

Riyaj Shamsudeen
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SUMMARY

Highly skilled performance tuning specialist DBA/Oracle internals specialist with over 16 years of proven skills in performance tuning, complex problem solving, backup & recovery, very large databases (VLDB), data warehouse design, E-business suite administration, and Real application cluster arenas. He is also an author, presenter, problem solver and an exceptional leader. He is a proud member of OakTable network. He has also blogged many technical articles in <http://orainternals.wordpress.com>

EDUCATION & CERTIFICATIONS

Master of Engineering in Computer Science
Bachelor of Engineering in Electronics
OCP and Chauncey certified Oracle DBA (Versions 7.0 to 9i)

PUBLICATIONS & PRESENTATIONS

(Partial list and papers can be supplied as requested)

- Performance specific features in 11g (SIOUG 2008 (future))
- Performance myths in RAC instances (SIOUG 2008).
- Cost based query transformations: Concepts and analysis using 10053 trace (HOTSOS 2008, UKOUG 2008(projected))
- Tuning with SQL new features in 9i & 10g (HOTSOS 2007, RMOUG 2008)
- Redo internals and tuning by redo reduction (HOTSOS 2006, UKOUG 2006, SIOUG 2007)
- Debunking myths about redo_undo_commit_rollback(RMOUG 2008, SIOUG 2007, DOUG 2007, UKOUG 2007)
- Tools and techniques for advanced debugging in Solaris environment (DOUG 2007)
- Internals of Oracle database locks. Published in Oracle Professional Magazine, www.pinnaclepublishing.com/OP
- Exciting SQL & PL/SQL new features (DOUG 2006, JCPenney development)
- Advanced index internals – (DOUG 2005)
- Authored i2 SCM application specific database optimization guides for Supply Chain Collaboration (SCC), Material Allocator (MA), Order Management and eExecution.
- Hot backup internals
- What every Oracle DBA needs to know in a Sun Solaris environment (i2)
- Oracle 9i new features with examples and scripts (Presented to i2 global audience)
- SQL Tuning 101 (Presented to i2 developers)

CLASSES TAUGHT

- Oracle 9i performance tuning – El Centro College
- Oracle 9i Database Administration II – El Centro College
- DBA Workshop I and II – Northlake College
- Introduction to SQL – Northlake College

Accomplishments:

1. Remote DBA services company

- Resolved shared pool performance issue due to not-so-optimal use of ASMM.
- Identified root cause for a database link session log-off performance issue. Application restart causes another database server to use 100% CPU in kernel mode and caused ASM heart beat to fail.
- Tuned an high intensive, very complex query to a major fantasy sports channel to reduce from 5 seconds to 0.5 seconds.

- Debugged 'log file sync' performance issues and identified segment and code changes to reduce redo rate.
- Resolved numerous other performance issues and complex recovery issues.

2. Major telecom leader

- Tuned 11.5.8 to 11.5.10 upgrade process from 32 hours to 16 hours and reduced downtime for production upgrade to fit in a maintenance window. Tuning was in many areas such as latch tuning, index changes, code changes etc.
- Effectively used logminer and wrote custom code to recover deleted transactions.
- Consulted to other internal groups for complex problems with recovery and database hung situations.
- Resolved many performance issues in applications, both custom and standard code.
- Identified an issue in CBO after 9.2.0.8 upgrade and resolved quickly reducing production performance impact.

3. Major Retail giant

- Tuned many custom reports and reduced processing time from couple of hours to few minutes.
- Tuned numerous processes, queries, setup Cost based optimizer properly for Planning and allocation application. Introduced various advanced configuration changes such statistics history, space history, performance monitoring etc.
- Resolved latch contention issues in apps 11i. Tuned custom code focusing on latch contention, partitioning, SQL tuning, optimizer hints etc and reduced batch processing time from 9 hours to 3 hours.
- Designed efficient table structures, specifically for a 12 billion row table, reducing table size tremendously and improving performance. Approximately 1TB of disk savings and 3TB of BCV disk savings resulted by this change alone. Visible application performance improvement noted, with reduced redo size.
- Designed and tuned a weekend process to merge 12 billion rows table with 2 billion rows table within 4 hours.

4. Supply chain technology industry

- Material Allocator: Led the tuning activity of this application and the database, focusing on latch contention, partitioning, SQL tuning, bitmap indexes, optimizer hints, cursor sharing, etc exceeding the SLA of a Japanese steel manufacturer. Overall, the application performance was improved by 800% exceeding the requirements.
- Supply Chain Collaboration: Tuned the application with optimizer parameters, SQL tuning, and special indexes exceeding US customer requirements. Reduced the search response time from 100 seconds to 2-3 seconds for a 1million item search.
- Resolved complex insufficient shared pool memory errors at a customer site. Engaged with the customer and established that this error was due to an optimizer feature. Coordinated with Oracle support to resolve the root cause of the problem.

5. Digital document management industry

- Reduced the processing time from 36 hours to 6 hours in a third party developed application and enabled the completion of processing within the stipulated time.
- Led the capacity DBA team to scale the capacity of the system from 2000 to 7000 concurrent users.
- Tuned **library cache** contention problem in the production database. During peak hours, database was unusable due to this issue. Identified and resolved root cause.
- Identified an intermittent corruption issue in the archive log files. Created a “C” program to proactively detect and coordinated with sequent engineers to fix the sequent UFS code.
- Critically reviewed the **data warehouse design** for scalability and functionality. Recommended numerous changes to improve performance, thereby reducing cost.