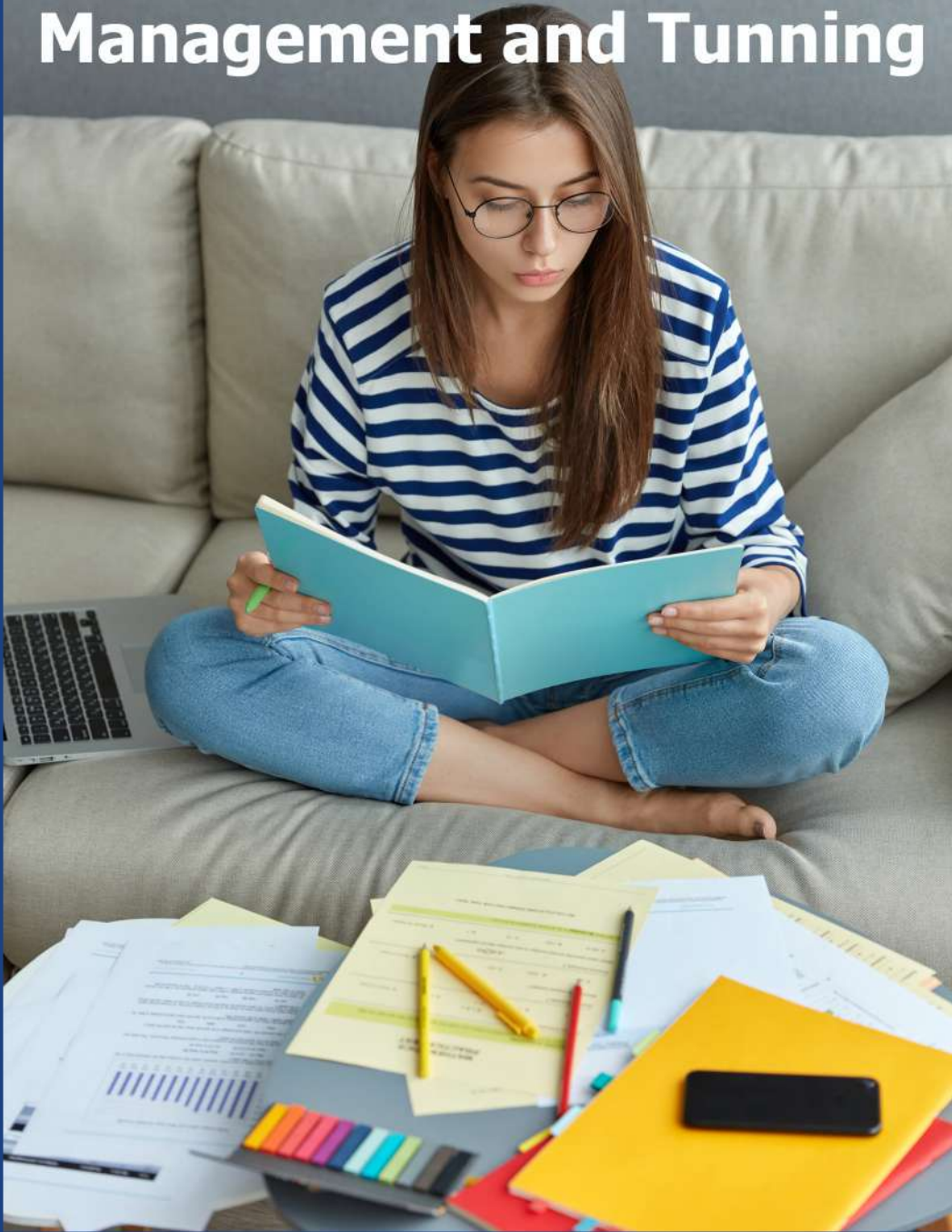


Oracle Database 19C Performance Management and Tuning



Online Course

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Oracle Database 19C Performance Management and Tunning

Course Modules

1. Basic Tuning Methods and Diagnostics

- Tuning Methodologies
- Tuning Lifecycles phases
- Describe the time model
- Explain wait events
- Diagnosing performance problems using V\$ views

2. Using Statspack

- Installing and configuring Statspack
- Diagnosing performance problem using Statspack

3. Using Log and Trace Files to Monitor Performance

- Using the Alert Log to Monitor Performance
- Using Trace files to Monitor Performance

4. Using Metrics, Alerts and Baselines

- Monitoring performance using metric thresholds and alerts
- Using AWR baselines to monitor performance



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5.Using AWR-Based Tools

- Diagnosing performance issues using ADDM
- Diagnosing performance issues using ASH reports
- Using Automated Maintenance Tasks to Manage Performance

6.Performing Oracle Database Application Monitoring

- Implementing Real-Time Database Operation Monitoring
- Configuring and using services to monitor database App prfrmnce

7.Identifying Problem SQL Statements

- Understand the phases for SQL statement processing
- Interpreting execution plans
- Use formtd output of SQL Trace to identify poorly performing SQL
- Monitoring Adaptive / Dynamic Execution plans
- Monitoring Automatic Re-optimization and SQL Plan Directives

8.Influencing the Optimizer

- Explain how statistics influence the optimizer
- Configuring parameters to influence the optimizer



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9.Reducing the Cost of SQL Operations

- Shrinking Segments
- Managing Chaining and Migration
- Configuring Index and Table Performance Options
- Configuring table compression
- Diagnosing and tuning space related issues

10. Using Real Application Testing

- Use SQL Prformnc Analyzer to test the impact of database changes
- Use Database Replay to check impact of system change

11. SQL Performance Management

- Managing optimizer statistics
- Using the Optimizer Statistics Advisor
- The SQL Access and SQL Tuning advisors to Tune SQL statements
- Use SQL Plan Management to tune SQL statements

12. Tuning the Shared Pool

- Diagnosing & resolving performance pblm rlted to the shared pool
- Managing and Tuning the Result Cache



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13. Tuning the Buffer Cache

- Diagnose & resolving performance problems related to the buffer
- Diagnose database I/O issues
- Configuring Big Table Caching
- Configuring Flash Cache

14. Tuning the PGA

- Diagnosing and resolving performance issues related to PGA
- Diagnose & resolve performance issues related to temporary tablespace

15. Using Automatic Memory Management

- Configuring Automatic Shared Memory Management
- Configuring Automatic Memory Management

16. Using In-Memory Features

- Config & Use in memory column store to improve SQL performance
- Use in memory column store with other database features.

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