

FRANK NIMPHIUS

Duitsland, Oracle, Oracle ACE

If You Can Stand the Heat... - The Oracle Mobile Cloud Service Cooking Show.

Beside of menu cards, cook books and recipes, what really matters in cooking is the dish served for tasting. This Oracle Mobile Cloud Service (MCS) master-class is a scripted 90 minutes cooking event during which the chefs operate and handle the Oracle MCS pots and pans while performing a live training demonstration of how to work with Oracle Mobile Cloud. In 90 minutes you learn enough about mobile backends, platform APIs, SDK, storage, custom REST APIs and service connectors to get started with Oracle MCS or just to join the conversation. You are invited to ask questions as you please. Like in a regular cooking show, you can frequently test and taste the chefs work in progress using Chrome Postman. This technical session benefits everyone, including the chefs.

Theme: UX & UI Development

HELI HELSKYAHO

Finland, Miracle Finland Oy, Oracle ACE Director

Top 10 Features of SQL Developer everybody should use.

In this presentation you will hear about the features Heli (dba, developer and database designer) likes in SQL Developer and recommends everybody to get familiar with.

Theme: Database (Platform & Development)

HELI HELSKYAHO

Finland, Miracle Finland Oy, Oracle ACE Director

Managing the changes in database structures in agile project with Oracle SQL Developer Data Modeler.

To be able to be agile with the changes in database structures you need a tool. Oracle SQL Developer Data Modeler is a free to use tool that can be used for designing different kinds of databases, not just Oracle. The tool is integrated to Subversion to enable the versioning of data structures. The tool also supports reverse engineering to offer the

possibility to reverse engineer a database structures to the tool. While the design is in place the tool offers several possibilities for comparing two designs or comparing a design and a database. In this session you will get answers to these questions: How do they work and when to use which? Can I get the ALTER clauses to get my database at the same level with a design? What are the differences on version 3.5 of my database design compared to version 1.7? And many more...

Theme: Database (Platform & Development)

JONATHAN LEWIS

Verenigd Koninkrijk, JL Computer Consultancy, Oracle ACE Director, OakTable Member

Just Don't Do It.

The fastest way of performing a task is to avoid performing it at all - 2nd best is to reduce the number of times you perform the task. In this session I'll examine a small number of recent examples of production code where careful analysis of the requirements showed how to re-engineer to avoid redundant work, allowing significant performance improvements. The example shown will vary in complexity from very simple to subtle and thought-provoking. The session will also include a couple of pointers to the benefit of investigating some of the rarely used features of Oracles SQL.

Theme: Database (Platform & Development)

JONATHAN LEWIS

Verenigd Koninkrijk, JL Computer Consultancy, Oracle ACE Director, OakTable Member

Interpreting and manipulating Parallel Execution Plans.

When you read an execution plan you're probably trying to identify the steps that Oracle went through to acquire the final result set so that you can decide whether or not there is a more efficient way of getting the same result. For a serial execution plan this typically means you have to identify the join order, join methods and access methods together with the point at which each predicate was applied. Generally this isn't too difficult although there are a few cases where the difference between join order and the order of operation can be slightly obscured. Parallel execution plans are harder, though, because you really need to

understand the impact of the order of operation, distribution mechanisms chosen, and (in recent versions of Oracle) the timing of the generation and use of Bloom filters. In this presentation we examine the core concepts of how parallel execution slaves work, and the way in which this can result in a massive difference between the join order of an execution plan and the apparent order of operation of the steps of that plan. We learn about table queues and how they help us follow the order of operation, how the distribution method can make a dramatic difference to performance, and what we can deduce from a plan with multiple data flow operations - following which we learn how to use hints to optimise parallel execution.

Theme: Database (Platform & Development)

STEN VESTERLI

Denemarken, More Than Code, Oracle ACE Director

The Five Ways of Building Oracle Applications (Forms, APEX, ADF, JET, MAF).

This presentation examines all of the most important development tools and technologies available from Oracle today, discussing the strong and weak points of each: Oracle Forms (the classical Oracle development tool, PL/SQL logic, data-driven design), Application Development Framework (declarative development with JDeveloper, Java business logic, user interface driven design), Application Express (declarative development in web browser, PL/SQL business logic, data-driven design), JavaScript Extension Framework (brand-new JavaScript-based framework for building the user interface layer), Mobile Application Framework (specialized ADF-like tool for building mobile applications, generating native iOS and Android applications) The presentation is concluded with an overview and recommendation for how to choose the right tool and application development approach.

Theme: UX & UI Development

EUGENE FEDORENKO

Oekraïne, CS Integra, Senior Analyst

Deep Dive into Oracle ADF Transactions: Advanced Techniques.

This session focuses on transaction management in Oracle Application

Development Framework (Oracle ADF). Understand how the framework works with transactions at the business service layer. Learn how Oracle ADF business components such as entities, view objects, and application modules participate in transaction management. See how Oracle ADF Controller handles transactions, and hear best practices regarding when to use declarative transactions and when to avoid them. See what data control frame is all about. Understand Oracle ADF task flow transaction options and their impact on application module instances and database connections.

Theme: UX & UI Development

TOON KOPPELAARS

Nederland, Oracle, CED Alumnus, OakTable Member

Hash joins and Bloom filters.

In this talk we will explain the cost base optimizer use of Bloom filters. These filters are used to filter early during hash joins. We will explain what type of hash-joins would benefit from early filtering, how Bloom filters work, and how they are used by the CBO in hash joins.

Theme: Database (Platform & Development)

LUIS WEIR

Verenigd Koninkrijk, HCL Technologies, Oracle ACE Director

A Microservice Approach for Legacy Modernisation.

Very large portion of the world's business critical systems are considered to be 'legacy' –and so is the code underpinning them (ie COBOL, PASCAL, C, to name a few). Although in many cases it is the case that these systems are robust, stable and fit for the main purpose they were originally built, they aren't flexible and scalable enough to support emerging requirements mainly derived from a more demanding 'always on the move' and 'always connected' user. These systems struggle to meet these demands mainly because of the 'monolithic' approach on which they were built and the complexity hidden in millions of lines of code that is only understood a very few handful of people that still remain active from the teams that several years ago developed these systems. In almost an equal amount there

have also been thousands of failed attempts to modernise these legacy systems. The 'eating the elephant' in one go approach certainly didn't work, and the traditional SOA approach alone although worked till certain extend, it also fell short when it came down to addressing specific requirements around scalability and platform/service inter-dependencies. In this presentation I will talk about how a legacy modernisation framework based on Microservice Architecture (MSA) in conjunction with some other known SOA patterns (ie. ESB, API Gateway), can be applied to 'eat the elephant one piece at the time' but most importantly 'without getting indigestion'.

Theme: SOA, Integration & API's

FRITS HOOGLAND

Nederland, Accenture Enkitech Group, Oracle ACE Director, OakTable Member

Drill down into the log writer inner working and communication to foreground processes.

This presentation takes you along an investigation into the inner working of the logwriter. Traditionally, the log writer uses the semctl call to notify the foreground process its public log buffer contents are written. However, starting from Oracle 11.2.0.3, an alternative method exists, which is called 'polling'. However, there is no official statement on what 'polling' means, and what it actually polls. This presentation is a hands-on investigation into the foreground polling mechanism, and takes the attendee through the logic steps of the investigation. A second purpose is to show alternative methods for investigating the inner working of the Oracle database.

Theme: Database (Platform & Development)

FRITS HOOGLAND

Nederland, Accenture Enkitech Group, Oracle ACE Director, OakTable Member

Running Oracle on a 32 socket server with 24 terabytes of memory.

Recently, we were asked to test this server for running Oracle 12.1.0.2. This is an intel based server, containing 32 CPU sockets and 24 terabyte of memory. In this case, 32 sockets means 480 CPU cores, and 960 CPU threads. This presentation will briefly go through the intel

history of SMP, NUMA and memory access. It will look into: - Latency for non-Oracle related memory access and Oracle memory access (LIO). - In memory parallel query scaling. - Using parallel query and the Oracle in-memory option.

Theme: Database (Platform & Development)

TORSTEN WINTERBERG

Duitsland, OPITZ CONSULTING Deutschland GmbH, Oracle ACE Director

Oracle IoT Cloud Service - First Practical Experience.

This session will present an in-depth discussion of Oracles new Internet of Things (IoT) Cloud Service from an architectural perspective. We will present a reference architecture that also includes Oracles Integration, Process, Big Data, and Mobile Cloud Services. The session will present highlights and lessons learned from our first implementations with IoT Cloud Service. The core of the story will be a live demo showing the development of a vending machine case. The vending machine is simulated by a Pi, which calls the IoT cloud, routes data to BI cloud and some ERP in the cloud. The way back is initiated by an iBeacon placed on the vending machine, which triggers a mobile app that simulates payment and talks via IoT Cloud directly with the vending machine to complete the purchase.

Theme: SOA, Integration & API's

ANDREJUS BARANOVSKIS

Litouwen, Red Samurai Consulting, Oracle ACE Director

Oracle JET CRUD and ADF BC REST.

If you are ADF developer and want to learn JET - this session is for you. Web developers without ADF background are also welcome. It will be explained how to implement CRUD use case in JET on top of ADF BC REST services. Use case will not be limited to basic CRUD operations. You are going to learn how to reuse ADF BC validations and LOVs in JET. Expect live demos.

Theme: UX & UI Development

HARALD VAN BREEDERODE

Nederland, Oracle, OakTable Member

Demystifying ASM REQUIRED_MIRROR_FREE_MB and USUABLE_FILE_MB.

During the past decade Automatic Storage Management (ASM) has become the filesystem of choice for Oracle databases. With the ever-increasing popularity of Engineered Systems, ASM mirroring has become equally popular. Although administering normal and high redundancy ASM disk groups is considered to be fairly easy, interpreting the REQUIRED_MIRROR_FREE_MB and USEABLE_FILE_MB columns in V\$ASM_DISKGROUP can be a challenge to administrators. The goal of this presentation is to demystify the meaning of these two columns.

- We start off by looking at the three possible ASM disk group redundancy levels and how failures might affect data availability.
- Then we dive into how ASM calculates REQUIRED_MIRROR_FREE_MB and USEABLE_FILE_MB for the different disk group redundancy levels.
- We will look at how the number of failure groups affects the values in the REQUIRED_MIRROR_FREE_MB and USEABLE_FILE_MB columns.
- Subsequently we will learn what aspects to take into account when deciding on the number of failure groups.
- Finally we will interpret negative values of USEABLE_FILE_MB and discuss what to do about them. During the presentation some of the differences between Oracle ASM 11g and Oracle ASM 12c will be discussed as well as how ASM behaves differently when deployed on top of Exadata storage. As always, Harald will bring the theory alive by concluding his presentation with a live demo.

Theme: Database (Platform & Development)

ALEX NUIJTEN

Nederland, allAPEX, Oracle ACE Director

Oracle 12c for Developers

Do you want to get up to speed with the most current release of the Oracle database? Then this session is for you. You will learn the most exciting and most useful new features from the Oracle Database 12c which can make your work as database developer a lot easier. There is more to the Oracle database 12c than just pluggable databases.

Theme: Database (Platform & Development)

TIM HALL

Verenigd Koninkrijk, Oracle ACE Director, OakTable Member

Its raining data! Oracle databases in the cloud.

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.

Theme: Database (Platform & Development)

ROBERT VAN MÖLKEN

Nederland, AMIS, Oracle ACE Associate

Simplifying Integration between Cloud and On-premises applications.

With the fast growth of Cloud applications and the use of these application the importance of integrating with each other is increasingly growing. With the release of the Integration Cloud Service (ICS) and the SOA Cloud Service (SOA CS) we can now simplify integration between Cloud and on-premise applications. In this session we deep-dive into the features of ICS, SOA CS & APIM CS and how to integrate existing cloud applications with on-premises applications to create a hybrid cloud solution. The session shows you, the audience, that we can move certain on-premises integrations to the cloud without the loss of control and security, and that it is not only a cloud service for cloud application integration.

Theme: SOA, Integration & API's

LUCAS JELLEMA

Nederland, AMIS, Oracle ACE Director

Systems on the edge - your stepping stones into Oracle Public PaaS Cloud.

Adoption of the cloud will not start with the core enterprise applications. There are several ways to start the adoption. One is to move in from training environments through development and test to production. Another takes the importance of applications into consideration, starting with secondary, supporting systems. The approach discussed in this session is to start with edge systems that are already in the DMZ, on the fringes of an enterprises, where they engage in interaction with the outside world.

Theme: Business & IT Agility, Continuous Delivery, DevOps

BRYN LLEWELLYN

Verenigde Staten, Oracle USA, OakTable Member

Why Use PL/SQL.

Large software systems must be built from modules. A module hides its implementation behind an interface that exposes its functionality. This is computer science's most famous principle. For applications that use an Oracle Database, the database is the persistence module. The tables and the SQL statements that manipulate them are the implementation details. The interface is expressed with PL/SQL. Developers and users of applications built this way are happy with their correctness, maintainability, security, and performance. But when developers follow the NoPisql paradigm, their applications have problems in each of these areas and users suffer. This session provides PL/SQL devotees with unassailable arguments to defend their beliefs against attacks from skeptics. Skeptics who attend will see the light.

Theme: Database (Platform & Development)

DUNCAN MILLS

Verenigd Koninkrijk, Oracle, Senior Director Oracle

Standing at a Crossroads, ADF and JET.

Are you confused about what development platform you should be choosing now that Oracle has both modern javascript and traditional Java EE based toolkits available? Well frankly you wont be alone. So this seems to be a great time to have the discussion about the suitability of the different approaches to various use cases and the joys (or otherwise) of mixing these technology streams. Audience contribution and participation will be encouraged!

Theme: UX & UI Development

Er is continu een update van het programma te vinden op amis-conference.com

