



# Sessions and Speakers

**Autumn 2016 Conference**  
November 11<sup>th</sup> – 13<sup>th</sup>, 2016, Pravets

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Our core business is Oracle DBA consultancy. We are Oracle Bulgaria Gold Partner since 2014. We provide onsite and remote Oracle and Managed Services mainly for clients in Benelux. We also deliver Bulgarian IT specialists for projects all over EU.

From 2015 we are exclusive sales representative for: Albania, Bulgaria, Macedonia, Romania, Russia and Serbia of the OWB2ODI Converter, created by our Italian Partner Database & Technology s.r.l.

This year they will present their new Tool for flawless ODI 11 to ODI 12 update.

It will make its international debut at BGOUG autumn event in Pravets.

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TechnoLogica is a leading Bulgarian software company, which since 1990 has been developing a comprehensive range of information technology services including implementation of information systems, software development, consulting and specialized training. TechnoLogica is an Oracle Platinum Partner and a Microsoft Gold Certified Partner. It is an authorized education center for Oracle, the International Institute of Business Analysis (IIBA ®) and the Project Management Institute (PMI ®), as well as a certified test center for IIBA. TechnoLogica is consistently pursuing innovation by acquiring, adapting and further developing new technologies and creating technological tools. The company's product portfolio includes solutions for: HRM; CRM; BPM; PM; DW and BI; GIS; CAD/CAM; Development of custom software. The company has offices in the Bulgarian cities of Sofia, Plovdiv, Varna and Burgas, in the Republic of Macedonia and Republic of Serbia. Its team numbers more than 200 experts in various fields.

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## Alberto Fazio, Working together - D&T Tool and Oracle UA for flawless ODI 11 to ODI 12 Upgrade

### **Working together - D&T Tool and Oracle UA for flawless ODI 11 to ODI 12 Upgrade**

**Alberto Fazio, Senior Developer on ODI, Database & Technology**

**Conference session, , , **

#### **Abstract:**

The Italian company D&T, creator of the OWB to ODI Converter service, has created a new product - an efficient and fast application (tool) that used together with Oracle Upgrade Assistant (UA) allows easier upgrade from ODI 11 to ODI 12 and prevents issues during and after the test.

The Background:

- Many users are experiencing a great number of difficulties when updating from ODI 11 to ODI 12;
- The experience of D&T teams has shown that a simple upgrade from version of ODI to another can create various problems, not only while testing new upgraded objects, but also in their future development;
- Oracle Upgrade Assistant (UA) upgrades all of the objects in the ODI 11 repository, but only for one of them, ODI Interfaces, it's better to use our tool. ODI Mappings use a specific style that can create many difficulties when they need to be fixed or in cases of future deployments (normal operations in each data warehouse system).
- As the creators of the OWB2ODI converter tool and having done literally hundreds of conversions from OWB to every ODI version, the D&T team decided to create a tool to make ODI Mapping easier and more efficient when used in conjunction with Oracle UA.

How does the new tool work?

The steps are the same as recommended by Oracle for the use of UA:

1. Run the UA tool.
2. Duplicate the just upgraded repository schema.
3. In this new schema, called the AUA, delete all ODI Packages, ODI Mappings, and ODI Reusable Mappings.
4. Run the tool and it will read from the ODI 11 repository and write to a clean ODI 12 repository (AUA).
5. Export all previously deleted ODI Packages from the old schema into a new schema using Smart Export utility.
6. After that import them into the newest ODI 12 repository with the Smart Import utility by setting it to reuse the ODI Mappings.
7. After these steps, UA upgrades the entire database is upgraded from ODI 11 to ODI 12, but with all the ODI Mappings created by the D&T Tool.

Technical details:

1. UA creates one ODI Mapping for each ODI Interface, but, in ODI 11, a lot of interfaces exist just to create a complex flow, with one or many inline views. It creates two ODI Reusable Mappings for each temporary Interface. ODI Temporary Interfaces and ODI Reusable Mappings are not the same object.
2. With the D&T tool, each ODI Mappings is created starting from the real ODI Interface inside the ODI Package, until the last ODI Temporary Interface found in the previous one.
3. In ODI 11, the choice to use more temporary interfaces to create a complex flow is necessitated by the software. ODI 12 has introduced mappings, so this choice is no longer used.
4. UA creates a structure of model folders following the project structure and creates for each temporary interface one model with one DataStore (representing the Target DataStore of the temporary interface). This DataStore does not exist in the database, indeed, in ODI 11, these DataStores are only in the ODI metadata.

The tool is still in beta version and was already presented to Oracle Italy, which has shown major interest in it.

The D&T Tool will make its international debut at the BGOUG event from 11 to 13th October 2016 in Pravetz, Bulgaria.



#### **Speaker:**

Alberto has been Oracle DBA and Oracle developer since 1999. During 2011, he was also lecturer at Oracle University in Italy. He has been specialist in data integration, consultant and data architect in various projects, implemented for large customers, including: Xerox, Vodafone, Fabbrica d'Armi Pietro Beretta, Pirelli Tyres and others. Since 2009 he is senior Oracle ODI consultant at Database & Technology S.R.L., Milan, Italy."

## Andy Rivenes, Best Practices for Getting Started With Oracle Database In-Memory

***Best Practices for Getting Started With Oracle Database In-Memory***

***Andy Rivenes, Product Manager, ORACLE***

***Conference session, , , ***

### ***Abstract:***

Oracle Database In-Memory is one of the most fascinating new database features in a long time, promising an incredible performance boost for analytics. This presentation provides a step-by-step guide on when and where you should take advantage of Database In-Memory, as well as outlining strategies to help you ensure you get the promised performance boost regardless of your database environments. These strategies include how to identify which objects to populate into memory, how to identify which indexes to drop, and details on how to integrate with other performance enhancing features. With easy-to-follow real-world examples, this presentation explains exactly what steps you need to take to get up and running on Oracle Database In-Memory.

### ***Speaker:***



Andy Rivenes is a Senior Principal Product Manager at Oracle Corporation and is a Product Manager for Database In-Memory. Prior to that Andy was a Product Manager for Heat Map, Automatic Data Optimization, SecureFiles and DBFS. Andy has been working with Oracle products since 1992 and spent a large part of his career managing Oracle databases for both custom and E-Business Suite applications. Andy now spends his time helping customers implement Database In-Memory and providing information about Database In-Memory through blogs, conferences, and customer visits. He is also a frequent contributing author to the Oracle Database In-Memory blog at <https://blogs.oracle.com/In-Memory>.

## Andy Rivenes, Oracle Database In-Memory Option

**Oracle Database In-Memory Option**

**Andy Rivenes, Product Manager, ORACLE**

**Conference session, , , **

**Abstract:**

For more than 30 years, Oracle has extended the database with industry-leading innovations, never breaking its pledge to bring your existing applications and DBAs along. That trend continues with the introduction of Oracle Database In-Memory, an in-memory column store second to none and compatible with all existing applications. This session explains in detail what motivated Oracle to develop this new technology and provides a clear understanding of how this unique “dual format” architecture works. It also illustrates how the new in-memory functionality interacts with key database performance features such as Oracle Real Application Clusters (Oracle RAC), Oracle Partitioning, parallel execution, and much more.

**Speaker:**





Andy Rivenes is a Senior Principal Product Manager at Oracle Corporation and is a Product Manager for Database In-Memory. Prior to that Andy was a Product Manager for Heat Map, Automatic Data Optimization, SecureFiles and DBFS. Andy has been working with Oracle products since 1992 and spent a large part of his career managing Oracle databases for both custom and E-Business Suite applications. Andy now spends his time helping customers implement Database In-Memory and providing information about Database In-Memory through blogs, conferences, and customer visits. He is also a frequent contributing author to the Oracle Database In-Memory blog at <https://blogs.oracle.com/In-Memory>.

## Borislav Ivanov, Pluggable Databases in the Application Development Lifecycle

*Pluggable Databases in the Application Development Lifecycle*

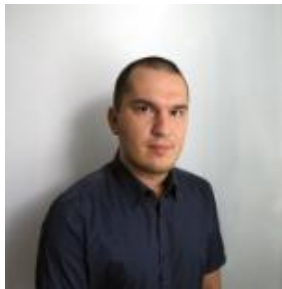
*Borislav Ivanov, OCP, Oracle DBA, CNSys Ltd.*

Conference session, , , 

**Abstract:**

This presentation aims to present the benefits of Oracle Database 12c Multitenant compared to the traditional non-CDB architecture in the context of application development. The main focus of the talk is moving data between Development, QA, Test and Production environments with emphasis on the tools and features the Oracle DBA needs to accomplish his day-to-day tasks including plugging, cloning, monitoring, patching and troubleshooting of pluggable databases.

**Speaker:**



Borislav Ivanov is an Oracle DBA at CNSYS PLC. He has a strong background in networking, Linux and UNIX operating systems and specializes in Oracle Database high availability and disaster recovery solutions. Borislav is an Oracle Certified Professional (OCP) and has been actively working with Oracle products including databases, application servers, operating systems and monitoring tools.



## Bryn Llewellyn, What's new in PL/SQL and EBR in Oracle Database 12c Release 2

*What's new in PL/SQL and EBR in Oracle Database 12c Release 2*

*Bryn Llewellyn, OAK Table, Distinguished Product Manager, ORACLE*

*Conference session, , , *

### **Abstract:**

Oracle Database 12c Release 2 brings important improvements to the PL/SQL language, to the tools that support it, and to edition-based redefinition. Here are some examples. A PL/SQL static expression can be used where before a literal value was required. Built-in functions support the conversion of a PL/SQL variable to its JSON representation, and vice versa. A brand new code coverage tool helps developers prove that their tests are thorough. PL/Scope reports the identifiers used in static SQL and whether it selects, inserts, updates, or deletes. One session can request that another connects to the GUI debugger, and ad hoc SQL is allowed when halted at a breakpoint. The ease of use of EBR is improved. This session explains it all.

### **Speaker:**



Bryn has worked in the software field for more than 35 years. He joined Oracle UK in 1990 at the European Development Center to work on the Oracle Designer team. He transferred to the Oracle Text team and then into Consulting as the Text specialist for Europe. He relocated to Oracle HQ in 1996 to join the Oracle Text Technical Marketing Group. He has been the product manager for PL/SQL since 2001. In 2005, he became responsible, additionally, for edition-based redefinition (EBR for short). This is the Oracle Database capability that supports online application upgrade.

It's hard for Bryn to remember his life before Oracle. He started off doing image analysis and pattern recognition at Oxford University (programming in FORTRAN) and then worked in Oslo, first at the Norwegian Computing Center and then in a startup. In Norway, Bryn programmed in Simula (its inventors were his close colleagues). This language is recognized as the first object-oriented programming language and was the inspiration for Smalltalk and C++.

## Christian Berg, Back2Basics - 50 Shades of #Fail: OBI Worst Practices in Real Life

**Back2Basics - 50 Shades of #Fail: OBI Worst Practices in Real Life**

**Christian Berg, Oracle ACE Associate , Managing Director, Dimensionality**

**Conference session, , , **

### **Abstract:**

Lists of "best practices" as well as "how-to's" on the subject of Oracle BI and all its facets are commonplace and often discussed. Real-life practices, however, are a completely different story. What happens when implementations go astray or dogmatically follow half-knowledge, misconceptions, or conveniently cheap shortcuts? Learn about recurring pitfalls, their origins, their impacts, and most importantly their remedies in an entertaining fashion. However bad you thought your project was, you've seen nothing yet...

Turning the standard best-practice/how-to presentation format on its head, this presentation will look at some real-life OBIEE implementations and where it all went wrong. We'll look at the worst, the weirdest, the most absurd and the wackiest ways the Oracle BI tool is abused:

- How did projects get to these points?
- What were the original misconceptions?
- How to counter these misconceptions?
- Why are "it works" and "it fulfills the requirements" not only not enough but rather dangerous pitfalls?
- Can I actually jeopardize the future of my BI system by choosing a cheap quick and dirty approach?
- Is it ever OK to simply execute without comprehension?

This session will give attendees a deeper understanding of the impact seemingly innocuous design and implementation decisions can have on the stability and success of an entire BI system. An end-to-end view of the stack will be taken, covering areas including logical modelling, analysis design, and architectural topics.

The importance of a holistic view and an appreciation of alternatives will be emphasized as well as the need to understand, comprehend and reflect on the implications of a "best practice" being followed as well as the technology stack simply being misunderstood.

### **Speaker:**



Working with OBI since the day of nQuire's acquisition by Siebel Systems in 2001, Christian Berg has 15 years of business analytics project work in all industries. His architect work spans the value chain of business analytics from source systems through ETL, logical modelling, and data visualization, as well as infrastructure/environment work and dev-ops. Areas of predilection include physical and logical modeling. Christian also teaches OBI for Oracle University and other integrators and end clients.

## Christian Berg, Back2Basics - A Day in the Life of an Oracle BI Query

**Back2Basics - A Day in the Life of an Oracle BI Query**

**Christian Berg, Oracle ACE Associate , Managing Director, Dimensionality**

**Conference session, , , **

### **Abstract:**

Oracle BI is in use for years, has gone through many iterations, and is widespread across projects around the globe. Millions of analyses have been created, deployed, and run billions of times. The actual lifecycle of an Oracle BI query from its inception through to the effective delivery of results may therefore be regarded as a given commodity not requiring a closer look. Few people have regarded an OBI query from this point of view: "How does it get constructed? How does it get translated between the different architectural components and the RPD layers? How, through what, and where does its lifecycle get influenced? Where can we as users/developers/administrators actively intervene with its makeup and structure? Why do we genuinely have to have an understanding of the subtleties of the lifecycle to create successful BI solutions?"

The purpose of this presentation is to serve as an introductory session for beginners while at the same serving as a reflective discussion of a topic regarded as "god-given / it just IS" by the wider population of users (including intermediates). Theoretical examination of the possible steps and paths the query lifecycle can take is depicted with simple but speaking examples. The impact of factors like basic analysis construction in Answers, advanced SQL clauses, caching, business model peculiarities like multi-star queries, snowflaking and LTS modelling as well as physical layer settings like call interfaces, data source parametrization or inclusion of hints in the RPD are to be showcased.

### **Speaker:**



Working with OBI since the day of nQuire's acquisition by Siebel Systems in 2001, Christian Berg has 15 years of business analytics project work in all industries. His architect work spans the value chain of business analytics from source systems through ETL, logical modelling, and data visualization, as well as infrastructure/environment work and dev-ops. Areas of predilection include physical and logical modeling. Christian also teaches OBI for Oracle University and other integrators and end clients.

## **Daniela Milanova, Oracle Cloud Infrastructure as a Service - set of core infrastructure capabilities: compute, storage, network**

***Oracle Cloud Infrastructure as a Service - set of core infrastructure capabilities: compute, storage, network***

***Daniela Milanova, Principal Sales Consultant, ORACLE***

***Conference session, , , All Levels***

### ***Abstract:***

Oracle's infrastructure services that power the Oracle Platform as a Services, including Oracle Database as a Services, and Oracle SaaS businesses are available as set of foundational Oracle Cloud infrastructure services—Compute, Storage and Network. This presentation goes through the Oracle Cloud Infrastructure as a Service components in Oracle portfolio of integrated infrastructure and platform services. It gives an opportunities for organizations to drive innovation and business transformation by increasing business agility, lowering costs, and reducing IT complexity.

### ***Speaker:***



Daniela Milanova currently is Principal Sales Consultant in Oracle's Core Technology Software and Engineered Systems for South and Central Europe including Bulgaria. Before joining Oracle in 2005 she worked as Oracle DBA consultant with strong background in system integration process in configuring scalable and high available database environments. Beside practical experience she has Oracle Certified Professional level of certification in Oracle Database (versions 8, 8i, 9i). Those days she delivered also Oracle University courses in Oracle Database Administration Track.

## **Daniela Milanova, Oracle Database backups to Cloud, Disaster Recovery to & in the cloud; IT Analytics & Log Analytics in the Cloud**

***Oracle Database backups to Cloud, Disaster Recovery to & in the cloud; IT Analytics & Log Analytics in the Cloud***

***Daniela Milanova, Principal Sales Consultant, ORACLE***

***Conference session, , BS, All Levels***

### ***Abstract:***

Cloud Services doesn't mean "move your systems to cloud". It means help in operative daily work by using its hybrid cloud capabilities that can bring low time consumption and cost reducing. Hybrid cloud means backing up encrypted data on cloud, making copies for data protection reasons or disaster recovery, but also means monitoring and management of your environment from the cloud without moving the data there. The session spots on aspects of usage the hybrid cloud components for accomplishing the system's operative tasks.

### ***Speaker:***



Daniela Milanova currently is Principal Sales Consultant in Oracle's Core Technology Software and Engineered Systems for South and Central Europe including Bulgaria. Before joining Oracle in 2005 she worked as Oracle DBA consultant with strong background in system integration process in configuring scalable and high available database environments. Beside practical experience she has Oracle Certified Professional level of certification in Oracle Database (versions 8, 8i, 9i). Those days she delivered also Oracle University courses in Oracle Database Administration Track.

## Dmitry Remizov, Hands on experience to serve Oracle database as a huge Coherence backend

*Hands on experience to serve Oracle database as a huge Coherence backend*

*Dmitry Remizov, Database community local lead, Deutsche Bank*

*Conference session, , , Intermediate*

**Abstract:**

The presentation is going to cover various aspects of Oracle database and Oracle database working together.

Pitfalls and fallacies related to very big data volumes processing(200-300+ GB daily) will be considered.

The presentation would focus on Oracle database side with a very little necessary details regarding Oracle Coherence considering Coherence like a regular client with a specific requirements/behaviour.

**Speaker:**

Dmitry Remizov is Oracle OCE, having 10+ year experience in Oracle technologies (database/Java/Weblogic, etc.), mixed DBA/DBD skills.

He made a set of national level internet projects in Russia, like kontramarka.ru, sonystyle.ru, etc.

Last years he is working for big international bank as a database developers team lead.

<https://dmitryremizov.wordpress.com/> is my personal blog.

## Evgeni Dimitrov, Building Micorservices with Java and Spring Boot

***Building Micorservices with Java and Spring Boot***

***Evgeni Dimitrov, Senior Software Engineer, Nevexis Ltd.***

**Conference session,** , , 

***Abstract:***

Microservices are currently getting a lot of attention. At the same time, there are skeptics in the software community who classify microservices as nothing new. Microservices Architecture pattern has significant benefits – especially when it comes to enabling the agile development and delivery of complex enterprise applications. We will talk about the approach, should we use it, what are the pitfalls and we will show how to build a Microservices Architecture using Spring Boot.

***Speaker:***



I'm doing professional software development for the last 22 years. During my early days I spend lot of time experimenting with Pascal and Assembly language for PC computers. Later I used Delphi to do all of my projects. I worked for a company where we developed Delphi components for Internet applications. Since 2003 I work primary in Java and more specifically JavaEE applications. I use technologies like EJB, JPA, CDI, JSF, Servlets, JAX-RS and more. I'm also the newest member of JSR 377 expert group. The primary goal of that group is to develop specification for Desktop applications API for Java platform that is independent of the implementation(Swing, JavaFX, Eclipse RCP or many others).

## Doychin Bondzhev, The Beauty of Functional programming with Java 8

*The Beauty of Functional programming with Java 8*

*Doychin Bondzhev, Manager, dSoft-Bulgaria Ltd.*

Conference session, , , 

**Abstract:**

Short walk in the world of functional programming with Java.

- What is functional programming
- Pure functions
- Lambda functions
- Java streams
- Parallel programming made easy

All this presented with small examples that will demonstrate the beauty of functional programming.

**Speaker:**



I'm doing professional software development for the last 22 years. During my early days I spend lot of time experimenting with Pascal and Assembly language for PC computers. Later I used Delphi to do all of my projects. I worked for a company where we developed Delphi components for Internet applications. Since 2003 I work primary in Java and more specifically JavaEE applications. I use technologies like EJB, JPA, CDI, JSF, Servlets, JAX-RS and more. I'm also the newest member of JSR 377 expert group. The primary goal of that group is to develop specification for Desktop applications API for Java platform that is independent of the implementation(Swing, JavaFX, Eclipse RCP or many others).



## Georgi Kodinov, What's new in the first MySQL 8.0 development milestone ?

*What's new in the first MySQL 8.0 development milestone ?*

*Georgi Kodinov, Senior Software Development Manager, ORACLE*

*Conference session, , , *

### **Abstract:**

It has been almost a year since MySQL 5.7 was released. It is time to start showing some of the major new things the MySQL team is working on for the next major MySQL release.

Come hear about and discuss the new transactional data dictionary, the SQL roles support, the new component infrastructure and many more.

We will also explain how to get the source code and the binaries to play with.

Now is a great time to try these new features and provide feedback to the development team so we can make them working better for you.

As always, take your MySQL related questions too. I will make sure to provide enough time for Q&A too.

### **Speaker:**



Georgi "Joro" Kodinov started as a MySQL developer in 2006. He's currently a team lead for the MySQL Server General Team. The team handles mysql security, performance monitoring, GIS and client tools. Georgi works out of his home office in Plovdiv, Bulgaria.

## Georgi Moykin, DevOps in Oracle Cloud: 7 Use Cases

*DevOps in Oracle Cloud: 7 Use Cases*

**Georgi Moykin, OCP, OCM, Senior Technology Presales Consultant, ORACLE**

Conference session, , , All Levels

### **Abstract:**

DevOps emphasizes the collaboration and communication of both developers and IT professionals while automating the process of software delivery and infrastructure changes.

Cloud Native applications are shaking up traditional development to gain speed and flexibility.

Containers, Micro Services and APIs are the new building blocks for modern development.

Learn how Oracle Cloud enables DevOps, software and infrastructure as a service, microservices, and distributed computing capability – the key factors required for true cloud native and mobile development and runtime, thru 7 use cases for Bulgarian market.

### **Speaker:**



George has 20 years of combined experience in IT engineering: providing technical and business consulting services on architecture design and implementation of integration, business processes and Cloud solutions with primary focus on Oracle Fusion Middleware and Oracle Cloud Platform domains; performing technology due diligence and trade-off analysis; and defining project implementation success criteria for IT industry.

## Gianni Ceresa, From 0 to a full OBIEE model in 60 minutes

*From Zero to a Full OBIEE model in 60 Minutes*

*Gianni Ceresa, Managing Director, DATAlysis*

Conference session, , , All Levels

### **Abstract:**

OBIEE has the reputation to be that old style BI platform, managed by IT and taking months to deliver every single project. This reputation is very far from the truth as OBIEE is a perfect fit for rapid prototyping and setting up a model a matter of minutes.

In this session we start with an empty setup and end up, 60 minutes later, with a full RPD using relational sources and a federation with an Essbase cube. LIVE! All will be done in real time while telling you about each step. Isn't that fast and agile? And it's OBIEE!

If you are new to OBIEE or already using it but a bit reluctant about "online editing" this is definitely for you.

### **Speaker:**



Gianni Ceresa is an OBIEE enthusiast more widely interested in BI/DW/EPM solutions with a special focus on Oracle products and solutions. Currently working for DATAlysis, his own consulting company in Switzerland, he was a Principal Consultant at Rittman Mead for more than three years, covering positions such as architect, analyst, team lead and developer, bridging together the business and the technical side of the BI world. Gianni previously has had four years of experience in EPM/BI with Hyperion/Oracle products for consultancy companies and before that explored all the possible aspects of web development during five years in multiple roles from Developer to CTO through Project Manager. His other activities include OBIEE training delivery, R&D and supporting the Oracle community on the OTN forums.

## Gianni Ceresa, OBIEE Security: It's a Jungle Out There

**OBIEE Security: It's a Jungle Out There**

**Gianni Ceresa, Managing Director, DATAlysis**

Conference session, , , All Levels

### **Abstract:**

Looking at a week of posts in the OTN forum there is always at least one thread about security. And the questions aren't the scariest part: some of the answers provided by "experts / advanced users" are worst, mixing the different levels of security and what is supposed to be done where.

Making life more difficult in this security jungle OBIEE has some contradictions between these security layers, where in some cases "no access" is weaker than "read", yet "deny" is stronger than "grant"! The inheritance mechanism of Application Roles adds another level of complexity to this already-complex situation.

Putting all this together many developers aren't really sure what happen when a user has multiple application roles assigned to him with contradictory security rules.

There is not a simple single and unique answer to this topic but it's possible to cover most of the needs by adopting a generic security strategy that we will present here, like a kind of best practice to start with and extend based on requirements. This approach has been refined over the course of numerous client projects, many threads on OTN, and a reflection on the multiple available solutions. Whilst no solution can be truly universal the model that we present will act as a benchmark by which to judge the strengths (or weaknesses) of custom security solutions implemented for OBIEE elsewhere.

### **Speaker:**



Gianni Ceresa is an OBIEE enthusiast more widely interested in BI/DW/EPM solutions with a special focus on Oracle products and solutions. Currently working for DATAlysis, his own consulting company in Switzerland, he was a Principal Consultant at Rittman Mead for more than three years, covering positions such as architect, analyst, team lead and developer, bridging together the business and the technical side of the BI world. Gianni previously has had four years of experience in EPM/BI with Hyperion/Oracle products for consultancy companies and before that explored all the possible aspects of web development during five years in multiple roles from Developer to CTO through Project Manager. His other activities include OBIEE training delivery, R&D and supporting the Oracle community on the OTN forums.

## Joze Senegacnik, Discussion Over Beers "What to expect in the Cloud"

### *Discussion Over Beers "What to expect in the Cloud"*

**Joze Senegacnik, Oracle ACE director 🏆, OAK Table, DBProf**

**Tim Hall, Oracle ACE director 🏆, OAK Table, DBA / Developer, ORACLE-BASE.com**

**Martin Widlake, Oracle ACE director 🏆, OAK Table, Consultant, ORA600 Limited**

**Bryn Llewellyn, OAK Table, Distinguished Product Manager, ORACLE**

**Conference session, , , **

#### **Abstract:**

Discussion over beers has become kind of tradition in last years. Also this time we will invite renowned speakers to share with us their experience and answer your questions. You can discuss or just seat there and have a beer while you enjoy in the debate.

#### **Speaker:**



Joze Senegacnik has more than 28 years of experience in working with Oracle products. He began in 1988 with Oracle Database version 4 while working for the City of Ljubljana, where he had charge over the city's municipal and geographic information systems. From 1993 to 2003, he worked in developing GIS systems for the Surveying and Mapping Authority of the Republic of Slovenia, and in the development of applications for other governmental institutions, all based on the Oracle database. More recently, he has specialized in performance optimization, having developed his own toolset for monitoring performance and analyzing trace files. Joze is an internationally recognized speaker, and a member of the highly respected OakTable Network (oaktable.net). He was awarded Oracle ACE and Oracle ACE Director membership for his long record of positive contributions to the Oracle community.



Tim Hall is an Oracle DBA/Developer and well known Oracle blogger at <https://oracle-base.com>. If that isn't enough, he's written two books and over 700 articles, is an Oracle ACE Director, OakTable member and has presented at numerous user groups and conferences worldwide, as well as a series of 2-day presentations as part of the "Oracle University Celebrity Series".



Martin Widlake is an independent Oracle consultant who has been working with the database since 1992, mostly as a development DBA, database designer and performance engineer. He regularly presents on these topics, both within the UK and internationally. He is an active member of the UK Oracle User Group, deputy chairing the RAC Special Interest Group and helping define the content of the annual conferences. Martin is also a member of the OakTable network and an Oracle ACE Director.



Bryn has worked in the software field for more than 35 years. He joined Oracle UK in 1990 at the European Development Center to work on the Oracle Designer team. He transferred to the Oracle Text team and then into Consulting as the Text specialist for Europe. He relocated to Oracle HQ in 1996 to join the Oracle Text Technical Marketing Group. He has been the product manager for PL/SQL since 2001. In 2005, he became responsible, additionally, for edition-based redefinition (EBR for short). This is the Oracle Database capability that supports online application upgrade. It's hard for Bryn to remember his life before Oracle. He started off doing image analysis and pattern recognition at Oxford University (programming in FORTRAN) and then worked in Oslo, first at the Norwegian Computing Center and then in a startup. In Norway, Bryn programmed in Simula (its inventors were his close colleagues). This language is recognized as the first object-oriented programming language and was the inspiration for Smalltalk and C++.

## Joze Senegacnik, Interpreting AWR Reports

### *Interpreting AWR Reports*

**Joze Senegacnik, Oracle ACE director 🏆, OAK Table, DBProf**

**Conference session, 🇬🇧, DBA, All Levels**

#### **Abstract:**

How one can interpret that big pile of numbers you get in AWR report? Do you need a crystal ball, go to a fortune teller or just use a systematic approach and find out what those numbers can reveal you. The latter will be sufficient.

In this session we will use drill down approach for the interpretation of the AWR report and find out what mean different part of the report and how they are interrelated.

#### **Speaker:**



Joze Senegacnik has more than 28 years of experience in working with Oracle products. He began in 1988 with Oracle Database version 4 while working for the City of Ljubljana, where he had charge over the city's municipal and geographic information systems. From 1993 to 2003, he worked in developing GIS systems for the Surveying and Mapping Authority of the Republic of Slovenia, and in the development of applications for other governmental institutions, all based on the Oracle database. More recently, he has specialized in performance optimization, having developed his own toolset for monitoring performance and analyzing trace files. Joze is an internationally recognized speaker, and a member of the highly respected OakTable Network ([oaktable.net](http://oaktable.net)). He was awarded Oracle ACE and Oracle ACE Director membership for his long record of positive contributions to the Oracle community.

## Julian Dontcheff, The benefits and simplicity of Oracle Cloud Infrastructure: IaaS

*The benefits and simplicity of Oracle Cloud Infrastructure: IaaS*

**Julian Dontcheff, OCP, OCM, Oracle ACE director 🏆, Managing Director, Accenture Global Database Lead, Accenture Enkitech Group**

**Conference session, 🇬🇧, 🇨🇸, All Levels**

### **Abstract:**

IaaS is the fastest growing area of public cloud computing. Oracle Cloud infrastructure as a service with built-in security and high availability offers elastic compute, networking, and storage to help any company quickly reach both value and productivity out of the business. The presentation covers the benefits of Oracle IaaS over Amazon and Azure and we show how fast and easy it is to set-up IaaS services in the Oracle Public Cloud.

### **Speaker:**



First Oracle Certified Master in Europe, Oracle ACE Director, more than 20 years of database experience

## Maria Gyurova, Implementing BI solutions with Oracle BI Applications

*Implementing BI solutions with Oracle BI Applications*

*Maria Gyurova, OCP, Oracle BI Specialist, Peak Indicators*

Conference session, , , All Levels

**Abstract:**

This session introduces how to implement out-of-the-box BI Solutions. It is focused on Oracle Business Intelligence (BI) Applications which enable organizations to gain greater value from a range of data sources, including E-Business Suite, PeopleSoft, JD Edwards, Siebel, On-Premise Applications. The presentation demonstrates key capabilities of modules like Oracle HR, Financials, Procurement and Spend Analytics. Attend the session to learn about the benefits of a market leading BI platform which is built using OBIEE and ODI.

**Speaker:**



Maria is a BI Consultant with over 10 years of experience with a primary focus on Oracle Database technology and data integration products. Maria is an OCP DBA 9i, 10g, 11g and has presented at the BGOUG, SIOUG and UKOUG. Maria has participated in a variety of projects implementing Data Warehouse and Business Intelligence solutions through the full project life cycle. Maria is a subject matter expert in Data Integration area and is open to share the knowledge to the audience. She is salsa dancer having a tall husband and a lovely daughter.



## Martin Widlake, The Forgotten Performance Tuning Trick - Clustering your Data

*The Forgotten Performance Tuning Trick - Clustering your Data*

*Martin Widlake, Oracle ACE director 🏆, OAK Table, Consultant, ORA600 Limited*

*Conference session, 🇬🇧, DBA, Intermediate*

### **Abstract:**

As data volumes continue to increase, SQL performance and tuning remain as critical as ever. But it is not all about Explain Plans, using hints and adding indexes.

How you structure your data and how you cluster your information together is vital to getting the best performance from your database - and it is often overlooked.

By using Index Organised Tables, Cluster, Partitioning, normal indexes and other tricks, you can not only access your data quicker, you can greatly increase the use of your database's memory.

All the content of this talk is based on real-world experience and examples of increasing SQL performance for customers.

### **Speaker:**



Martin Widlake is an independent Oracle consultant who has been working with the database since 1992, mostly as a development DBA, database designer and performance engineer. He regularly presents on these topics, both within the UK and internationally. He is an active member of the UK Oracle User Group, deputy chairing the RAC Special Interest Group and helping define the content of the annual conferences. Martin is also a member of the OakTable network and an Oracle ACE Director.

## Martin Widlake, The Heart of Oracle - How the core RDBMS works

*The Heart of Oracle - How the core RDBMS works*

**Martin Widlake, Oracle ACE director 🏆, OAK Table, Consultant, ORA600 Limited**

**Conference session, 🇬🇧, DB, All Levels**

### **Abstract:**

How does the Oracle RDBMS actually work? In this session I'll tell you how. All of it. In an hour. Well, the key processes and activities anyway. This session require no previous knowledge of oracle internals but explains the core functionality of the RDBMS.

The session will help you better understand SQL and database performance, how data moves between disk, memory & your queries, how Oracle ensures you see a consistent set of data and, most importantly, what a "Consistent Get" actually is. And why the Datafiles are less important then Redo.

If you can write a select statement you can understand everything in this talk - and might end up knowing some things most oracle professionals don't know. It really is suitable to all levels.

### **Speaker:**



Martin Widlake is an independent Oracle consultant who has been working with the database since 1992, mostly as a development DBA, database designer and performance engineer. He regularly presents on these topics, both within the UK and internationally. His an active member of the UK Oracle User Group, deputy chairing the RAC Special Interest Group and helping define the content of the annual conferences. Martin is also a member of the OakTable network and an Oracle ACE Director.

## Michal Simonik, Joins – which, when and why

*Joins – which, when and why*

*Michal Simonik, OCP, Freelancer, Private Individual*

Conference session, , , 

### **Abstract:**

Imagine yourself in a situation where you are tuning your SQL query and it simply does not give you the performance you would like it to have. You stare at the execution plan and you see this:

```
-----  
| Id | Operation      | Name  | Rows |  
-----  
|  0 | SELECT STATEMENT |      | 2254 |  
|*  1 | HASH JOIN       |      | 2254 |  
|*  2 | TABLE ACCESS FULL| ARTISTS | 32 |  
|*  3 | TABLE ACCESS FULL| CARDS  | 2254 |  
-----
```

Is it good? Is it bad? Ok ... I see HASH JOIN but what does it actually mean, when Oracle says: “I’m going to use a HASH JOIN for that”? Shouldn’t it be NESTED LOOP? Which one is good for what and how it is performed?

In this session on join techniques we will answer these kinds of questions. We’ll go through explanation and examples which demonstrate best usage of each join technique. Last but not least we will discuss how Oracle can leverage good indexing in our joins.

### **Speaker:**



Michal is an independent Oracle consultant and lecturer. He is working with Oracle databases since 2003. His primary role is SQL optimization, design of data models, finding solutions to problems within the Oracle database and employee training.

You can learn more at <https://cz.linkedin.com/in/michalsimonik> or [www.michalsimonik.com](http://www.michalsimonik.com)

## Mihail Stoynov, JShell - Java 9 finally gets a REPL environment

*JShell - Java 9 finally gets a REPL environment*

*Mihail Stoynov, Consultant, BG Java User Group*

*Conference session, , , *

### **Abstract:**

Many compiled languages include tools (usually called REPL) for statements interpretation. Using these tools you can test code snippets rapidly without creating project.

JShell will be introduced in Java 9.

JShell is a very useful tool for prototyping and testing Java code snippets. There is also a JShell Java api which allows you to evaluate JShell from java.

### **Speaker:**



Mihail is a security and software consultant, trainer and author. His resume includes projects in companies like Saudi Aramco, Boeing, HP, Siemens, USAF, several foreign banks and government entities. Mihail is the co-author of 6 books on software, and has 10 years of training experience in local and foreign companies and most of the local universities.

## Neil Chandler, Implementing FarSync and Fast Connect Failover

### *Implementing FarSync and Fast Connect Failover*

**Neil Chandler, Oracle ACE , Independent Consultant, Chandler Systems Ltd**

**Conference session, , , All Levels**

#### **Abstract:**

When sat in a meeting discussing Recovery Point Objectives and Recovery Time Objectives, the CIO will always say "No Downtime! No Data loss!"

What is the most effective way of approaching this hard-to-achieve goal? How did we minimise downtime and data loss?

This presentation shows how we reached the decision points for the application, which options were discarded and the final implementation of technology to approach the requirements.

And what simply was not possible without application re-engineering.

#### **Speaker:**



Neil has been working in IT since 1988 as a Cobol and Assembler Programmer on IBM Mainframes, and started DBA-ing all releases of Oracle since v6.0.29. sometime around 1991/2 both in a Production Support and Development capacity.

He has ran global DBA and Development teams and is currently an independent Oracle DBA Architect consultant.

As well as Oracle, he has extensive experience using SQL Server 6.5-2012 and has worked on and administered most flavours of Unix; (AIX / Linux (RH, OEL & SLES) / Solaris / HP-UX / Tru-64).

Neil is an Oracle ACE, is the Chairman of the UKOUG RAC, Cloud, Infrastructure and Availability SIG for the UK Oracle User Group, and is currently responsible for the Database Stream planning and selection for the UKOUG Tech16 Conference.

## Neil Chandler, Why Has My Plan Changed? Top 7 Plan Stability Pitfalls and How To Avoid Them!

*Why Has My Plan Changed? Top 7 Plan Stability Pitfalls and How To Avoid Them!*

*Neil Chandler, Oracle ACE , Independent Consultant, Chandler Systems Ltd*

*Conference session, , , All Levels*

### **Abstract:**

When you write SQL, Oracle runs it through the Optimiser to determine the fastest way to access the data.

This access path sometimes changes without anyone noticing.

Sometimes it's faster.

Sometimes it's slower. Dramatically, catastrophically slower.

Why doesn't Oracle always get it right? Why does it change?

This presentation will answer the question Why - through the use of live demonstrations, and explain what we can do to manage SQL execution plans within the database and minimise the opportunity for Oracle to get it wrong.

### **Speaker:**



Neil has been working in IT since 1988 as a Cobol and Assembler Programmer on IBM Mainframes, and started DBA-ing all releases of Oracle since v6.0.29. sometime around 1991/2 both in a Production Support and Development capacity. He has ran global DBA and Development teams and is currently an independent Oracle DBA Architect consultant. As well as Oracle, he has extensive experience using SQL Server 6.5-2012 and has worked on and administered most flavours of Unix; (AIX / Linux (RH, OEL & SLES) / Solaris / HP-UX / Tru-64). Neil is an Oracle ACE, is the Chairman of the UKOUG RAC, Cloud, Infrastructure and Availability SIG for the UK Oracle User Group, and is currently responsible for the Database Stream planning and selection for the UKOUG Tech16 Conference.

## Nigel Bayliss, The Oracle Optimizer – Upgrading to Oracle Database 12c Without Pain

*The Oracle Optimizer – Upgrading to Oracle Database 12c Without Pain*

**Nigel Bayliss, Optimizer Product Manager, ORACLE**

Conference session, , , 

### **Abstract:**

The Oracle Optimizer has evolved significantly over the years, so you can expect to discover lots of new features in the latest database release. When upgrading to Oracle Database 12c, DBAs and architects often wish to mitigate the risk of performance regression by implementing these features in a controlled and incremental manner. This session explains how to achieve this by introducing the most significant changes we've made to the Oracle Optimizer followed by an exploration of how these features can be controlled and constrained. The session also presents how the changes to the Optimizer can influence the way a system is managed through the upgrade process and throughout the development-to-production life-cycle.

### **Speaker:**



Nigel has worked with Oracle technology for 28 years. He joined Oracle in 1996 and has been involved in a wide variety of roles including development, benchmarking, consulting and pre-sales. He is part of the Oracle Data Warehouse Product Management team and is the product manager for the Oracle Optimizer along with other aspects of Oracle's Data Warehousing core functionality.

## Philip Stoyanov, Versioning functionality in Oracle SQL Developer Data Modeler

*Versioning functionality in Oracle SQL Developer Data Modeler*

*Philip Stoyanov, Senior software development manager, ORACLE*

*Conference session, , , *

**Abstract:**

Starting with presentation of design into file system will cover topics like good organization for several designs, system types directory, the meaning of local (non versioned) files. Going through basic functionality, possible conflicts and ways to avoid or resolve them also will be covered. Planning, changes in Data Modeler 4.2 and usage of third party tools are also among presented topics.

**Speaker:**



In software development since 1982. Current position - Senior software development manger for Oracle SQL Developer Data Modeler.



## Richard Martens, Bootstrap authentication and authorization in Oracle APEX

*Bootstrap authentication and authorization in Oracle APEX*

*Richard Martens, Oracle ACE ♣, founding partner, SMART4Apex*

*Conference session, , , All Levels*

### **Abstract:**

Authentication and Authorization do not need an introduction. But how nice would it be to have a standard implementation from which you can start building your own application?

The presentation introduces a barebone application that has a flexible authentication and authorization already built in.

It is inspired by the security part of the presentation "5 Lifehacks for the Apex Development environment" given by Oracle employee Koen Lostrie at Apex World in March 2016.

1. The authentication scheme
  - 1.1 Using external authentication schemes (ie the Google Authentication plugin)
2. The authorization scheme
3. Users and Roles
  - 3.1 Creating a new user
  - 3.2 Creating a new role
4. Applying a role to the authorization scheme


### **Speaker:**



Richard Martens has been involved in information technology for more than 15 years. He started as a web developer using the Oracle database as no more than data storage. Richard has been responsible for major European multilingual websites and has been working with the Oracle database since 2000. During those years, he developed himself using a multitude of technologies and specialized in PL/SQL and Oracle APEX. With APEX, he combines the things he loves most: the Oracle database and web technologies.

## Richard Martens, Google Apps integration in Oracle APEX

**Google Apps integration in Oracle APEX**

**Richard Martens, Oracle ACE  , founding partner, SMART4Apex**

**Conference session, , , **

### **Abstract:**

Google Apps is a great platform for your everyday activities. Using a few techniques, you'll have the full potential at your disposal to use within your APEX application. This presentation will cover logging in using a Google account, storing data in the Google Drive and Calendar, and reading and writing email.

Attendees will get a technical insight for:

1. Using Google Authentication

Attendees will get insight in the authentication process and how to implement both server-side as client-side.

2. The Google Calendar

Reading data as well as storing data will be covered.

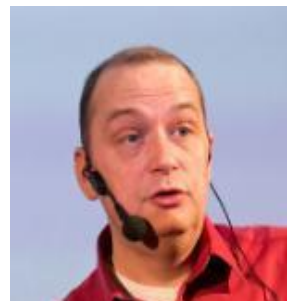
3. The Google Drive

Reading and writing from the google drive means creating Google Documents (Word), Google Spreadsheets etc. I will cover Documents and Spreadsheets.

4. Sending mail using Gmail

When integrating you apex-application with Google Apps, it is a must-have to be able to have the application send email using Google as well.

### **Speaker:**



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## Robert Lockard, Holistic Database Security

### *Holistic Database Security*

**Robert Lockard, Oracle ACE ♣, President, Oraclewizard**

**Conference session, , , **

#### **Abstract:**

High level: For years we have been locking down the software to protect information. This presentation puts the focus where it belongs: identifying, protecting, and selecting the correct tools to protect your data.

Starting with a brief history of security breaches and the impact to both companies and consumers, the presenter will move through a methodology of identifying sensitive information, creating a risk matrix, and which tools are available to mitigate information leaks.

Subjects covered:

Attack Vector: how does your information leak. Including an open and frank discussion of organized gangs (ie Anonymous)

Risk identification and mitigation. Identify the risks in your system and come up with mitigation strategies.

Audit. Identify what to audit based on your risks. Audit too much and you will get bogged down, too little audit and you may miss a breach of security.

Database encryption. Encrypting the database, the tablespace, the tables or atomic data? What is the cost and how do you accomplish it.

Network encryption. What are the risks of man in the middle attack? How to setup network encryption.

Backup encryption. What are the risks of losing a backup tape? How to encrypt backups using RMAN.

Data redaction. Who gets to see sensitive data? Do you want to expose credit card numbers or other PII to users? Introduction on how to setup data redaction.

Data Masking. Do you refresh the test or QA environment from production? Does your need your testers to have access to your production data?

Database Vault. Are you at risk for an insider attack? Does your DBA really need to access sensitive data?

#### **Speaker:**



Rob is an Oracle Database administrator, designer, developer, and project manager. For the past twenty years, Rob has specialized in Financial Intelligence, including tracking of money laundering, terrorist money and identity theft, along with Cyber Crimes tracking attacks on information systems. Within this focus, Rob evaluates, designs, and secures Oracle Database environment from threats both external and internal. Rob has long prioritized sharing his expertise in secure design with the user community, with presentations at conferences such as ODTUG's Kscope, blogging and webcasts. Rob enjoys flying vintage aircraft, racing sailboats, photography, and technical diving. He owns and flies the "Spirit of Baltimore Hon," a restored 1948 Ryan Navion, and lives in Glen Burnie Maryland on Marley Creek.

## Robert Lockard, Oracle PL/SQL Secure Coding practices.

*Oracle PL/SQL Secure Coding practices.*

**Robert Lockard, Oracle ACE ♣, President, Oraclewizard**

**Conference session, , , All Levels**

### **Abstract:**

This is a one hour session that is an expansion to “Holistic Database Security” presentation.

We will examine common errors in pl/sql that leads to sql injection attacks. This session will define the sql injection attack vector and various ways to write code that is immune to sql injection.

-We will be covering application architectures that separate data from code.

-We will be covering Oracle PL/SQL 12C features that limit access paths to data thereby implementing part of the trusted path.

-We will be covering other PL/SQL features from before 12C that help to ensure your pl/sql does what you expect it to do.

### **Speaker:**



Rob is an Oracle Database administrator, designer, developer, and project manager. For the past twenty years, Rob has specialized in Financial Intelligence, including tracking of money laundering, terrorist money and identity theft, along with Cyber Crimes tracking attacks on information systems. Within this focus, Rob evaluates, designs, and secures Oracle Database environment from threats both external and internal. Rob has long prioritized sharing his expertise in secure design with the user community, with presentations at conferences such as ODTUG's Kscope, blogging and webcasts. Rob enjoys flying vintage aircraft, racing sailboats, photography, and technical diving. He owns and flies the “Spirit of Baltimore Hon,” a restored 1948 Ryan Navion, and lives in Glen Burnie Maryland on Marley Creek.

## Svetoslav Gyurov, Protecting single instance databases with Oracle Clusterware 12c

*Protecting single instance databases with Oracle Clusterware 12c*

*Svetoslav Gyurov, OCP, OCM, Oracle ACE ♣, Professional Services Team Lead, Red Stack Tech*

*Conference session, , , All Levels*

### **Abstract:**

Database availability is one of the most important DBA's responsibility. Bringing back the database after a failure might take a long time and may have a huge impact on business and operations. Starting with Oracle 10.2, Oracle Clusterware provides the ability to protect any third party application in a cold failover cluster. This session provides an overview of a real world implementation of failover clusters using Oracle Clusterware 12c to protect single instance databases. It gives a general overview of the cluster basics, implementation details, good practices and common pitfalls. The presentation addresses other key areas of database availability like monitoring, use of a standby and client failover practices.

### **Speaker:**



Svetoslav is Professional Services Team Lead at Red Stack Teck, UK. He provides consultancy for enterprise customers throughout the UK. Deployment and upgrade of Exadata database machines, implementation of high availability and disaster recovery solutions with Oracle Database. System design and implementation of various Oracle technologies – Database, Exadata, ASM, CRS, RAC, Data Guard, Cloud Control, GoldenGate.

## Svilen Stoyanov, Oracle Modern Cloud Applications

**Oracle Modern Cloud Applications**

**Svilen Stoyanov, Application Sales, ORACLE**

**Conference session, , APPS, All Levels**

### **Abstract:**

Oracle is unique in that it offers the most complete connected cloud stack in the market today.

Oracle SaaS Cloud Applications have built-in 130+ Modern Best Practice processes across all applications: ERP, EPM, HCM, SCM,CX, so you don't need to re-create the business process wheel from scratch.... and all of this is built on the same standards based Oracle Cloud Platform

### **Speaker:**



Technically sophisticated and business savvy professional with over 18 years of proven IT experience, I like to take a challenging business issue and to find a cost-effective solution for it. Cloud computing had made that possible in several areas. Being part of the team successfully Introduced Microsoft O365 to Bulgarian market, I've been able to help customers in their strategic planning and IT operations management. Now at Oracle, I am able to offer the complete suite of business applications, through which to improve customer's satisfaction, to increase the efficiency of the sales teams, to provide real-time meaningful marketing insights, to manage the entire recruit-to-retire process and to have an agile ERP solution.

## Tim Hall, It's raining data! Oracle databases in the cloud.

*It's raining data! Oracle databases in the cloud.*

**Tim Hall, Oracle ACE director 🏆, OAK Table, DBA / Developer, ORACLE-BASE.com**

**Conference session, 🇬🇧, DB, Intermediate**

### **Abstract:**

Wherever you turn someone is talking about cloud databases or database as a service (DBaaS). This presentation will show you how you can run your Oracle databases in the cloud using a variety of providers (Amazon Web Services, Microsoft Azure and Oracle Cloud) and discuss the pros and cons of these services compared to your on-premise installations.

### **Speaker:**



Tim Hall is an Oracle DBA/Developer and well known Oracle blogger at <https://oracle-base.com>. If that isn't enough, he's written two books and over 700 articles, is an Oracle ACE Director, OakTable member and has presented at numerous user groups and conferences worldwide, as well as a series of 2-day presentations as part of the "Oracle University Celebrity Series".

## Tim Hall, Pluggable Databases - What they will break and why you should use them anyway!

*Pluggable Databases - What they will break and why you should use them anyway!*

**Tim Hall, Oracle ACE director 🏆, OAK Table, DBA / Developer, ORACLE-BASE.com**

**Conference session, 🇬🇧, DB, Intermediate**

### **Abstract:**

The multitenant architecture was "the" headline feature announced in Oracle Database 12c. On the surface pluggable databases sounds great, but are they really? This presentation will explain the parts of your systems that will break if you move to pluggable databases, but why you should probably use them anyway.

### **Speaker:**




Tim Hall is an Oracle DBA/Developer and well known Oracle blogger at <https://oracle-base.com>. If that isn't enough, he's written two books and over 700 articles, is an Oracle ACE Director, OakTable member and has presented at numerous user groups and conferences worldwide, as well as a series of 2-day presentations as part of the "Oracle University Celebrity Series".



## Timo Raitalaakso, Hub insert - ORA-00001

*Hub insert - ORA-00001*

*Timo Raitalaakso, Oracle ACE , Senior Database Specialist, Solita*

*Conference session, , , All Levels*

### **Abstract:**

This presentation deals with insert clauses to a table, which has a unique constraint. Hub is used in Data Vault modelling method of a table type, which has a unique business key. The hub has also a single column primary key. Surrogate key is implemented in 1.0 Data Vault with

sequence numbers and the 2.0 case, with the hash value of the business key. Hub is therefore a mapping from a key business to used surrogate key. A similar structure is found also in OLTP models. When the table is populated the unique constraints must be taken into account. This presentation goes through problems, including the handling of null and parallelism. In addition, possible workarounds for problems are presented.

### **Speaker:**



Timo Raitalaakso has worked for Solita Oy in Finland and Oracle database projects since 2001. Prior to that, at the final stage of the studies Tampere University of Technology he served as assistant for the courses databases, and program architectures. 2012 Oracle ACE. Blog <http://rafudb.blogspot.fi> twitter @timoraitalaakso

# Toon Koppelaars & Bryn Llewellyn, A Real-World Comparison of the NoPlsql and Thick Database Paradigms – Part 1

*A Real-World Comparison of the NoPlsql and Thick Database Paradigms – Part 1*

*Toon Koppelaars, OAK Table, Consulting Member of Technical Staff (Real World Performance Group), ORACLE*

*Bryn Llewellyn, OAK Table, Distinguished Product Manager, ORACLE*

Conference session, , , 

## **Abstract:**

This is a two part session. Please read the abstract for Part 2 and come to both sessions.

The NoPlsql paradigm starts with an object oriented domain model in the middle tier. This leads naturally to treating the database as a bag of tables, so that primitive SQL statements express its API. The Thick Database paradigm starts with the design of the relational model. This leads naturally to allowing client-side code only to call PL/SQL subprograms, so that all SQL is done from PL/SQL. These two paradigms are mutually incompatible.

In our first session, we show, based on real-world use cases, how the NoPlsql paradigm brings problems with correctness, security, and performance, and we note that projects that adopt the NoPlsql paradigm use most of their resources on developing plumbing code rather than code that implements actual business functionality. These problems are just the tip of the iceberg and we explain how the NoPlsql paradigm also brings maintenance nightmares.

## **Speaker:**



Toon has been part of the Oracle eco-system since 1987. He is currently a member of Oracle's Real World Performance team. The RWP-team troubleshoots application performance issues in and around the DBMS. The way applications currently use (or rather, abuse) the DBMS, is often at the root of these performance issues. Prior to joining the RWP team, Toon has been mainly involved in database application development. His special interests are: architecting applications for performance and scalability, database design, and business rules / constraints modelling. He is a long-time champion of the Thick Database paradigm.



Bryn has worked in the software field for more than 35 years. He joined Oracle UK in 1990 at the European Development Center to work on the Oracle Designer team. He transferred to the Oracle Text team and then into Consulting as the Text specialist for Europe. He relocated to Oracle HQ in 1996 to join the Oracle Text Technical Marketing Group. He has been the product manager for PL/SQL since 2001. In 2005, he became responsible, additionally, for edition-based redefinition (EBR for short). This is the Oracle Database capability that supports online application upgrade. It's hard for Bryn to remember his life before Oracle. He started off doing image analysis and pattern recognition at Oxford University (programming in FORTRAN) and then worked in Oslo, first at the Norwegian Computing Center and then in a startup. In Norway, Bryn programmed in Simula (its inventors were his close

## Toon Koppelaars & Bryn Llewellyn, A Real-World Comparison of the NoPlsql and Thick Database Paradigms – Part 2

### *A Real-World Comparison of the NoPlsql and Thick Database Paradigms – Part 2*

**Toon Koppelaars, OAK Table, Consulting Member of Technical Staff (Real World Performance Group), ORACLE Bryn Llewellyn, OAK Table, Distinguished Product Manager, ORACLE**

Conference session, , , 

#### **Abstract:**

This is a two part session. Please read the abstract for Part 1 and come to both sessions.

The NoPlsql paradigm starts with an object oriented domain model in the middle tier. This leads naturally to treating the database as a bag of tables, so that primitive SQL statements express its API. The Thick Database paradigm starts with the design of the relational model. This leads naturally to allowing client-side code only to call PL/SQL subprograms, so that all SQL is done from PL/SQL. These two paradigms are mutually incompatible.

In our second session, we turn to the Thick Database paradigm, rehearse the reasons for its superiority, and explain that it implies more than just allowing database calls to invoke only PL/SQL subprograms. We formalize a layered code classification scheme which leads to optimal understandability and maintainability of both your PL/SQL and your SQL code – which properties bring the maximum probability of correct behavior. We will convince participants that adopting the Thick Database Paradigm guarantees the avoidance of the awful problems brought by the NoPlsql paradigm and establishes the database tier as a reliable central service provider in the application landscape. We will debunk the myth that “moving business logic out of the data tier and into the middle tier” improves scalability.

#### **Speaker:**



Toon has been part of the Oracle eco-system since 1987. He is currently a member of Oracle's Real World Performance team. The RWP-team troubleshoots application performance issues in and around the DBMS. The way applications currently use (or rather, abuse) the DBMS, is often at the root of these performance issues. Prior to joining the RWP team, Toon has been mainly involved in database application development. His special interests are: architecting applications for performance and scalability, database design, and business rules / constraints modelling. He is a long-time champion of the Thick Database paradigm.



Bryn has worked in the software field for more than 35 years. He joined Oracle UK in 1990 at the European Development Center to work on the Oracle Designer team. He transferred to the Oracle Text team and then into Consulting as the Text specialist for Europe. He relocated to Oracle HQ in 1996 to join the Oracle Text Technical Marketing Group. He has been the product manager for PL/SQL since 2001. In 2005, he became responsible, additionally, for edition-based redefinition (EBR for short). This is the Oracle Database capability that supports online application upgrade. It's hard for Bryn to remember his life before Oracle. He started off doing image analysis and pattern recognition at Oxford University (programming in FORTRAN) and then worked in Oslo, first at the Norwegian Computing Center and then in a startup. In Norway, Bryn programmed in Simula (its inventors were his close

colleagues). This language is recognized as the first object-oriented programming language and was the inspiration for Smalltalk and C++.

## Wolfgang Scherrer, Oracle Database as Barcode / RFID Solution Provider

*Oracle Database as Barcode / RFID Solution Provider*

*Wolfgang Scherrer, Consultant / Manager, infomArt GmbH*

*Conference session, , , *

### **Abstract:**

Barcode or RFID are very helpful to identify item's in production, warehousing, retail and transportation.

As part of a document management solution they can help to identify physical documents, binders, folders etc.

In the area of fixed asset management they are useful not only to identify fixed assets, like PC, printers etc. You also can easy use them them for location identification like rooms, buildings, etc.

The session will show how easy it is to print barcodes, create RFID labels directly out of the database via PLSQL if you are using approved printer/scanner technology .

### **Speaker:**



- IT Project Manager, IT Solution Architect, Process and Data Management
- Over 25 years work experience in IT Solutions. > 17 years of Oracle experience
- More than 25 years international project experience in IT and organizational projects. (> 15 years MENA region)
- Strong knowledge in OD and IT project management (Cost, Risk, Schedule, Work package, Customer requirements etc.)
- Strong knowledge and experience in process development and transition into technology. (Data, Financial, HRMS, Supply Chain, Service, ALM, Procurement, CRM, QM)
- State certified engineer in IT and Communication Technology (1984).
- Master Degree in Business Administration (VWA) (1990).
- ISO 9000 QM Certificates
- ITIL Foundation Certified

## Wolfgang Scherrer, Oracle APEX for data management, data consolidation, data integration

*Oracle APEX for data management, data consolidation, data integration*

*Wolfgang Scherrer, Consultant / Manager, infomArt GmbH*

*Conference session, , , *

### **Abstract:**

Data management in deployed and complex environments, consisting of databases from various vendors (Like IBM, Progress, Microsoft) can be a nightmare if cost is a factor!

With Oracle APEX and Oracle DB standard functions you are able to setup and run a very cost-efficient platform to get control of your deployed data sources. Even you can use it to consolidate data, do data cleansing, data quality check and create online dashboards for the business managements.

Session will show how to develop such an environment and how to use it from a business perspective.

### **Speaker:**



- IT Project Manager, IT Solution Architect, Process and Data Management
- Over 25 years work experience in IT Solutions. > 17 years of Oracle experience
- More than 25 years international project experience in IT and organizational projects. (> 15 years MENA region)
- Strong knowledge in OD and IT project management (Cost, Risk, Schedule, Work package, Customer requirements etc.)
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## Zhivko Angelov, Case Study: Building BI Solution using Oracle tools

**Case Study: Building BI Solution using Oracle tools**

**Zhivko Angelov, Head of Business Intelligence, Societe Generale Expressbank**

**Conference session, , BI, All Levels**

### **Abstract:**

The presentation will cover a practical case study from 2015-2016: Development and implementation of Business Intelligence solution in Finance sector in BG using the latest version of several Oracle technologies.

Structure of the presentation:

- \* Solution introduction
- \* Deliverables for the final customer
- \* Solution architecture - platform, components, data flows
- \* Solution components & tools - Oracle Database 12c, Oracle Data Integrator 12c, Oracle Business Intelligence Foundation Suite 12c, Oracle APEX 12c, Oracle Data Modeler 4.0.2.
- \* Challenges and lessons learnt
- \* Future steps

### **Speaker:**



- \* PMP-Certified project manager
- \* Oracle-Certified expert with strong expertise on wide set of Oracle technologies
- \* Visionary Business Intelligence and Data Warehousing consultant and architect
- \* Strong experience in financial industry (both as consultant and employee)
- \* 14+ years of overall professional experience
- \* 9+ years of experience on managerial position
- \* 3+ years of international experience

<https://bg.linkedin.com/in/zhivko-angelov-pmp-297b3b35>