

**ORACLE**

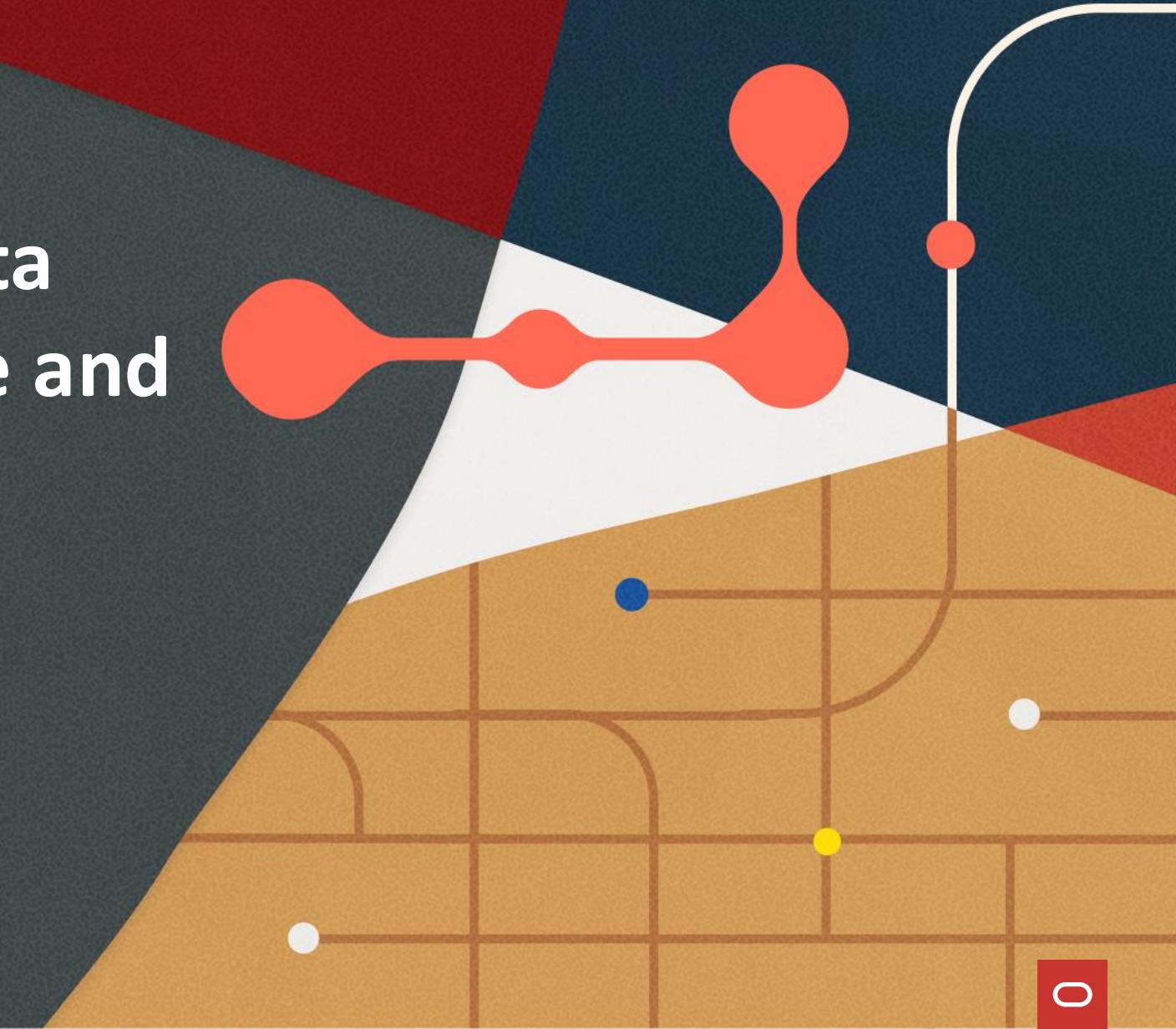
Data Deep Dive  
at AI World

# How to query your data using natural language and AI

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SHO2803

October 16, 2025



# The team



**Mark Hornick**  
Sr Director of Product Mgt  
Oracle Machine Learning



**Michelle Malcher**  
Director, Product Mgt  
Autonomous Database



**Marcos Arancibia**  
Sr Principal Product Manager  
Autonomous Database

# Innovate with AI



## Select AI: Accelerate application development

Natural  
Language  
to SQL

AI SQL  
Functions

Retrieval  
Augmented  
Generation

Synthetic  
Data  
Generation

APEX AI  
Assistant

## AI Assistants for Data Management

AI Assist  
for  
Transformations

AI Assist  
for  
Data Loading

AI Assist  
for  
Table Definitions

## Multicloud-Native: Leverage AI services in every cloud



# AI-enhanced data loading

Automatically derive insights

- **PII Detection**

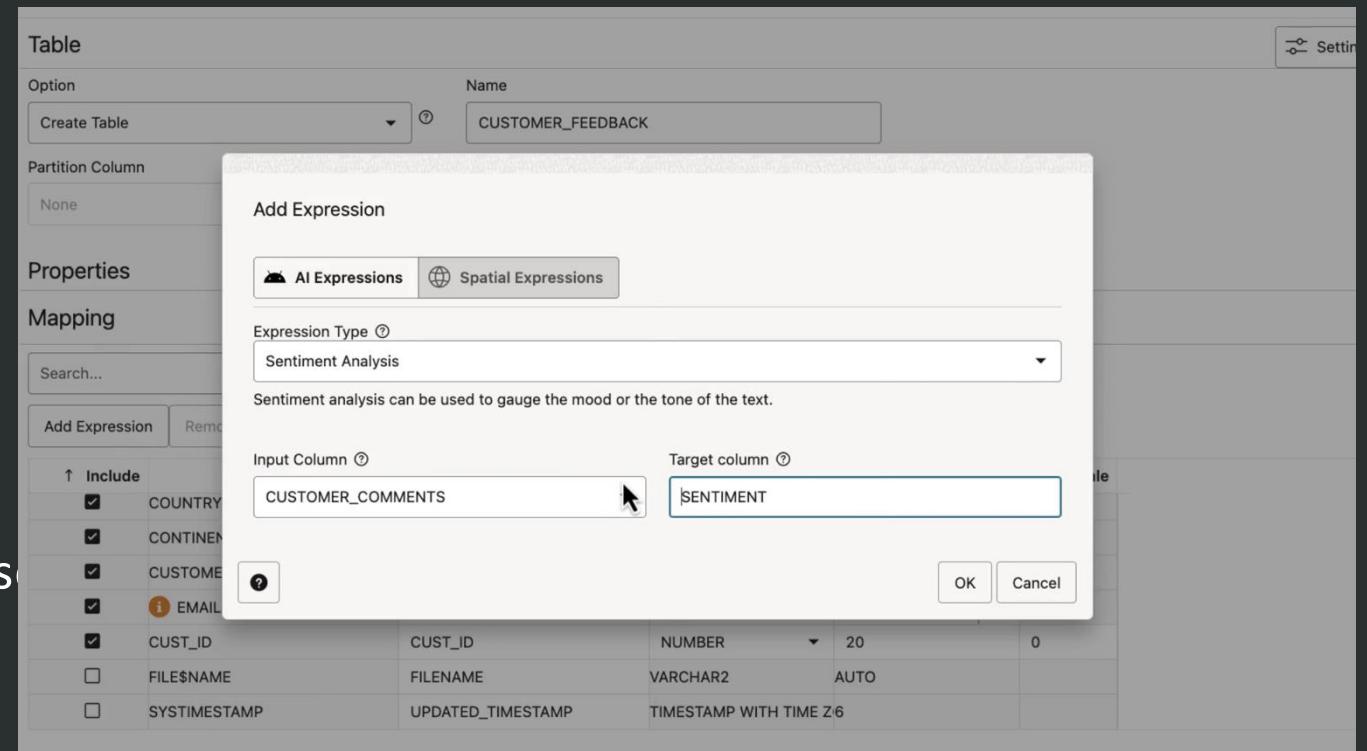
Secures sensitive information

- **Sentiment Analysis**

Analyzes customer emotions

- **Key Phrase Extraction**

Identifies most important words and phrases



## Select AI example use cases

**SQL Query**

Ask natural language questions about your database data

Assist database developers in writing SQL queries against their application data

**Chatbot**

Generate content with simple or complex custom prompts easily from your database, e.g., email generation, sentiment analysis

Return structured query results in text to present to users

**RAG**

Ask questions and get more relevant and accurate responses by using content from your trusted, private documents

**SDG**

Create “realistic” data in database tables to support testing/debugging applications and interfaces and more

# What can you do with Select AI?

- Generate SQL as a developer assistant
- Build apps to interact with data using natural language
  - customer email generation
  - recommendations
  - sentiment analysis
  - document summarization
- Generate RAG-enhanced results
- Generate synthetic data
- Build custom AI agents

# Use AI models that are right for your use case

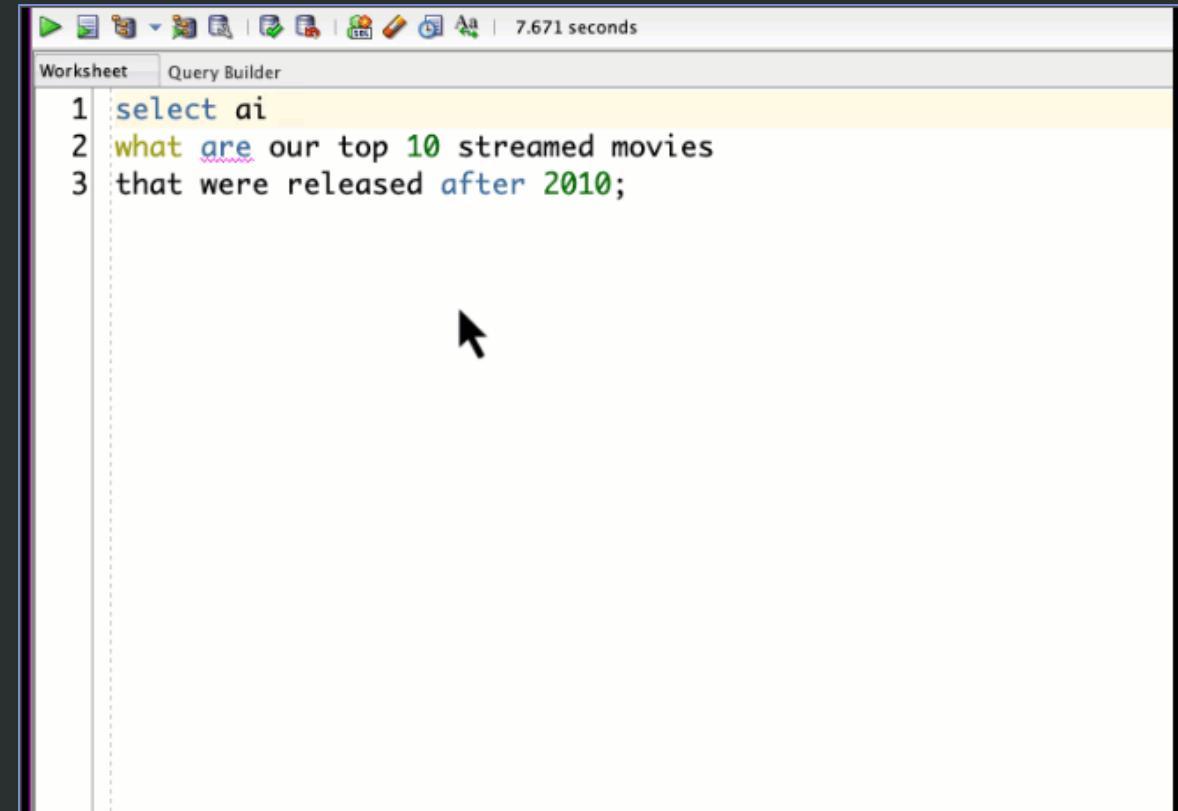
Easily access LLMs from a broad range of providers

- |  |   |
|--|---|
|  <ul style="list-style-type: none"><li>• OCI Generative AI</li></ul>    |  <ul style="list-style-type: none"><li>• Anthropic</li></ul>                       |
|  <ul style="list-style-type: none"><li>• OpenAI</li></ul>               |  <ul style="list-style-type: none"><li>• Hugging Face</li></ul>                    |
|  <ul style="list-style-type: none"><li>• Azure OpenAI Service</li></ul> |  <ul style="list-style-type: none"><li>• Amazon Bedrock</li></ul>                  |
|  <ul style="list-style-type: none"><li>• Cohere</li></ul>               |  <ul style="list-style-type: none"><li>• OpenAI-compatible providers</li></ul>     |
|  <ul style="list-style-type: none"><li>• Google</li></ul>              |  <ul style="list-style-type: none"><li>• Private endpoint hosted on OCI</li></ul> |

# Use natural language to query data

## Actions

- **runsql** - (default) return SQL result set for NL2SQL  
return vector result set for RAG
- **showsqli** – return the generated query
- **explainsqli** – explain generated SQL query
- **narrate** – return a conversational result for  
NL2SQL/RAG
- **chat** – return LLM response to prompt –  
a general AI chat



The screenshot shows a database worksheet interface with a toolbar at the top and two tabs: "Worksheet" and "Query Builder". The "Worksheet" tab is active. The interface displays a natural language query and its corresponding generated SQL code. The natural language query is:

```
1 select ai
2 what are our top 10 streamed movies
3 that were released after 2010;
```

A cursor arrow is visible on the right side of the worksheet area.



No questions have been asked!

Ask a question

Ask your database [?](#)

# Select AI can answer questions about data in any data store using

Autonomous AI Database's Distributed Data Capabilities

**SELECT AI** "What were the top 10 products by sales per region?"



**Business User**

1) Ask Question

**Select AI**  
"Sidecar"



2) Gather Data



3) Send user's question plus data to LLM of choice

## Object Storage



Google Cloud

## On-prem Databases



ORACLE  
Database



Microsoft®  
SQL Server®

servicenow



snowflake



databricks



# Unlock all your data with Autonomous Database "Sidecar" and Select AI

What's hot on our movie streaming service?

Movie Title	Total Views
Avengers: Endgame	81074
Captain Marvel	33587
The Lion King	33064
Star Wars Episode IX: The Rise of Skywalker	31331
Aladdin	29779
Spider-Man: Far from Home	29021
Aquaman	20357
Avengers: Infinity War	18813
Toy Story 4	17426
Bohemian Rhapsody	16936

More rows available

Explore Explain

Ask a question

Ask your database (?)



# Retrieval Augmented Generation (RAG)

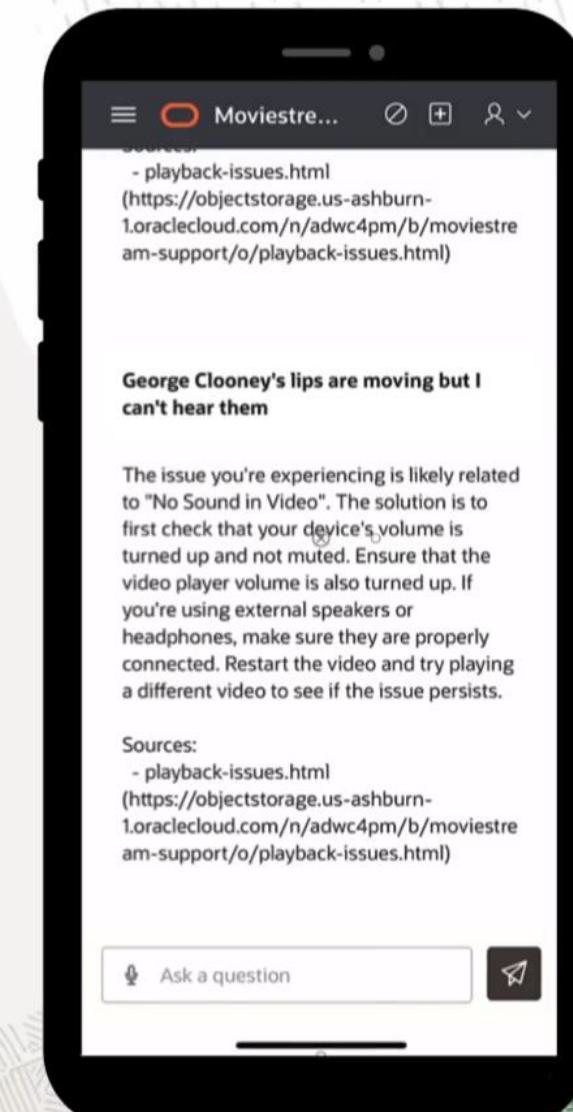
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## Oracle Autonomous Database

### Building apps with Select AI

# Simplify developing RAG applications



# Retrieval Augmented Generation (RAG)

Combine the strengths of retrieval-based AI and generative AI

## Benefits

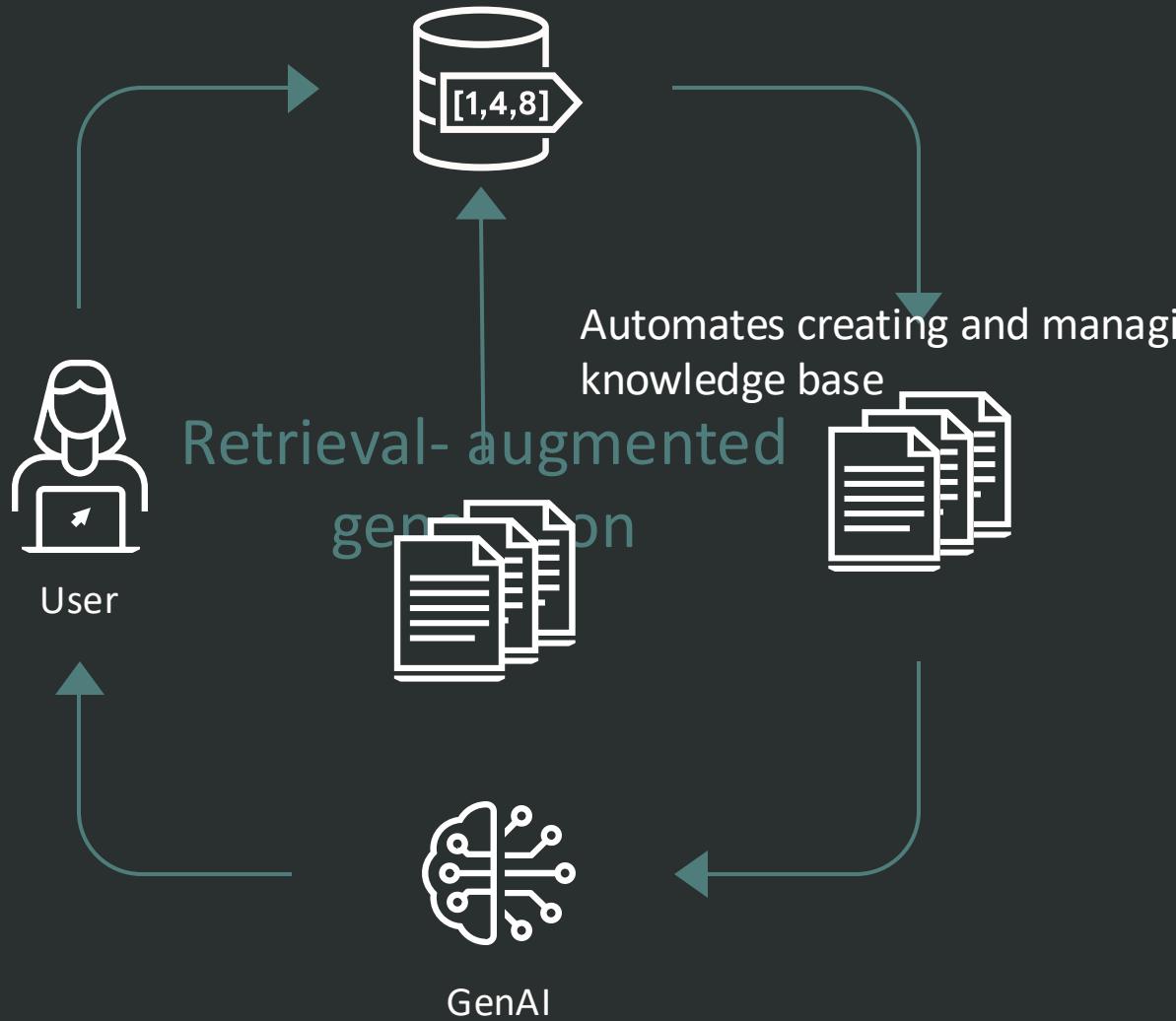
- Increased accuracy – reduced hallucinations
- Specificity – more relevant responses
- Efficiency – faster/easier than LLM fine-tuning
- Transparency – cite sources to verify information
- Adaptability – dynamically update information
- Security – no fine-tuning LLM with private data

**Retrieval** – find information most relevant to a user's prompt, typically from a private knowledgebase or vector database

**Augmented** – use this information to “augment” or enhance the user’s prompt before sending it to the LLM

**Generation** – the LLM generates a response informed by the retrieved data for more accurate, relevant, and context-aware answers

# Easily build AI pipelines and get responses from knowledge bases



Simplifies response generation using SQL AI extension

```
SQL> SELECT AI NARRATE my roku is stuck on the opening scene of my movie ;
```

**Your feedback is important.**

**Scan this QR Code or use the  
Mobile App to share your  
thoughts on this session.**



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