IBM CV963G - DB2 11 FOR Z/OS APPLICATION PERFORMANCE AND TUNING - NEW

Dauer: 5 Tage
Durchführungsart: Präsenztraining

Zielgruppe: This intermediate course is designed for DB2 for z/OS application developers, DB2 for z/OS DBAs, and anyone else who is responsible for application performance and tuning in a DB2 for z/OS environment.

Voraussetzungen: You should have:
Familiarity with DB2 for z/OS application programming and SQL.

This Application Performance and Tuning course is designed to teach the students how to prevent application performance problems and to improve the performance of existing applications. Students will learn about indexes, table design, locking, and other issues relevant to application performance. This course includes paper exercises and machine exercises designed to reinforce the lecture content.

Programm

Objectives:
Design better indexes
Determine how to live with the optimizer (avoid pitfalls, help when necessary)
Avoid locking problems
Use accounting trace information to find significant performance problems in an operational application

KeyTopics:
Introduction to Application Performance and Tuning
List common causes of application performance problems
Evaluate different approaches for detecting the problems
Describe possible solutions
Performance Analysis Tools
Understand components of local response time (LRT)
Identify touch random (TR), touch sequential (TS), and fetch (F) time costs
Utilize VQUBE3 to estimate local response time (LRT)
Locate necessary time values in an accounting trace report
Draw and interpret a bubble chart
Towards Better Indexes

Understand DB2 index structure and usage

Evaluate the cost of creating a new index or modifying an existing index

Design the best possible index for a single table query

Describe prefetch operations and multi-index access

Multiple Table Access

Identify various join methods and join types

Predict table join order

Design the best indexes for joining tables

Optimize correlated and non-correlated subqueries

Utilize UNION, INTERSECT, and EXCEPT operations

Towards Better Tables

Evaluate clustering alternatives

Understand basic rules of normalization

Consider conditions for denormalization

Define materialized query tables

Learning to Live with the Optimizer

Describe the limitations related to dangerous predicates

Identify situations when the optimizer needs help with filter factor estimates

Massive Batch

Detect performance problems with massive batch jobs

Make batch jobs run faster

Locking Issues

Describe DB2 serialization

Understand transaction locking

Avoid locking problems in application design

Course Summary

Summarize the topics covered in this course
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