



The New York Oracle Users Group

Summer General Meeting – June 14, 2016

Sponsored by EMC

AGENDA

Time	Activity	Track/Room	Presenter
8:30-9:00	REGISTRATION AND BREAKFAST		
9:00-9:15	Opening Remarks General Information	(Single session) Richard Harris Terrace	Simay Alpoge NYOUG President
SESSION 1 9:20-10:20	KEYNOTE Transforming with Oracle Cloud	(Single session) Richard Harris Terrace	Samir S. Shah Oracle Corp.
10:20-10:25	BREAK		
SESSION 2 10:25-11:25	Database 12c Architecture and New Features	DBA Richard Harris Terrace	Martin Millstam Oracle Corp.
	Oracle Application Express 5.1 - New Features	Developer Room S341	Marc Sewtz Oracle Corp.
11:25-11:30	BREAK		
SESSION 3 11:30-12:30	When the Rules Change: Next Generation Oracle Database Architectures using Super-Fast Storage	DBA Richard Harris Terrace	James Morle EMC DSSD
	JAVA and Oracle 12c - The good, better and best	Developer Room S341	Coleman Leviter NYOUG/IOUG
LUNCH 12:30-1:30	Future of Data - IOT, Realtime , Streaming	(Single Session) Richard Harris Terrace	Anant Asthana Pythian
SESSION 4 1:30-2:30	Experience as a Multitenant DBA	DBA Richard Harris Terrace	Arup Nanda Starwood Hotels
	A MicroService for JSON Documents Processing using Nashorn/OJVM.	Developer Room S341	Kuassi Mensah Oracle Corp.
2:30-2:45	BREAK		
SESSION 5 2:45-3:45	Extended distance Oracle RAC: zero downtime, high speed, only standard hardware	DBA Richard Harris Terrace	Artem Danielov FlashGrid Inc.
	Printing Without Printers: A Database- Centric Approach to Document Exchange and Reporting	Developer Room S341	Michael Rosenblum Dr. Paul Dorsey Dulcian, Inc
3:45-4:00	BREAK		
SESSION 6 4:00-5:00	Understanding the MySQL release cadence	DBA Richard Harris Terrace	Ronald Bradford EffectiveMySQL
	SQL query performance tuning case study	Developer Room S341	Tao Zuo/NPD

ABSTRACTS

9:20-10:20 AM KEYNOTE: Transforming with Oracle Cloud

Explore the range of Oracle cloud solutions suited to the specific needs of your job role, whether you're a developer, database administrator, infrastructure specialist or data scientist. Gain insight into Oracle's Cloud Platform that enables developers to easily and rapidly develop applications, simplifies management and boosts agility for administrators and unlocks the data or open data lab to a broader community to deliver new insights. Learn more about how organizations can deliver cloud services to their own data centers with Oracle Cloud Machine.

Samir S. Shah

Samir Shah has over 20 years of various industry experience. Currently he is working as an Enterprise Architect for Oracle Corporation, participating in several key customer cloud and big data transformations. Samir has a deep and wide breadth of technology background as a developer, database administrator and cloud infrastructure specialist. Prior to joining Oracle, he was a Director Enterprise Architecture at Microsoft and Director of Oracle and Microsoft Solutions at VCE (EMC, Cisco and VMware joint venture), where he focused on hybrid cloud solutions. His full profile can be viewed at [linkedin.com/in/Samir-shah-8299b3](https://www.linkedin.com/in/Samir-shah-8299b3)

10:25-11:25 AM DBA TRACK: Database 12c Architecture and New Features

The presentation contains information about architectural changes of the Oracle Database 12c. The new features that have been introduced to date as well as the different deployment options that we have. The presentation focuses on the components of the database that provide unique features for a modern database and how to best utilize those.

Martin Millstam

Martin Millstam has worked for Oracle Corporation for 6 years, both in EMEA and North America. Previous to working for Oracle Martin managed Oracle and SQL Server based ERP systems for Intertek in Europe. Martin has a Bachelor of Computer Engineering from the Royal Institute of Technology in Stockholm, Sweden.

10:25-11:25 AM DEVELOPER TRACK: Oracle Application Express 5.1 - New Features

While APEX 5.0 was primarily focused on developer productivity using Page Designer and creating modern user interfaces with the Universal Theme, APEX 5.1 will be a huge leap in end user productivity. See how the new Interactive Grid will bring dynamic, rich-client reporting and multi-row editing capabilities to your APEX applications and how the new, powerful charting engine - based on Oracle's own JavaScript Extension Toolkit (Oracle JET) - will enable users to visualize and interact with their data like never before. We'll also look at further refinements to the Universal Theme, Live Template Options, more productive wizards and an enhanced Page Designer.

Marc Sewtz

Marc Sewtz is a Senior Software Development Manager at Oracle Corporation in New York City. With over twenty years of industry experience, Marc held roles in Consulting, Sales and Product Development and manages a global team of Software Developers and Product Managers in the Oracle Application Express (APEX) development team, part of the Oracle Database Tools group. Marc and his team are responsible for product features such as the Oracle Application Express User Interface and Theme infrastructure, Mobile development, Dynamic Actions, Reporting, Charting, Tabular Forms and PDF printing. Marc has a Master's degree in computer science from the University of Applied Sciences in Wedel, Germany.

11:30-12:30 PM DBA TRACK: When the Rules Change: Next Generation Oracle Database Architectures using Super-Fast Storage

When enabled with revolutionary storage performance capabilities, it becomes possible to think differently about physical database architecture. Massive consolidation, simplified data architectures, more data agility and reduced management overhead. This presentation, based on the DSSD D5 platform, includes performance and cost comparison with other platforms and shows how extreme performance is not only for extreme workloads.

James Morle

James Morle has been working in the high performance database market for 25 years, most of which has been spent working with the Oracle database. After 15 years running Scale Abilities in the UK, he now leads the Oracle Solutions at DSSD/EMC in Menlo Park.

11:30-12:30 PM DEVELOPER TRACK: JAVA and Oracle 12c - The good, better and best

The Oracle database language du jour is primarily PL/SQL and SQL. However, as many third party vendors create more shareware for software development it sometimes becomes quite difficult to stay within the pl/sql SQL mix.

JAVA, on the scene since 1978 has become the language that is used quite extensively in Oracle developmental database as well as third party software.

The author will explore basic fundamentals compiling using JAVA in Oracle 12c as well as examples that the audience may try themselves.

Coleman Leviter

Coleman Leviter is employed as an Oracle Database Developer at Arrow Electronics. He has presented at IOUG's Collaborate and at Oracle Open World. He is on the IOUG Board of Directors (ioug.org). He is Vice President at NY Oracle Users' Group (www.nyoug.org). His articles have been published in Select Journal and OTDUG Journal. He has worked in the financial services industry and the aerospace industry where he developed Navigation, Flight Control and Reconnaissance software for the F-14D Tomcat. Coleman has a BSEE from Rochester Institute of Technology, an MBA from C.W. Post and an MSCS from New York Institute of Technology. He may be contacted at cleviter@gmail.com.

12:30-1:30 PM LUNCH SESSION: Future of Data - IOT, Realtime, Streaming

I will be talking about the new trends in the industry with People storing more and more data. IOT is starting to create more data in fields that were previously never reporting / storing data such as people's footsteps etc. I am going to then discuss what challenges that poses and how we can help solve these challenges; what are our options and tools to address these situations. We will be talking about everything from distributed computing, Open source tools, Hadoop/Spark and security of data.

Anant Asthana

Anant is a Principal Architect and Data Scientist at Pythian. He is a thought leader in the Big Data space. His experience ranges from Hadoop/Spark based technology to traditional RDBMs systems.

1:30-2:30 PM

DBA TRACK: Experience as a Multitenant DBA

Oracle Multitenant option allows you consolidate multiple databases into a single one. But most DBAs find the idea of managing a multitenant environment daunting. In this session you will learn what the speaker—a real word DBA user—did to be a DBA in a multitenant environment and used the tools, features and techniques always used--backup/recovery using RMAN, ASM, security, RAC, Data Guard, Cloud Control, EM Express and everything else. As this session will explain, there is little change to your understanding to manage a multitenant database—both as a CDBA and a PDBA.

Arup Nanda

Ja Arup Nanda has been an Oracle DBA for over 20 years with experience spanning all aspects from Modeling to performance tuning and Exadata. He speaks frequently, has authored about 300 articles, co-authored 5 books, blogs at arup.blogspot.com and mentors new and seasoned DBAs. He won Oracle's DBA of the Year in 2003, Enterprise Architect of the Year in 2012, is an ACE Director and a member of Oak Table Network.

1:30-2:30 PM

DEVELOPER TRACK: A MicroService for JSON Documents Processing using Nashorn/OJVM.

The monolithic Web application is dead; this is the era of service-based architecture, micro-services, functional/reactive programming and polyglot persistence. A modern application is an assembly of services or micro-services, each with its own implementation and persistence.

This technical session describes the steps for implementing a JavaScript data-bound micro-service for processing data directly in Oracle database. The typical use case consists in processing millions of JSON documents in place, and returning only the result sets. The session also shows how to turn such micro-service into a RESTful data service for Cloud deployment.

Kuassi Mensah

Kuassi Mensah is Director of Product Management at Oracle; his scope includes: The Quality of services of Java apps with Oracle database (Perf/Scalability, HA, Security, etc.); Hadoop and Spark integration with Oracle database; and Nashorn integration with Oracle database.

Mr. Mensah holds a MS in CS from the Programming Institute of University of Paris; he is a frequent speaker at IT events & author.

2:45-3:45 PM

DBA TRACK: Extended distance Oracle RAC: zero downtime, high speed, only standard hardware

Oracle Real Application Clusters (Oracle RAC) offer unique capabilities for high-availability and local disaster recovery of mission-critical databases. Zero downtime can be achieved in cases of localized disasters by using two or three sites located up to 100km apart. Unlike replication techniques, in extended distance clusters the data is mirrored synchronously across the sites. At any given time, all locations have exact full copy of the data. In this session you will learn how to build high-speed extended distance Oracle RAC clusters using commodity servers, commodity NVMe SSDs, and FlashGrid software.

Artem Danielov

Artem is CTO and a co-founder of FlashGrid Inc. For the last four years Artem has been working on open storage architectures for Oracle clusters leveraging Grid Infrastructure and ASM technologies.

2:45-3:45 PM

DEVELOPER TRACK: Printing Without Printers: A Database-Centric Approach to Document Exchange and Reporting

Every organization must tackle the problem of document exchange, especially in the health care and government services arenas. Many official forms have to be filled out and processed exactly as mandated, preserving standards pixel by pixel. Reporting requirements also demand flexibility and customization without sacrificing performance and budgets. This presentation focuses on using the database for creating final documents. A number of examples from actual projects will show how PDF and Excel files can be efficiently prepared without leaving the server, as long as you use the appropriate tools and mechanisms: some home-grown (reporting repositories and XLS generators), and some developed by others (PL/PDF, ITEXT, PL/JSON).

Michael Rosenblum & Dr. Paul Dorsey

Michael Rosenblum is a Development DBA at Dulcian, Inc. He is responsible for system tuning and application architecture and has co-authored three books about PL/SQL and database practices. Dr. Paul Dorsey is the founder and President of Dulcian, Inc. He is the co-author of eight books about the Oracle Database environment and winner of numerous user group awards.

4:00-5:00 PM

DBA TRACK: Understanding the MySQL release cadence

MySQL as an open source product has a very different philosophy towards software product development. Users of MySQL can access to development milestone releases of MySQL and provide feedback and input of features under development and planned for a subsequent release. MySQL also has a shorter end of life (EOL) policy for generally available (GA) releases. This presentation will discuss the terms used and release cadence now in place under Oracle and will provide best practice guidelines of the upgrade path to remain current with MySQL major and minor releases. This presentation will also discuss the differing community edition updates and the regularly scheduled Monthly Rapid Update and Quarterly Service Pack enterprise releases.

Ronald Bradford

Ronald has been working with MySQL for over 15 years. He has worked in enterprise data architecture across multiple RDBMS's including Ingres, Oracle and MySQL. Ronald is a frequent speaker in the MySQL ecosystem and at Oracle events. He is an author of four books on MySQL and is an Oracle Ace Director.

4:00-5:00 PM

DEVELOPER TRACK: SQL query performance tuning case study

The presentation will walk through a query tuning case from practice. During the walk through, Various tools such as Linux top, explain plan, optimizer statistics gathering, optimizer hint, 10046 trace and tkprof, sql tuning advisor and sql profile will be covered.

Tao Zuo

Senior Production DBA. Experiences with oracle databases from 7.3 to 11g, including Hybrid RAC database with 30+ Tera byte in size. Oracle Certified Professional. Hold computer science Master Degree.