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Course overview:

Oracle Database 10g: Implement Parallel SQL & Partitioning

(D107eng, 5-day)

Overview and objectives

The objective of this course is to explore Oracle technology for execution of SQL statements in parallel. Major subject areas to be considered are:

A general understanding of parallelism.

A specific consideration of parallel SQL execution within an Oracle database.

Monitoring and tuning parallel SQL operations

Who should attend?

Database administrators, data warehouse administrators and application developers who will be responsible for implementing and using data warehouse technology or are otherwise interested in parallel SQL execution

Suggested prerequisites

Oracle Database 10g Introduction to SQL

Oracle Database 10g: Program With PL/SQL

FUNDAMENTALS OF PARALLEL PROCESSING

- Symmetric Multiprocessing Hardware • Oracle Instance Parallel Processing • Oracle MTS Mode • Oracle Parallel Server Technology • Partitioned Tables & Indexes • What Is Parallel Execution?

ENABLING & TUNING PARALLEL EXECUTION

- Enabling Parallel Execution • Automatically Tuning Parallel Operations • The Adaptive Multi-User Algorithm • Understanding The Degree Of Parallelism • Manually Tuning Parallel Operations • Using The Optimizer Hints • Examining A Parallel Execution Plan

ADVANCED TUNING OF PARALLEL EXECUTION

- Advanced Tuning Techniques • Viewing The Pool With V\$PX_PROCESS • Viewing Parallel Statistics With V\$PQ_SLAVE • Tuning The Parallel Pool With V\$PQ_SYSSTAT • Memory Consumption V\$PX_PROCESS_SYSSTAT • Parallel Comparison With V\$PQ_SESSTAT • Tuning Workload Skewing With V\$PQ_TQSTAT • Determining The DOP With V\$PX_SESSION • Detailed Statistics Using V\$PX_SESSTAT

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