Oracle PL/SQL Performance Tuning Tips & Techniques

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Proven PL/SQL Optimization Solutions

In *Oracle PL/SQL Performance Tuning Tips & Techniques*, Oracle ACE authors with decades of experience building complex production systems for government, industry, and educational organizations present a hands-on approach to enabling optimal results from PL/SQL. The book begins by describing the discovery process required to pinpoint performance problems and then provides measurable and repeatable test cases. In-depth coverage of linking SQL and PL/SQL is followed by deep dives into essential Oracle Database performance tuning tools. Real-world examples and best practices are included throughout this Oracle Press guide.

- Follow a request-driven nine-step process to identify and address performance problems in web applications
- Use performance-related database tools, including data dictionary views, logging, tracing, PL/SQL Hierarchical Profiler, PL/Scope, and RUNSTATS
- Instrument code to pinpoint performance issues using call stack APIs, error stack APIs, and timing markers
- Embed PL/SQL in SQL and manage user-defined functions
- Embed SQL in PL/SQL using a set-based approach to handle large volumes of data
- Properly write and deploy data manipulation language triggers to avoid performance problems
- Work with advanced datatypes, including LOBs and XML
- Use caching techniques to avoid redundant operations
- Effectively use dynamic SQL to reduce the amount of code needed and streamline system management
- Manage version control and ensure that performance fixes are successfully deployed

Code examples in the book are available for download.

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