

## Agenda SOUG Day 5. September 2023@ZHAW Winterthur

Stream 1 - Hörsaal - MG E0.088		Moderation Dr. Andrea Kennel			
09:00	09:15	Begrüssung durch Billy Kneubühl, Oracle Vice President Technology Cloud Sales ALPS & Country Leader			
09:15	10:00	Key Note «Oracle Database Directions»	Join Ludovico from Oracle Database Product Management to learn about the latest capabilities for managing structured, semi-structured and unstructured data in the cloud, on-premises, and in multi-cloud and hybrid-cloud configurations. Ludovico will showcase recent innovations for data management delivered by the Oracle Database development team and share insights into what's coming next for Oracle Database and customers using it, unveiling unmatched capabilities that will help enterprises meet and exceed the needs of their business drivers.	Ludovico Caldara	Oracle
10:00	10:10	Pause			
10:10	10:55	Programmieren mit utPLSQL – Das ist der Weg	<p>Heutzutage dreht sich alles um Automatisierung. Das Testen von Software ist keine Ausnahme. utPLSQL macht es einfach, Tests zu programmieren und sie in jede bestehende CI/CD-Umgebung zu integrieren, sei es On-Premises oder in der Cloud.</p> <p>Nach einer Einführung schauen wir anhand einer fiktiven User-Story die Erstellung und Ausführung von automatisierten Tests mit dem Oracle SQL Developer an, und zwar unabhängig von einer CI/CD-Umgebung. Dies bedeutet, dass wir Tests ausführen können, bevor die Änderungen des Datenbank-Codes in einem Version-Control-System sichtbar sind.</p>	Philipp Salvisberg	Trivadis
10:55	11:15	<b>grosse Pause</b>			
11:15	12:00	Ansichtssache - Mit neuen Oracle View-Arten Daten für viele Zwecke erschliessen	Das Oracle RDBMS enthält viele verschiedene Engines und Analysemethoden. Mit 23c werden können diese mit Hilfe bestehender und zweier neuer View-Typen für genutzt werden, um Daten auf vielfältige Weise zu analysieren. Das Konzept ist revolutionär, da es keine Datenkopien für verschiedene Workloads erfordert und dabei gleichzeitig Datensicherheit, Entwicklungseffizienz, Model-Driven-Consistency und andere Enterprise-Feature der Datenbank bietet. In dieser Präsentation werden die vier View-Arten vorgestellt und auf einem einzigen relationalen Modell angewendet, um relationale, dimensionale, objektorientierte und Graphen-Workloads zu implementieren. Eine Live-Demo mit den vier verschiedenen Workloads wird die Möglichkeiten und aktuellen Grenzen dem Publikum aufzeigen.	Dr. Holger Friedrich	sumIT
12:00	13:00	Lunch			
13:00	13:45	APEX 23.1 and beyond: Neues aus dem APEX Entwicklerlabor	Seit Mai 2023 ist APEX 23.1 verfügbar - und neue Features wie Template Components, Push Notifications oder Background Page Processing sind verfügbar. Der Vortrag stellt diese und andere Features vor, stellt einen Zusammenhang mit früheren Releases her und gibt einen Ausblick auf künftige Versionen.	Carsten Czarski	Oracle
13:45	13:55	Pause			
13:55	14:40	Let's trace it! A peek into the inner workings of Oracle with bpftrace	<p>Troubleshooting and analyzing complex problem scenarios requires the use of appropriate tools. While modern BPF based tracing tools have gained a lot of traction in many areas, they haven't been widely adopted by Oracle DBAs yet.</p> <p>This presentation aims to fill that gap by demonstrating how to leverage bpftrace to peek into the inner mechanics of Oracle.</p> <p>Using dynamic instrumentation, we will look at how to probe Oracle kernel functions and study introspection techniques to directly read data from the Oracle SGA to examine and observe the behavior of session level activity, wait events and latches.</p>	Christoph Lutz	Swisscom
14:40	15:00	<b>grosse Pause</b>			

15:00	15:45	Exploring the Power of Oracle Database 21c Sharding: A Comprehensive Journey	<p>Oracle Database 21c introduces an advanced sharding feature that revolutionizes data management and scalability in distributed environments. This abstract presents an immersive exploration of Oracle Database 21c Sharding, showcasing its capabilities and practical applications.</p> <p>In this presentation, we will begin with an overview of sharding and its significance in modern database architectures. We will delve into the fundamental concepts and benefits of Oracle Database 21c Sharding, including improved performance, high availability, and simplified administration. The abstract will highlight the key architectural components and the underlying mechanisms that empower Oracle Database 21c Sharding to scale horizontally across multiple Oracle Cloud Infrastructure (OCI) regions.</p> <p>To provide a hands-on experience, the presentation will include a live demo where we will showcase the creation of a sharded database across three distinct OCI regions using Docker Containers. This demonstration will highlight the simplicity and flexibility of deploying a sharded environment, enabling seamless data distribution and accessibility.</p> <p>Furthermore, the abstract will explore sharding in the context of both relational and JSON document-based data. Attendees will witness how Oracle Database 21c Sharding seamlessly handles complex data models, offering unmatched performance and scalability. We will showcase real-world use cases and demonstrate the efficient querying and manipulation of sharded data using a Python application.</p> <p>In addition to relational data, the presentation will cover the migration of MongoDB collection data into a sharded Oracle Database. Attendees will gain insights into the migration process, best practices, and strategies for leveraging the power of Oracle Database 21c Sharding to unify and scale their data ecosystem.</p>	Lazar Nakjinov	AIG
15:45	15:55	Pause			
15:55	16:40	Boost your developer workflow	<p>In this session I will try to take your developer workflow to the next level. In my years of experience in developing APEX applications, I often ask myself if I can find a way to improve my own developer workflow. In this session I'll share my findings with you.</p> <p>We will start by looking at the APEX spotlight and how this can speed up your navigation through APEX. Looking into different improvements for editing your static files, where one of them shows you how you can integrate Visual Studio Code as an IDE into your workflow.</p> <p>Furthermore, I'll give you tips and tricks, which I found useful and use myself day by day. These tips will be about APEX Builder itself, the DevTools in Chrome/EDGE and Visual Studio Code for working with JavaScript and/or CSS files.</p>	Giliam Breems	Qualogy
16:40	18:00	Apéro und Austausch			