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Overview - SQL October 15, 2015 UDUG

DB2 Information Management Software





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# **Db2 10 For Zos Technical Overview**

Paolo Bruni, Neale Armstrong, Ravi Kumar, Kirsten Ann Larsen, Tink Tysor, Hao Zhang, IBM Redbooks

### **Db2 10 For Zos Technical Overview:**

DB2 10 for z/OS Technical Overview Paolo Bruni, Rafael Garcia, Sabine Kaschta, Josef Klitsch, Ravi Kumar, Andrei Lurie, Michael Parbs, Rajesh Ramachandran, IBM Redbooks, 2014-07-16 IBM DB2 Version 10 1 for z OS DB2 10 for z OS or just DB2 10 throughout this book is the fourteenth release of DB2 for MVSTM It brings improved performance and synergy with the System z hardware and more opportunities to drive business value in the following areas Cost savings and compliance through optimized innovations DB2 10 delivers value in this area by achieving up to 10% CPU savings for traditional workloads and up to 20% CPU savings for nontraditional workloads depending on the environments Synergy with other IBM System z platform components reduces CPU use by taking advantage of the latest processor improvements and z OS enhancements Streamline security and regulatory compliance through the separation of roles between security and data administrators column level security access and added auditing capabilities Business insight innovations Productivity improvements are provided by new functions available for pureXML data warehousing and traditional online TP applications Enhanced support for key business partners that allow you to get more from your data in critical business disciplines like ERP Bitemporal support for applications that need to correlate the validity of data with time Business resiliency innovations Database on demand capabilities to ensure that information design can be changed dynamically often without database outages DB2 operations and utility improvements enhancing performance usability and availability by exploiting disk storage technology The DB2 10 environment is available either for brand new installations of DB2 or for migrations from DB2 9 for z OS or from DB2 UDB for z OS Version 8 subsystems This IBM Redbooks publication introduces the enhancements made available with DB2 10 for z OS The contents help you understand the new functions and performance enhancements start planning for exploiting the key new capabilities and justify the investment in installing or migrating or skip migrating to DB2 10 DB2 10 for z/OS Performance Topics Paolo Bruni, Felipe Bortoletto, Ravikumar Kalyanasundaram, Glenn McGeoch, Roger Miller, Cristian Molaro, Yasuhiro Ohmori, Michael Parbs, IBM Redbooks, 2013-08-23 DB2 10 for z OS can reduce the total DB2 CPU demand from 5 20% compared to DB2 9 when you take advantage of all the enhancements Many CPU reductions are built in directly to DB2 requiring no application changes Some enhancements are implemented through normal DB2 activities through rebinding restructuring database definitions improving applications and utility processing The CPU demand reduction features have the potential to provide significant total cost of ownership savings based on the application mix and transaction types Improvements in optimization reduce costs by processing SQL automatically with more efficient data access paths Improvements through a range list index scan access method list prefetch for IN list more parallelism for select and index insert processing better work file usage better record identifier RID pool overflow management improved sequential detection faster log I O access path certainty evaluation for static SQL and improved distributed data facility DDF transaction flow all provide more efficiency without changes to applications These

enhancements can reduce total CPU enterprise costs because of improved efficiency in the DB2 10 for z OS DB2 10 includes numerous performance enhancements for Large Objects LOBs that save disk space for small LOBs and that provide dramatically better performance for LOB retrieval inserts load and import export using DB2 utilities DB210 can also more effectively REORG partitions that contain LOBs This IBM Redbooks publication provides an overview of the performance impact of DB2 10 for z OS discussing the overall performance and possible impacts when moving from version to version We include performance measurements that were made in the laboratory and provide some estimates Keep in mind that your results are likely to vary as the conditions and work will differ In this book we assume that you are somewhat familiar with DB2 10 for z OS See DB2 10 for z OS Technical Overview SG24 7892 00 for an introduction to the new functions **DB2 11** for z/OS Technical Overview Paolo Bruni, Felipe Bortoletto, Ravikumar Kalyanasundaram, Sabine Kaschta, Glenn McGeoch, Cristian Molaro, IBM Redbooks, 2016-05-05 IBM DB2 Version 11 1 for z OS DB2 11 for z OS or just DB2 11 throughout this book is the fifteenth release of DB2 for IBM MVSTM It brings performance and synergy with the IBM System z hardware and opportunities to drive business value in the following areas DB2 11 can provide unmatched reliability availability and scalability Improved data sharing performance and efficiency Less downtime by removing growth limitations Simplified management improved autonomics and reduced planned outages DB2 11 can save money and save time Aggressive CPU reduction goals Additional utilities performance and CPU improvements Save time and resources with new autonomic and application development capabilities DB2 11 provides simpler faster migration SQL compatibility divorce system migration from application migration Access path stability improvements Better application performance with SQL and XML enhancements DB2 11 includes enhanced business analytics Faster more efficient performance for query workloads Accelerator enhancements More efficient inline database scoring enables predictive analytics The DB2 11 environment is available either for new installations of DB2 or for migrations from DB2 10 for z OS subsystems only This IBM Redbooks publication introduces the enhancements made available with DB2 11 for z OS The contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to DB2 11 **DB2 12 for z/OS Technical Overview and Highlights** Gareth Jones, IBM Redbooks, 2017-07-12 This paper provides a high level overview of the functions features and improvements that were introduced in IBM DB2 12 for z OS These businesses gain a competitive advantage improve business efficiency and effectiveness and discover business insights from their existing data The paper is intended for DB2 system administrators database administrators and application programmers but might also be of interest to IT managers and executives A more detailed description of DB2 12 is available in IBM DB2 12 for z OS Technical Overview SG24 8383 The purpose of this paper is to provide the reader with an understanding of some of the key changes that were introduced in DB2 12 for z OS including the following topics Performance for traditional workloads Performance enablers for modern applications Application

Enablement Reliability availability and scalability Security Migration and prerequisites IBM DB2 12 for z/OS Technical Overview Meg Bernal, Tammie Dang, Acacio Ricardo Gomes Pessoa, IBM Redbooks, 2019-07-03 IBM DB2 12 for z OS delivers key innovations that increase availability reliability scalability and security for your business critical information In addition DB2 12 for z OS offers performance and functional improvements for both transactional and analytical workloads and makes installation and migration simpler and faster DB2 12 for z OS also allows you to develop applications for the cloud and mobile devices by providing self provisioning multitenancy and self managing capabilities in an agile development environment DB2 12 for z OS is also the first version of DB2 built for continuous delivery This IBM Redbooks publication introduces the enhancements made available with DB2 12 for z OS The contents help database administrators to understand the new functions and performance enhancements to plan for ways to use the key new capabilities and to justify the investment in installing or migrating to DB2 12 Extremely pureXML in DB2 10 for z/OS Paolo Bruni, Neale Armstrong, Ravi Kumar, Kirsten Ann Larsen, Tink Tysor, Hao Zhang, IBM Redbooks, 2011-01-28 The DB2 pureXML feature offers sophisticated capabilities to store process and manage XML data in its native hierarchical format By integrating XML data intact into a relational database structure users can take full advantage of DB2 s relational data management features In this IBM Redbooks publication we document the steps for the implementation of a simple but meaningful XML application scenario We have chosen to provide samples in COBOL and JavaTM language The purpose is to provide an easy path to follow to integrate the XML data type for the traditional DB2 for z OS user We also add considerations for the data administrator and suggest best practices for ease of use and better performance Security Functions of IBM DB2 10 for z/OS Paolo Bruni, Marcelo Antonelli, Hyun Baek, Rick Butler, Ernie Mancill, IBM Redbooks, 2011-09-14 IBM DB2 9 and 10 for z OS have added functions in the areas of security regulatory compliance and audit capability that provide solutions for the most compelling requirements DB2 10 enhances the DB2 9 role based security with additional administrative and other finer grained authorities and privileges This authority granularity helps separate administration and data access that provide only the minimum appropriate authority The authority profiles provide better separation of duties while limiting or eliminating blanket authority over all aspects of a table and its data In addition DB2 10 provides a set of criteria for auditing for the possible abuse and overlapping of authorities within a system In DB2 10 improvements to security and regulatory compliance focus on data retention and protecting sensitive data from privileged users and administrators Improvements also help to separate security administration from database administration DB2 10 also lets administrators enable security on a particular column or particular row in the database complementing the privilege model This IBM Redbooks publication provides a detailed description of DB2 10 security functions from the implementation and usage point of view It is intended to be used by database audit and security administrators Managing IBM DB2 10 for z/OS Using the IBM DB2 Administration Tool for z/OS Version 10 Paolo Bruni, Tom Crocker, Elaine Morelli, Richard Schaufuss, Jane Yang, IBM Redbooks, 2011-04-22

Today s business environment has increased in the complexity and rate of change that a database administrator must control The ability to respond quickly to a changing environment is constantly challenged by the explosion of data growth combined with a decline in an experienced work staff The IBM DB2 Administration Tool for z OS Version 10 helps you become productive from Day 1 with DB2 10 for z OS by using performance savings right away lowering the CPU costs while reducing the batch window Users experience higher data availability by easily managing online schema changes including additional columns to indexes to use index only access Customers are able to experience higher data availability through simplified recovery operations Access new functionality in DB2 10 for z OS to lower costs and improve efficiency both before during and after the DB2 migration process Maximize the performance of your key DB2 business applications to speed their deployment in DB2 10 for z OS Improve the productivity and efficiency of your staff when DB2 10 for z OS is running This IBM Redbooks publication highlights the data administration enhancements introduced by DB2 Administration Tool for z OS Version 10 by providing scenarios of their use with the new functions provided by DB2 10 for z OS **Data Studio and** DB2 for z/OS Stored Procedures Paolo Bruni, Marichu Scanlon, IBM Redbooks, 2011-03-15 Stored procedures can provide major benefits in the areas of application performance code re use security and integrity DB2 has offered ever improving support for developing and operating stored procedures This IBM RedpaperTM publication is devoted to tools that can be used for accelerating the development and debugging process in particular to the stored procedure support provided by the latest and fastest evolving IBM product Data Studio We discuss topics related to handling stored procedures across different platforms We concentrate on how to use tools for deployment of stored procedures on z OS but most considerations apply to the other members of the DB2 family This paper is a major update of Part 6 Cool tools for an easier life of the IBM Redbooks publication DB2 9 for z OS Stored Procedures Through the CALL and Beyond SG24 7604 Managing DB2 for z/OS Utilities with DB2 Tools Solution Packs Paolo Bruni, Carlos Alberto Gomes da Silva Junior, Craig McKellar, Adilet Sabyrbaev, Tim Willging, IBM Redbooks, 2013-07-16 IBM DB2 Tools for z OS support and take advantage of the latest versions of DB2 for z OS These tools are integral for the administration of the DB2 for z OS environment and for optimization of data performance In addition the IBM portfolio addresses additional client requirements in the areas of data governance and version upgrade acceleration Underlying the operation of any database management system are the utilities With the number of database objects growing exponentially managing utility jobs meeting service level agreements SLAs and ensuring recoverability can be overwhelming IBM offers DB2 Tools solution packs that assist in the DB2 utilities management process Solution packs combine several products into a single consolidated solution providing everything necessary to ensure the execution of a set of database administration functions. The goals are to reduce the operational complexity and reduce cost The objective of this IBM Redbooks publication is to document the added value in terms of productivity and performance for database administrators when using the IBM DB2 Utilities Solution Pack and the IBM DB2 Fast Copy Solution Pack We show

the functions of the tools provided by the solution packs as used in real life scenarios and adopting utilities best practices

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web 1 explain your results from both parts of the experiment in terms of cohesion and surface tension 2 how do your results compare to the other groups in your class provide at least 2 possible reasons for any similarities and differences you identified drops on a penny teacher notes materials

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