Sybase® Education Services

Performance and Tuning: Adaptive Server Enterprise Query Optimizer

Skill: Mastery
EDB631 - 5 days
Lecture: 70%/Labs: 30%

Tune queries and stored procedures for optimal performance using Adaptive Server Query Optimizer. Learn techniques to write high performance queries, allowing the optimizer to use the most efficient query plan, and diagnose and correct performance problems with already existing queries. Interpret optimizer statistics, learn how to use simulated statistics and acquire a benchmarking tuning methodology.

Objectives:

Upon completion of this course, you will be able to:

- *Discuss* tradeoffs involved in performance tuning
- *Use* Sybase utilities to troubleshoot query performance
- *Ensure* your queries are using the most efficient access method methods (indexes, table scans, parallel vs. serial)
- *Write* queries which help the Optimizer choose the most efficient query plan
- *Interpret* and *modify* optimizer statistics to improve query performance
- *Use* simulated statistics for "what if" analysis
- *Tune* insert, update, and delete operations
- *Troubleshoot* parallel performance problems
- *Optimize* stored procedure performance

Who Should Attend:

SQL Developers, Application Developers who use SQL code, Database Administrators and/or Sybase System Administrators who are involved in tuning queries, Performance and Tuning Specialists, Any computer professional who needs an understanding of how the Sybase Query Optimizer works.

Topics:

- The Sybase Query Optimizer
- Showplan and other Sybase utilities
- Optimizing joins
- Optimizer statistics
- Abstract Plans
- Tuning insert, update, and delete operations
- Parallel query plans
- Using indexes to reduce I/O
- Stored procedures

Prerequisites:

Fast Track to Adaptive Server Enterprise and *Advanced T-SQL: Tips and Techniques*

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**Contact your Sybase Education Training Consultant at +971 2 627 5911,
or visit www.sybase.ae/education for the latest course price information.**