

Oracle University South Africa

EXPERT SUMMIT

5th – 9th Oct 2015, Johannesburg

Oracle University Johannesburg Expert Summit

Dear Oracle Professional,

On behalf of Oracle University, it is my pleasure to invite you to attend the very first Oracle University Expert Summit in Africa. Traveling from afar, four acclaimed Oracle technology Gurus will come to Johannesburg, South Africa to share their expert insight and best practices accumulated over many years of experience and specialization. This is real-world insight that you will be able to apply right away.

Regardless of your level of experience with Oracle technologies, the event will enhance your knowledge and fill in any missing pieces of the Oracle puzzle. Such learning goes far beyond the standard content of classroom training as it is unique opportunity to interact with Oracle Gurus, get a first-hand deep dive, and discuss challenges with like-minded people.

Similar sessions in London, Dubai and Istanbul were exceptionally well received. Elevate your knowledge of Oracle technology to new heights. This is a unique opportunity not to be missed!

PRAGASEN MOODLEY

Sales Director
Oracle University Africa

The **Experts** you will be learning from:



JONATHAN LEWIS is an expert and well-known figure in the Oracle world with more than 25 years experience. He specializes in design, trouble-shooting and advanced training in best use of the Oracle database engine. He is a frequent speaker on the international circuit, is author of three books: Oracle Core (Apress), Practical Oracle 8i (Addison-Wesley), Cost Based Oracle Fundamentals (Apress). He has contributed to two other books "Tales of the Oak Table" (Apress) and "10g New Features" (Oracle Press). He is a regular contributor to various Oracle-related magazines, and also publishes technical articles on his blog jonathan-lewis.wordpress.com. For the last 20 years, Jonathan has specialized in short-term assignments, typically of a design, review, or troubleshooting nature – often spending no more than two or three days on a client site to address problems.



CHRIS DATE is an author, lecturer, researcher, and consultant, specializing in relational database technology. During his time at IBM, he worked with Edgar F. Codd on the relational model for database management and on the technical planning and design of the IBM products SQL/DS and DB2. He left IBM in 1983 and is widely regarded as the current principal maintainer and developer of the relational model, in association with Hugh Darwen. His book An Introduction to Database Systems, currently in its 8th edition, is the standard text on the subject. It has sold well over 900,000 copies (excluding translations) and is used by several hundred colleges and universities worldwide.



ARUP NANDA has been an Oracle technologist for the last 20 years, touching all aspects of database management from modeling to performance troubleshooting to disaster recovery and security, most recently on Oracle RAC and Exadata. He has coauthored five books, written more than 500 articles in publications such as Oracle Magazine and OTN, delivered more than 300 sessions and 100 training days all over the world. He is an Oracle ACE Director, a member of Oak Table Network, and a member of the Board of Exadata SIG. Arup blogs regularly at arup.blogspot.com. He was the recipient of two prestigious worldwide awards from Oracle: DBA of the Year in 2003 and Enterprise Architect of the Year in 2012.



DAN HOTKA is an internationally recognized Oracle expert. He is an Oracle ACE Director, has worked in the computer industry more than 35 years and has over 29 years of experience with Oracle products. His experience with the Oracle RDBMS dates back to the Oracle V4.0 days. Dan enjoys sharing his knowledge of the Oracle RDBMS. He is well-published with 12 Oracle books: Oracle SQL Developer Handbook (Oracle Press), TOAD Handbook (Addison-Wesley), Oracle SQL Tuning: A Close Look at Explain Plans (CreateSpace), Oracle SQL Tuning: A Close Look at Optimizer Hints (CreateSpace), TOAD as a SQL Tuning Tool (CreateSpace), Oracle9i Development By Example (Que), and well over 200 printed articles. Dan is frequently published in Oracle trade journals, regularly blogs at DanHotka.Blogspot.com, and speaks at Oracle conferences and user groups around the world.

Writing Optimal SQL with Jonathan Lewis

Seminar 1: Oct 5th | 9:00–17:00

This one-day seminar teaches attendees how to improve the performance of live systems by tuning inefficient SQL statements and by reducing the overheads of I/O. In many cases the system has already been designed, but there are structural features of the Oracle database that may provide a cost-effective solution despite problems that might be imposed by SQL itself. The seminar will cover methods of reviewing data distribution patterns, use of indexes, use of views (stored and inline), analytic functions, sub-query factoring, as well as statistics, hints, and a brief review of execution plans.

Database Troubleshooting & Tuning with Jonathan Lewis

Seminar 2: Oct 6th | 9:00–17:00

This seminar discusses the benefits of viewing troubleshooting as being tightly coupled with design. If you know how something should have been designed, you can do a better job of addressing the problems that emerge from a system that is in production. We look at some commonly occurring problems, and consider some generic ‘quick fixes’ that can often be used to patch a badly performing system. We then take a strategic look at how to identify performance problems and examine the tools that Oracle gives us to access the wealth of information that gets collected in the dynamic performance views (v\$ and x\$). In particular, we look at how Automatic Workload Repository (AWR) and Statspack capture and report useful information from dynamic performance views and learn how to use the default reports to best effect.

Mastering ASM with Arup Nanda

Seminar 3: Oct 7th | 9:00–17:00

Learn all that is there to know about ASM – from beginner to advanced levels. ASM, introduced in early 2004, has been around for several years now, but it still produces a sense of awe and unfamiliarity to even the most seasoned Oracle DBAs. The reasons could be anything from lack of awareness to even myths surrounding the product, such as that it is yet another database to be managed. In simple terms, ASM is just a volume manager similar to whatever is available in your OS right now with one key difference: it was designed keeping in mind the benefits to the Oracle Database; and that alone. Attendees will be guided through the concepts of ASM, from building the ASM instance to managing and troubleshooting it. The session is conducted by a real-life Oracle DBA who has been using ASM since 2004 and was a participant in its beta program.

PL/SQL Expert Programming Tips and Techniques with Dan Hotka

Seminar Oct 7th | 9:00– 17:00

This session will explore how to identify the underperforming components of PL/SQL routines and how to use Oracle’s newer DEBUG routines to find problems in PL/SQL logic. We will take a look at the latest features of the PL/SQL language, such as the new optimizing compiler and collections. Participants will have the opportunity to learn more about TOAD and SQL Developer, as well as Oracle tools such as SQL*Plus. This seminar utilizes many scripts that Dan wrote and will give away during the session.

Aspects of Relational Theory with Chris Date

Seminar 5: Oct 7th | 9:00–17:00
and Oct 8th | 9:00–12:30

Relational theory is the foundation of our field, yet very few database practitioners can claim to have a solid understanding of that theory. Part of the problem is that the universities seem mostly to have fallen down on the job. Instead of teaching foundation material, they teach SQL – presumably because SQL is what’s out there “in the real world.” In other words, their focus seems to be on training, not education. Sadly, however, SQL and relational theory aren’t the same thing! As a consequence, database practitioners very typically have large gaps in their knowledge, gaps they might not even realize are there. The purpose of this session is to plug some of those gaps.

Performance Tuning in RAC: Architecture and Internals with Arup Nanda

Seminar 6: Oct 8th | 9:00–17:00

This seminar helps you understand the deeper working of the RAC infrastructure and its constituent components such as Global Cache Service, Global Enqueue Service, Global Resource Directory. Arup will demonstrate how these components work together to bring the performance to the RAC cluster, how LMS works, how cache fusion works and how locks are coordinated across different machines. Participants will learn all that watching live simulations of the RAC cluster operations. Towards the latter part, participants will learn about different wait events in RAC and how they are mitigated to improve performance.

Understanding Explain Plans with Dan Hotka

Seminar 7: Oct 8th | 9:00–12:30

Dan will explain how your SQL and applications can take advantage of the computing environment by going into detail on how Oracle arrives at an execution plan: the explain plan. This seminar teaches you how Oracle’s cost-based optimizer assembles explain plans. This is core knowledge you will need in order to tune SQL without guesswork. Various coding techniques will be illustrated. You will see how to ensure that the SQL runs at maximum performance levels in current and future Oracle database environments. Dan will also present a cool tool that can be used to show important information and statistics for tuning SQL.

Working with Indexes with Dan Hotka

Seminar 8: Oct 8th | 13:30–17:00

This seminar covers the various indexing options available to the Oracle RDBMS and will teach you tips and techniques of using each of these options. Indexes can greatly improve performance of SQL, but is this always the case? The answer will surprise you. Also, what is the ramification of too many indexes? Can too much of a good thing be a problem? Again, the answer may surprise you. Dan will cover how to tell if the index is being used at all, also how to use important statistics to improve SQL performance and index selection as well. Understanding how indexes work and when to use the different kinds of indexes is critical to both individual SQL performance and the overall batch cycle performance. This seminar utilizes many scripts that Dan wrote and will give away during the session.

Time and Relational Theory with Chris Date

Seminar 9: Oct 8th | 13:30–17:00
and Oct 9th | 9:00–17:00

Two recent trends—the plummeting cost of storage and the widespread adoption of data warehouse technology—have led to an increasing interest in temporal databases. Indeed, the idea of maintaining and processing historical data has become not just a goal but a reality for many organizations. As a consequence, the ability to deal properly with the time dimension in databases has become an increasingly important practical problem. And today’s mainstream DBMS products are (at last, some might say) beginning to include features that are specifically designed to help with this important requirement—though it has to be said too that the support currently found in those products falls a long way short of the theoretical ideal. This seminar describes and explains that theoretical ideal—which, interestingly, is 100 percent consistent with the classical relational model—in depth. It also discusses the new temporal support to be found in the SQL standard (“SQL:2011”).

Performance Tuning in RAC: Designing and Implementing with Arup Nanda

Seminar 10: Oct 9th | 9:00–17:00

This seminar explains the various techniques of assessing the performance and how to design for maximum performance in a RAC environment. In the first module you will learn various assessment methods - from resource to time accounting, how to monitor a running process, how to get the statistics on the RAC components and block transfers, how to get extended trace, how to analyze the traces and resource and correlate them to performance issues. In the second module you will learn how to design the various database objects like sequences, tables, indexes, etc. to avoid issues in RAC environments. Finally you will learn how to use all these techniques in three real life case studies.

Advanced PL/SQL Techniques and Tuning with Dan Hotka

Seminar 11: Oct 9th | 9:00–17:00

In this seminar, Dan will cover advanced PL/SQL techniques including all compiler options, performance features that can be used when working with large amounts of data, processing of blobs/clobs/bfile objects and debugging of routines. He will also share valuable PL/SQL tuning tips along with the PL/SQL profiler. This seminar utilizes many scripts that Dan wrote and will give away during the session.

igned, but there are structural features of the Oracle database that may provide a cost-effective solution despite problems that might be imposed by SQL itself. The seminar will cover methods of reviewing data distribution patterns, use of indexes, use of views (stored and inline), analytic functions, sub-query factoring, as well as statistics, hints, and a brief review of execution plans.



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DAY-1 5th Oct	9:00 - 17:00 Seminar 1 Writing Optimal SQL with Jonathan Lewis		
DAY-2 6th Oct	9:00 - 17:00 Seminar 2 Database Troubleshooting & Tuning with Jonathan Lewis		
DAY-3 7th Oct	9:00 - 17:00 Seminar 3 Mastering ASM with Arup Nanda	9:00 - 17:00 Seminar 4 PL/SQL Expert Programming Tips and Techniques with Dan Hotka	9:00 - 17:00 Seminar 5 Aspects of Relational Theory with Chris Date
	9:00 - 17:00 Seminar 6 Performance Tuning in RAC: Architecture and Internals with Arup Nanda	9:00-12:30 Seminar 7 Understanding Explain Plans with Dan Hotka	9:00-12:30 Aspects of Relational Theory with Chris Date
DAY-4 8th Oct		9:00 - 17:00 Seminar 6 Performance Tuning in RAC: Architecture and Internals with Arup Nanda	13:30 - 17:00 Seminar 8 Working with Indexes with Dan Hotka
	DAY-5 9th Oct		9:00 - 17:00 Seminar 10 Performance Tuning in RAC: Designing and Implementing with Arup Nanda

Event Venue

Radisson Blu Hotel Sandton
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See the hotel location on
Google Maps:
<http://goo.gl/b6atQQ>

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