealth of insights into the architecture features and applications of DB2 UDB Delving into the intricacies of database design and implementation the guide provides step by step instructions on creating tables defining relationships and optimizing performance for maximum efficiency Techniques for loading and managing data are meticulously explained ensuring the integrity and security of information assets The guide also explores advanced features and technologies that elevate DB2 UDB to the forefront of database management solutions Stored procedures functions triggers and constraints are brought to life enabling readers to enhance their database applications with greater flexibility and automation Data warehousing and business intelligence concepts are thoroughly examined providing a comprehensive understanding of how to transform raw data into actionable insights that drive informed decision making Unveiling the Future of Data Management Peer into the future of data management as the guide unveils the emerging trends and innovations shaping the landscape of DB2 UDB The roadmap for future releases is revealed keeping readers at the cutting edge of technological advancements The seamless integration of DB2 UDB with cloud and hybrid environments is explored providing insights into leveraging this powerful database system in modern IT infrastructures With its comprehensive coverage of essential concepts practical examples and expert insights DB2 Universal Database A Comprehensive Guide to Unlocking the Power of Data serves as an invaluable resource for database administrators developers and professionals seeking to unlock the full potential of this industry leading database solution Whether embarking on a new data management journey or seeking to enhance existing skills this guidebook equips readers with the knowledge and expertise to navigate the complexities of DB2 UDB and harness its power to drive innovation and success If you like this book write a review on google books

[SQL/400 Developer's Guide](#) Paul Conte, Mike Cravitz, 2000 IBM and the rest of the computer industry are putting most of their DBMS development efforts into SQL This reference provides the SQL 400 skills that a successful applications developer needs and shows how to create comprehensive complex and professional SQL 400 databases

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