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Review of Everything Autonomous at CloudWorld

by Oracle Management and Development

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Get ready for CloudWorld 2025

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KEYNOTES FOCUSED ON AUTONOMOUS DATABASE

Larry Ellison
Oracle Chairman of the Board
and CTO

Oracle Vision and Strategy

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Juan Loaiza
Executive Vice President, Mission-Critical Database Technologies, Oracle

Generative Data Dev and App Dev

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SESSIONS FOCUSED ON AUTONOMOUS DATABASE

Massimo Castelli
Senior Director, Product Strategy, Oracle

Larry Fumagalli
Senior Director, Data Strategy and Architecture, Oracle

Data Strategy - One Year After

In the past 12-months we have seen extraordinary advances in AI-powered business outcomes. Simultaneously, the subject of data strategy has become a focus for organizations that understand the effectiveness of AI implementation hinges largely on the quality, accuracy, and relevance of the data it processes.

We illustrate a data strategy–driven approach to defining, aligning, and balancing the fundamental people, process, and technology elements of successful AI adoption that help both de-risk and accelerate the delivery of successful business outcomes.

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Marty Gubar
Director, Product Management,
Oracle

Domenick Ficarella
Senior Director, Solution Architecture,
Oracle

Top Integrations: Oracle Autonomous Database on Oracle Database@Azure

Learn how Oracle and Microsoft Azure customers can realize value from our unique multicloud partnership.

This demonstration-rich session highlights how services such as Azure Data Factory, Synapase Pipelines, Fabric, and others are integrated with Oracle Autonomous Database on Oracle Database@Azure and accelerate innovation for developers, IT, and business teams.

Download Presentation

Robert Greene
Vice President of Product Management, Oracle

Getting Cloud Service benefits for On-Premises databases

Many organizations are seeking the benefits of Cloud (managed services, pay-per-use, API automation), but have governance and/ or technical obstacles to moving to a public cloud provider.

This session will outline how to bring the benefits of Oracle Cloud database services to your data centers, it will review the service options on how to ‘upgrade’ on-premises database to the cloud model and will include a customer retrospective (large Telecom provider) on their experiences having used these services with Oracle’s Autonomous Database to both migrate existing and build new mission critical production applications gaining the benefits of cloud within their own data centers.

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Nigel Bayliss
Senior Principal Product Manager,
Oracle

Real-Time SQL Plan Management and More Optimizer Wonders in Oracle Database 23ai

Get up to speed with the latest developments in the Oracle Optimizer. If you're interested in SQL performance and how the database works at its core, come learn about new query transformations and techniques, improved execution plan diagnostics for SQL developers, and exciting news about how the database can repair SQL performance regressions in real time.

Plus, check out a demonstration of the key new features in action.

Download Presentation

Simon Griffiths
Vice President, Cloud Solutions Architecture, Oracle

Database Cloud Migration Best Practice to Autonomous Database

Join this session to learn how to plan your database estate migration to maximize the benefits that cloud can offer. We will cover how to mitigate the cost of change, how to maximize your Total Cost of Ownership savings and how to leverage Autonomous Elastic pools for maximum consolidation value on Oracle Autonomous Database

Download Presentation

Reiner Zimmermann
Vice President,
Global Leaders Program
Oracle

Autonomous Database Best Practices and Lessons Learned Customer Panel

Listen as four customers share their experiences, best practices, and lessons learned during implementations of projects using Oracle Autonomous Database. Customers involved are using Oracle Autonomous Data Warehouse, Oracle Autonomous Transaction Processing, and Oracle Autonomous JSON Database, and some are using the Oracle Microsoft interconnect or have implemented SaaS solutions on top of that technology.

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Daniel Dibbets
VP – Data Platform Transformation, Oracle

How a Financial Institution Moved Mission-Critical Systems to Autonomous

This Financial Institution is a key adopter of Oracle Autonomous Database Serverless, and has great plans to move further systems to Oracle Autonomous Database. Learn more about how they accomplished its adoption and migration

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SESSIONS FOCUSED ON MACHINE LEARNING AND AI

Mark Hornick
Senior Director, Product Management, Data Science/Machine Learning, Oracle

Choosing the Right AI Capabilities in Database 23ai for Your Use Case

Oracle Database 23ai provides a broad range of AI capabilities for multiple use cases. Learn about Oracle AI Vector Search, a new capability in Oracle Database 23ai that enables searching data by its semantics or meaning—making it easier to build generative AI applications for business data.

We also showcase Oracle Machine Learning, a large suite of algorithms that is ideal for algorithmic AI applications. Although AI is extremely powerful, Oracle Database also has a vast range of analytic capabilities, that are sometimes more appropriate for many use cases. Get a more practical understanding of these technologies and find out how to choose the right capabilities for specific real-world use cases.

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Marcos Arancibia
Senior Principal Product Manager,
Oracle

Mark Hornick
Senior Director, Product Management,
Data Science/Machine Learning,
Oracle

Bring Your Own Model to Your Database for AI and ML

You want fast performance, simple architecture, and ease of use for AI models with your database data. Let's throw scalability in for good measure! Whether you're interested in vector similarity search, classification, and prediction, or other use cases, with Oracle Database 23ai, you can import pre-built embedding models from repositories like Hugging Face or your own models from TensorFlow, PyTorch, and other popular frameworks. Use models with Oracle AI Vector Search and in-database Oracle Machine Learning.

Join us to see this in action with Newcastle United Women's Football and how easy it is to take advantage of this powerful new capability.

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Marty Gubar
Director, Product Management,
Oracle

How to Query Your Data Using Natural Language and AI

Thanks to AI and Oracle Autonomous Database integration with large language models (LLMs), you can now use natural language to query your data from any app. Stop by to learn how to become the data superhero in your organization.

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Marty Gubar
Director, Product Management,
Oracle

Build Natural Language-Powered Apps That Can Transform Your Business

Discover how AI can transform your organization—from leveraging natural language for business insights to creating personalized promotions and summarizing content, and much more. Oracle Autonomous Database Select AI simplifies building apps that apply large language models to your data.

Explore SQL advancements that enable answering of questions using natural language and learn to develop RESTful AI services that can generate innovative, personalized content based on your Autonomous Database data.

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Alexandra Czarlinska
Director, Development, Oracle Text Search, Oracle

AI Vector Search: A RAGs to Riches Story

Large language models (LLMs) are central to generative AI applications; however, they are not trained on enterprise data, which can lead to “hallucinations” when addressing business-specific questions.

Retrieval-augmented generation (RAG) can solve this problem by combining LLMs (like ChatGPT) with AI Vector Search on private business data. RAG allows AI Vector Search to provide LLMs with relevant, real-time business data, to generate accurate responses without training the LLM on that data.

RAG with Oracle Database also benefits from advanced security (so only user-visible data is used for augmentation), sophisticated SQL to enforce business rules, plus a full-featured text pipeline for document processing.

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SESSIONS FOCUSED ON SPATIAL AND GRAPH

Melliyal Annamalai
Distinguished Product Manager,
Oracle

Graphs, Graph-RAG, and Generative AI: An Introduction

Knowledge graphs store complex information by capturing relationships between entities. Data represented by such a graph provides additional information about data, derived from how data is connected to other entities. As a result, instead of viewing data entities as standalone, you can view data as a set of connected entities.

The nature of how data is connected enables new and additional insights about data. Capturing this information enables richer context to be provided to generative AI. See how retrieval-augmented generation (RAG) can be enhanced with graph-RAG.

Learn about graphs, graph-RAG, and the power of combining them with generative AI. We demonstrate how easy this is using Graph and Vector technology in Oracle Database 23ai.

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Melliyal Annamalai
Distinguished Product Manager,
Oracle

Jayant Sharma
Senior Director, Product Management,
Oracle

Is A Connected to B? Database 23ai SQL Syntax Makes It Easy to Find Out!

Oracle Database 23ai includes new SQL syntax from the SQL:2023 standard to work with graphs—helping you easily create a graph view of data and use simple queries to check connectedness between data entities and making it easy to navigate implicit and explicit relationships in your data.

Discover how identifying connections in data helps uncover new relationships that can enhance machine learning models and enhance retrieval-augmented generation (RAG) for generative AI.

Learn more about this new syntax and look at code samples to create graphs from tables, query graphs, use graphs with JSON functions, and more—all using one language: SQL.

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David Lapp
Senior Principal Product Manager,
Oracle

When Where Is What Matters: New Spatial Features in Database 23ai

Oracle Database 23ai includes a host of new spatial functionality geared toward developers. Learn about these new features, including change detection in LiDAR data (commonly used in autonomous vehicles), packaging large geospatial datasets for performant interactive visualization (aka spatial vector tiles), and efficient hierarchical aggregation of spatial data for machine learning workflows (aka support for H3).

Discover use cases for these new features and see how to leverage them in your applications. Plus, learn when and how to use these with Oracle APEX, Oracle REST Data Services, or in your Java or Python-based applications.

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SESSIONS FOCUSED ON APP DEV

Beda Hammerschmidt
Vice President Software Development,
Oracle

Effective Data Modeling with 23ai JSON Duality Views and JSON Collections

JSON has become popular as a data model for new applications, and developers and DBAs struggle to grasp the implications on databases and data modeling. For example, JSON-based applications often do not scale as intended, are hard to extend, or do not keep data consistent.

We describe the fundamentals of the JSON data model and its differences from the relational model so adopting JSON becomes easier. We also demonstrate what Oracle Database offers to combine precise data modeling with the simplicity of JSON.

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Beda Hammerschmidt
Vice President Software Development,
Oracle

Julien Dontcheff
Distinguished Product Manager,
Oracle

JSON in the Database: Relational Duality Views, the MongoDB API and More

JSON has become popular as a data model for new applications, and developers and DBAs struggle to grasp the implications on databases and data modeling. For example, JSON-based applications often do not scale as intended, are hard to extend, or do not keep data consistent. We describe the fundamentals of the JSON data model and its differences from the relational model so adopting JSON becomes easier.

We also demonstrate what Oracle Database offers to combine precise data modeling with the simplicity of JSON.

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Julien Dontcheff
Distinguished Product Manager,
Oracle

What's New in PL/SQL in Oracle Database 23ai

Explore the latest advancements and features introduced in PL/SQL, including native JSON support in PL/SQL, which provides developers with streamlined methods for handling JSON data within the familiar PL/SQL programming paradigm. Learn about new functions, operators, and best practices for manipulating JSON structures.

Also learn about the JSON-To-Duality Migrator, a new PL/SQL-based tool in Oracle Database 23.4 that can migrate one or more existing sets of JSON documents to JSON-relational duality views—or the whole MongoDB database to Oracle Database 23ai. Also, discover new features of PL/SQL in Oracle Database 23ai.

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Beda Hammerschmidt
Vice President Software Development,
Oracle

JSON Relational Duality: Under the Hood

JSON Relational Duality is a breakthrough capability that brings the best of JSON and relational to your apps and infrastructure. With Duality, the same data can be accessed both as JSON documents and as relational tables, depending on your use case.

Duality therefore eliminates the need for complex object-relational mapping (ORM) frameworks and for document database silos in your IT landscape.

Come see the inner workings of Duality as well as how to migrate from document storage to duality views, and drastically simplify your overall architecture.

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SESSIONS FOCUSED ON DATA STUDIO

Alexey Filanovskiy
Senior Principal Product Manager,
Oracle

Jayant Mahto
Senior Principal Product Manager,
Oracle

The Autonomous Data Engineer: The Superhero Enabling Generative AI

AI has revolutionized the way we analyze data. However, the truth is that AI is only as good as the data it operates on. Examine the role of the Oracle Autonomous Database data engineer in providing trusted data sets coming from a wide range of sources, including data lakes and databases across multiple clouds.

Learn how to use Data Studio - an easy-to-use embedded set of tools included with Autonomous Database - to integrate, transform, and share data.

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Alexey Filanovskiy
Senior Principal Product Manager,
Oracle

Jayant Mahto
Senior Principal Product Manager,
Oracle

Create a Data Pipeline with Data Transforms in Autonomous Database Data Studio

Oracle Autonomous Database includes Data Studio - a suite of built-in tools to optimize your business.

Discover how you can simplify data integration and analytics using Data Studio's Data Transforms tool to load and transform data for analytics, machine learning, AI, and other workloads, capitalizing on data assets from multiple clouds and on-premises systems.

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WORKSHOPS FOCUSED ON AUTONOMOUS DATABASE

You can run the following workshops on our free-to-use LiveLabs workshop platform

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Oracle LiveLabs gives you access to Oracle's tools and technologies to run a wide variety of labs and workshops.

Developer

Data Engineer

Data Scientist/AI

DevOps

Low Code Developer

Robert Greene
Vice President of Product Management, Oracle

Simplify Data Management Using Autonomous Database on Oracle Database@Azure

Oracle Autonomous Database (ADB) has arrived in Microsoft Azure. ADB is an AI-enabled Oracle Database that delivers a fully managed data management platform. Get a practical introduction to the service as Azure users see how to achieve performance, scale, and operational simplicity from the most powerful database service available in the cloud.

We cover the practical aspects of creating Autonomous Database resources and connecting to them from other Azure services, but also cover advanced service features, including natural language processing, low-code development, analytic and data lake capabilities usage, and more features that are part of the managed service.

Download Workshop Instructions

Simon Law
Product Manager, Autonomous Database, Oracle

Experience the New Way of Managing Your Oracle Databases

Oracle Autonomous Database has changed how you manage your databases. There has been significant investment in making it fit well into your DevOps workflows and speed development, so there's no more manually deploying, patching, backing up, and spinning up dev environments.

Discover innovative tools, methodologies, and best practices revolutionizing database administration—optimizing efficiency, security, and scalability.

From automation to cloud integration, get practical insights and real-world examples. Experience the future of the Oracle DBA profession and start the journey toward enhanced database administration, including using DevOps APIs, Terraform, management by exception, observability, high availability, and disaster recovery.

Download Workshop Instructions

Marcos Arancibia
Senior Principal Product Manager,
Oracle

Mark Hornick
Senior Director, Product Management,
Data Science/Machine Learning,
Oracle

How to Implement Machine Learning Projects with Your Data and AutoML

Learn how Oracle helps you drive better insights and decision-making in your organization by simplifying advanced analytics using built-in AI and machine learning (ML) capabilities in Oracle Autonomous Database.

We illustrate how Autonomous Database and its integrated self-service tools will play a key role in building innovative data solutions. Learn how to optimize the process of loading and transforming your data as well as how to use built-in ML capabilities with AutoML to automate repetitive, time-consuming tasks. F

inally, find out how to predict at-risk customers and deliver promotions to keep them from leaving.

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Marty Gubar
Director, Product Management,
Oracle

Mark Hornick
Senior Director, Product Management,
Data Science/Machine Learning,
Oracle

Build Natural Language-Powered Apps That Can Transform Your Business

Discover how AI can transform your organization—from helping you leverage natural language for business insights to helping you create personalized promotions and summarize content, and much more. Oracle Autonomous Database Select AI simplifies building apps that apply large language models (LLMs) to your data.

Explore SQL advancements that enable answering of questions using natural language and learn to develop RESTful AI services that generate innovative, personalized content based on your Oracle Autonomous Database data. For the best experience, we highly recommend bringing a laptop with Python 3.9 or higher already installed.

Download Workshop Instructions

David Lapp
Senior Principal Product Manager,
Oracle

Make Better Predictions with Spatial ML Algorithms on Autonomous Database

A collection of spatial algorithms is now available with Oracle Machine Learning for Python (OML4Py), enabling you to incorporate the effects of location in your machine learning (ML) projects. Work with spatial data in Oracle Autonomous Database and train models based on spatial algorithms for prediction of electric vehicle adoption, incorporating the effects of location.

Get a chance to work with several spatial features of OML4Py, including spatial data prep, exploratory spatial analysis and SQL operations, spatial algorithms for predictions, and rendering maps and spatial data in Oracle Machine Learning notebooks.

Download Workshop Instructions

Melliyal Annamalai
Distinguished Product Manager,
Oracle

Jayant Sharma
Senior Director, Product Management,
Oracle

Use of Graph ML, Vector Search, RAG, and LLMs for Information Retrieval

This is the era of generative AI. Retrieval-augmented generation (RAG) enables enterprises to use their business data with large language models (LLMs) and thus participate in the generative AI wave. In addition, graph data models are becoming more and more employed across different industry verticals, as they easily capture relationships in the data that most data models fail to capture.

See how we can employ the power of graph connections together with the latest RAG techniques to benefit from the full power of generative AI in various use cases including information retrieval. Learn how all these can be done inside the database using the latest Oracle Database 23ai features: SQL property graphs and AI Vector Search.

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