Enterprise Computing Solutions - Education Services

OFERTA FORMATIVA

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DB2 10.5 for LUW Advanced Database Administration with DB2 BLU Acceleration

CÓDIGO:	DURACIÓN:	Precio:
CL463G	40 Hours (5 días)	€2,100.00

Description

This course is designed to teach you how to:
Fully use the advanced technical functions and features of DB2 LUW 10.1 and 10.5.
Implement DB2 BLU Acceleration, column-organized table support, for a new or existing DB2 database.
Describe how the column dictionaries used for DB2 BLU Acceleration are built and utilized to provide extreme compression for column-organized tables.
Explain the default workload management used for DB2 BLU Acceleration processing and how you can tailor the WLM objects to efficiently use system resources.
Monitor a DB2 database or application that uses column-organized tables using SQL monitor functions.
Implement Shadow tables for selected row-organized tables to improve analytics query performance
Configure a DB2 database that supports a mixture of application processing, including OLTP and Analytics query processing with Shadow tables
Create the Infosphere CDC Datastore, Subscription and Table mappings required to support Shadow tables
Implement a User Maintained MQT for a column-organized table
Create optimization profiles that allow applications to control specific operations included in the access plans selected by the DB2 Optimizer, like which index is used to access a table or which join method to utilize for joining tables.
Perform advanced monitoring using the DB2 administrative views and routines in SQL queries.
Configure and manage the implementation of DB2 instance or database level auditing, including using the db2audit command and creation of audit policies which can be assigned to specific tables, users or database roles to perform selective collection of audit records.
Explore DB2's management of disk space usage in Database Managed Storage (DMS) table spaces, including the activities of the rebalancer. Use SQL queries and utilities to check the high water mark on table spaces and to monitor the rebalance operation.
Move data from one table to another or from one database to another using utilities like db2move.
Utilize the ADMIN_MOVE_TABLE procedure to implement table changes with a minimal impact to data availability for applications.
Implement automatic storage management for table spaces and storage groups or enable automatic resize options for DMS managed table spaces to reduce administration requirements and complexity.
Exploit and monitor the REORG utility processing for offline and online table, and index reorganization This includes planning for the disk space and database log space necessary for reorganization.
Utilize the REORG Utility to implement row compression for large tables, to reduce disk utilization and improve I/O performance for a DB2 database and understand the automatic creation of compression dictionaries.
For Multidimensional Clustering (MDC) tables, determine how to select the dimension columns and table space extent size for efficient implementation of MDC tables. Compare the block indexes used with MDC tables with rows based indexes. Select the MDC rollout option that best matches application needs and achieves the best performance results.
Plan and implement range based table partitioning for large DB2 tables. Utilize the ALTER TABLE ATTACH and DETACH options to support roll-in and roll-out operations for range-partitioned tables. Compare the advantages of selecting or combining range partitioning with the hash-based partitioning used in DB2 partitioned databases or the multiple dimensions provided by MDC tables.

Objetivos

•Monitor a DB2 LUW database using command line processor queries
•Implement BLU Acceleration, column-organized table support, for a new or existing DB2 database.
•Configure a DB2 database that uses DB2 BLU Acceleration, column-organized tables, including sort memory and utility heap memory considerations
•Describe the default workload management used for DB2 BLU Acceleration processing and how you can tailor the WLM objects to efficiently use system resources
•Implement Shadow tables for selected row-organized tables to improve analytics query performance
•Configure a DB2 database that supports a mixture of application processing, including OLTP and Analytics query processing with Shadow tables
•Create the Infosphere CDC Datastore, Subscription and Table mappings required to support Shadow tables

•Implement an optimization profile to control a portion of the access plan selected by the DB2 optimizer to achieve specific application performance results
•Define storage groups for automatic storage table spaces and use ALTER tablespace to change the storage group assigned to a tablespace
•Manage the disk space allocated in DMS table spaces using ALTER TABLESPACE to extend or to reduce the containers, and monitor the progress of the DB2 rebalancer process
•Implement automatic resize for DMS table spaces or Automatic Storage management for table spaces to reduce the complexity of managing DB2 LUW databases
•Utilize range-based partitioned tables to support large DB2 tables that require very efficient roll-in and roll-out capabilities
•Set the options for the INGEST utility and monitor ingest processing
•Plan and execute the DB2MOVE utility to copy selected table data for an entire schema for objects from one DB2 database to another
•Select options and processing modes for the online table move procedure, ADMIN_MOVE_TABLE, to implement changes to tables with minimal loss of data access by applications
•Analyze REORGCHK reports to determine if the table or the index reorganization would improve database efficiency. Invoke and monitor the processing for the REORG utility running offline or online
•Plan and implement MDC tables to improve application performance, including selecting the appropriate table space extent size
•Implement DB2 Instance audit data collection using the db2audit command or database level auditing by creating audit policy objects and assigning the policies to objects using the AUDIT command

Público

This is an advanced course for DB2 LUW experienced database administrators who support DB2 for UNIX, Windows, and Linux databases.

Requisitos Previos

DB2 10 for LUW: Basic Administration for Linux and Windows (CL2X3) or
DB2 10 for LUW: Basic Administration for AIX (CL213) or
DB2 10 for Linux, UNIX, and Windows Quickstart for Experienced Relational DBAs (CL485)
Or have equivalent experience

Programa

Advanced Monitoring
Advanced Table Space Management
DB2 10.5 BLU Acceleration Concepts
DB2 10.5 BLU Acceleration Implementation and Use
DB2 10.5 BLU Acceleration Implementing Shadow Tables and User Maintained MQTs
Using Optimizer Profiles to control Access Plans
Table Partitioning
Advanced Data Movement
Advanced Table Reorganization
Multiple Dimension Clustering
DB2 Database Auditing

Fechas Programadas

A petición. Gracias por contactarnos.

Información Adicional

Esta formación también está disponible en modalidad presencial. Por favor contáctenos para más información.