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.

Nr.: 37370
Preis: 3.790,00 € (netto) / 4.510,10 € inkl. 19% MwSt.

Schulungsmethode: presentation, discussion, hands-on exercises, demonstrations on the system

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
Evalutate 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
## Termine und Orte: 01 Dezember 2018 - Nr.: 37370

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<tr>
<th>Ort</th>
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<tbody>
<tr>
<td>Frankfurt</td>
<td>25 Mrz - 29 Mrz 2019</td>
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<tr>
<td>Hamburg</td>
<td>16 Sep - 20 Sep 2019</td>
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