

ORACLE  
Data Deep Dive  
at AI World

# How to query your data using natural language and AI

---

SHO2803

October 16, 2025

# The team



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

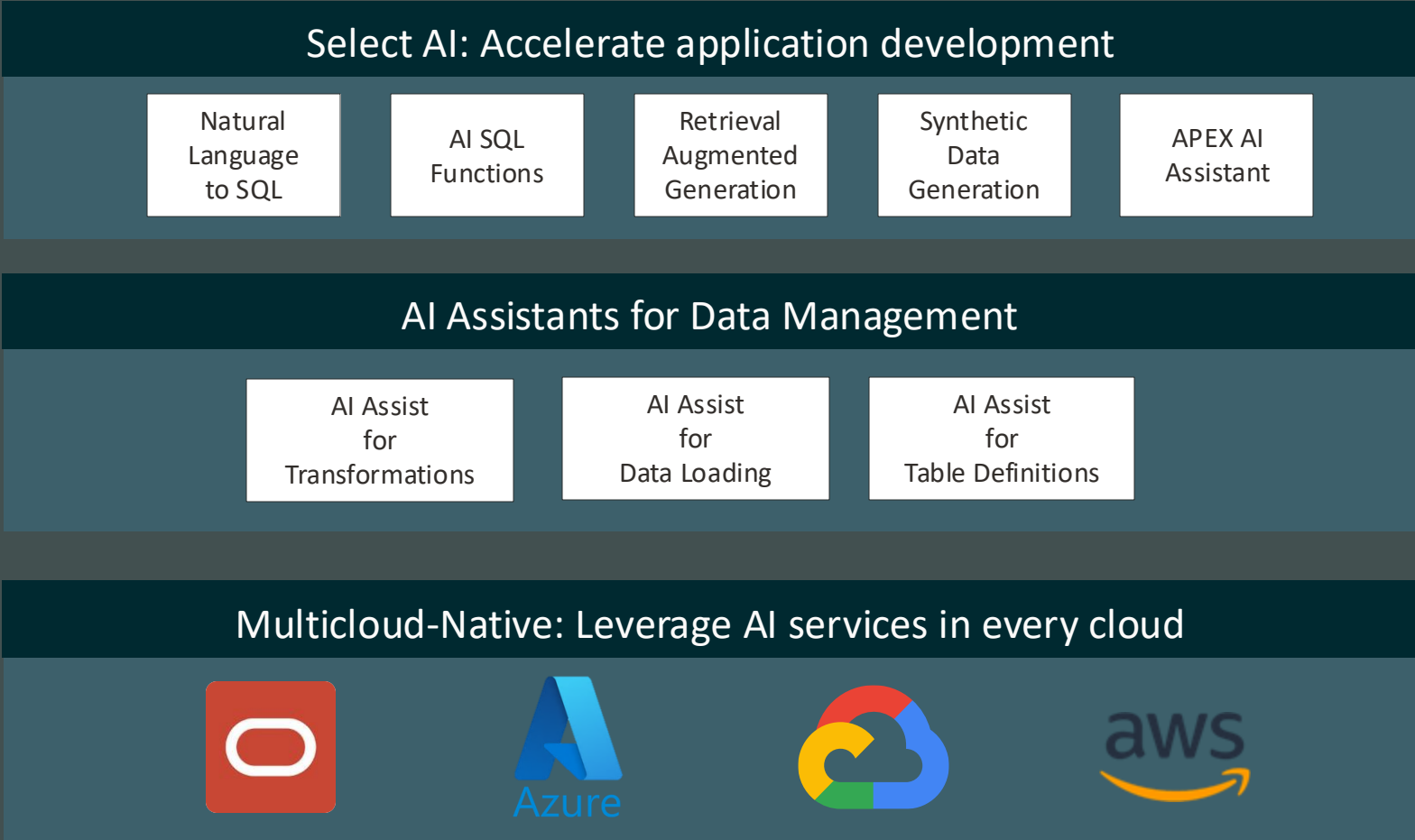


**Michelle Malcher**  
Director, Product Mgt  
Autonomous Database



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

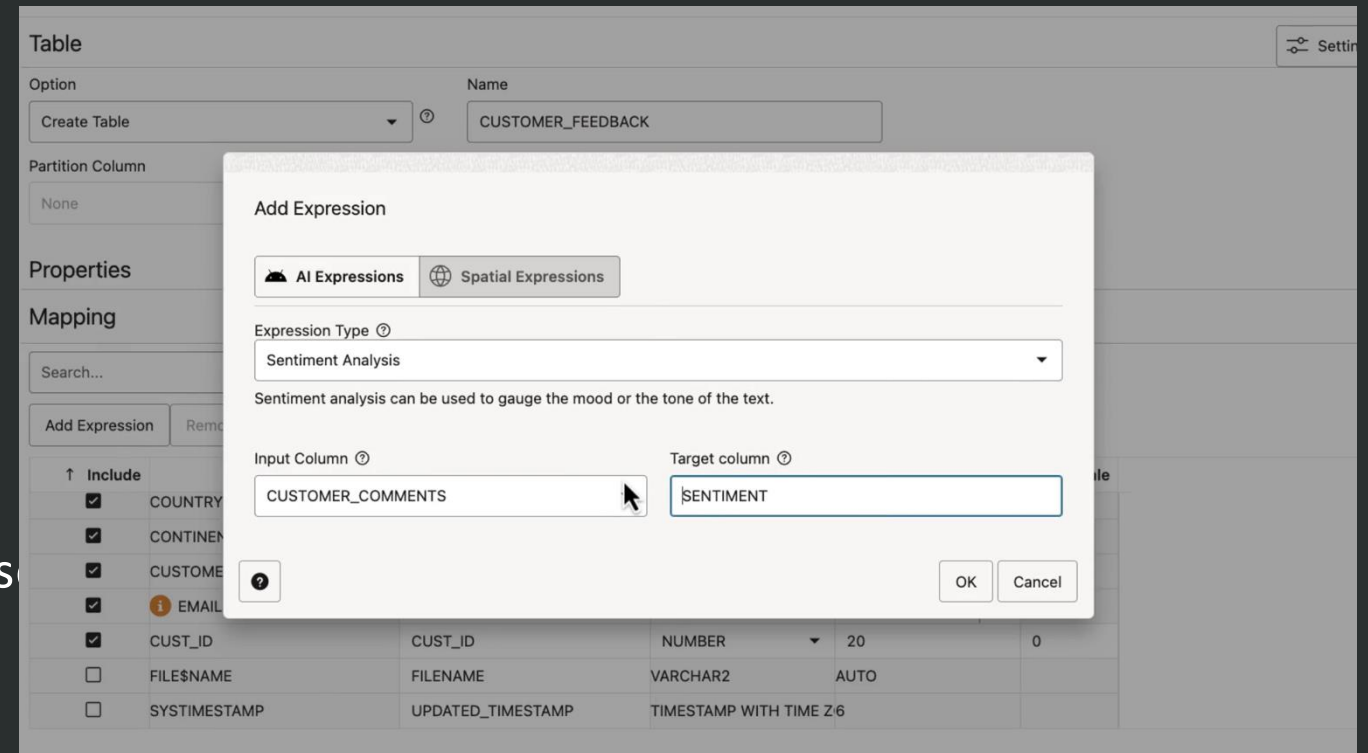
# Innovate with AI



# 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

Assist database developers to understand SQL queries – step by step

Return structured query results in text to present to users

### Chatbot

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

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

### RAG

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

### SDG

# 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



- OCI Generative AI



- OpenAI



- Azure OpenAI Service



- Cohere



- Google



- Anthropic



HUGGING FACE

- Hugging Face



AWS Bedrock

- Amazon Bedrock



- OpenAI-compatible providers

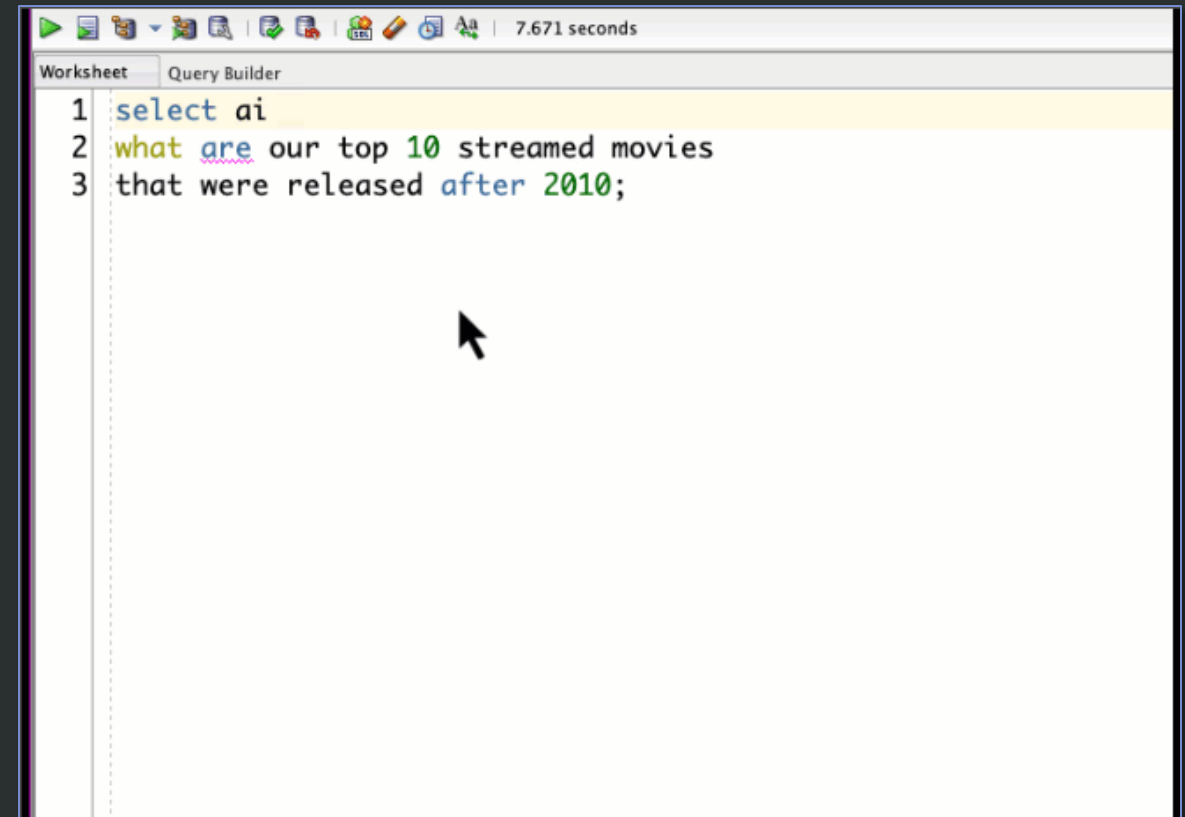
LLM from Private  
Endpoint in OCI

- Private endpoint hosted on OCI

# Use natural language to query data

## Actions

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





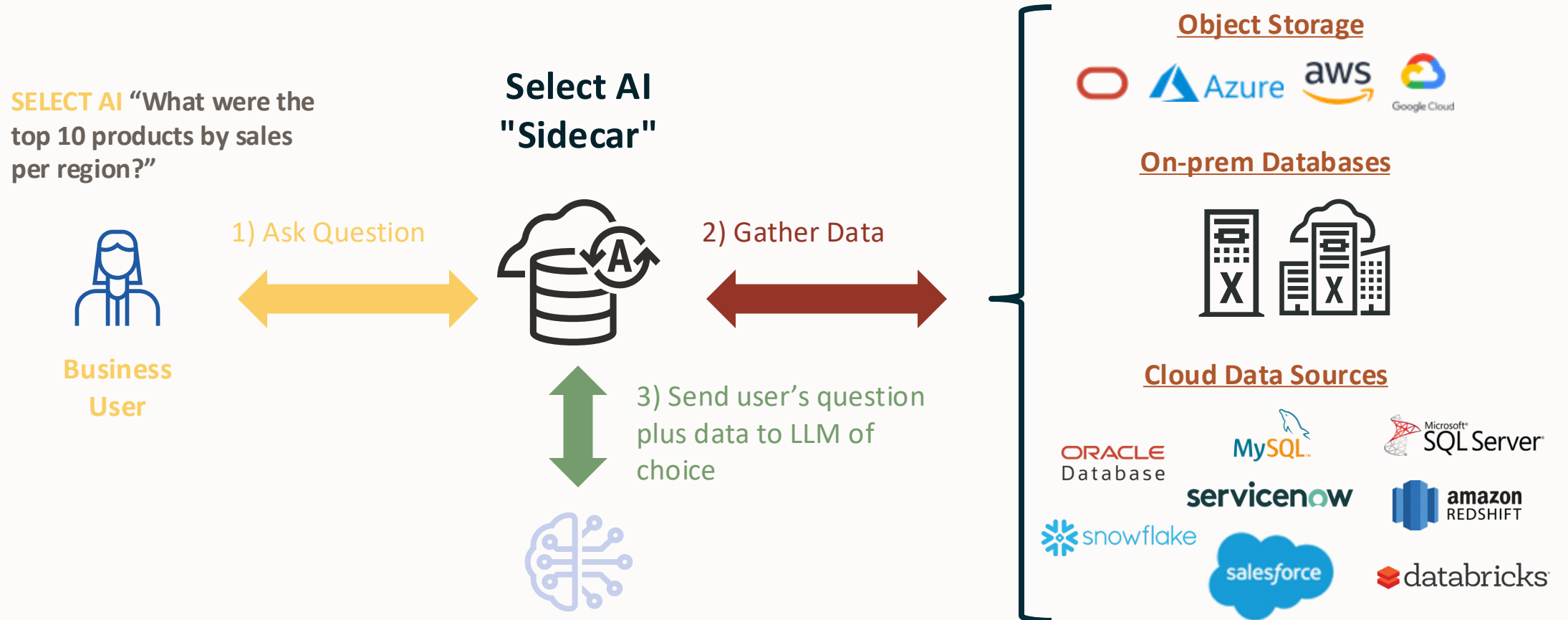
No questions have been asked!

🎤 Ask a question



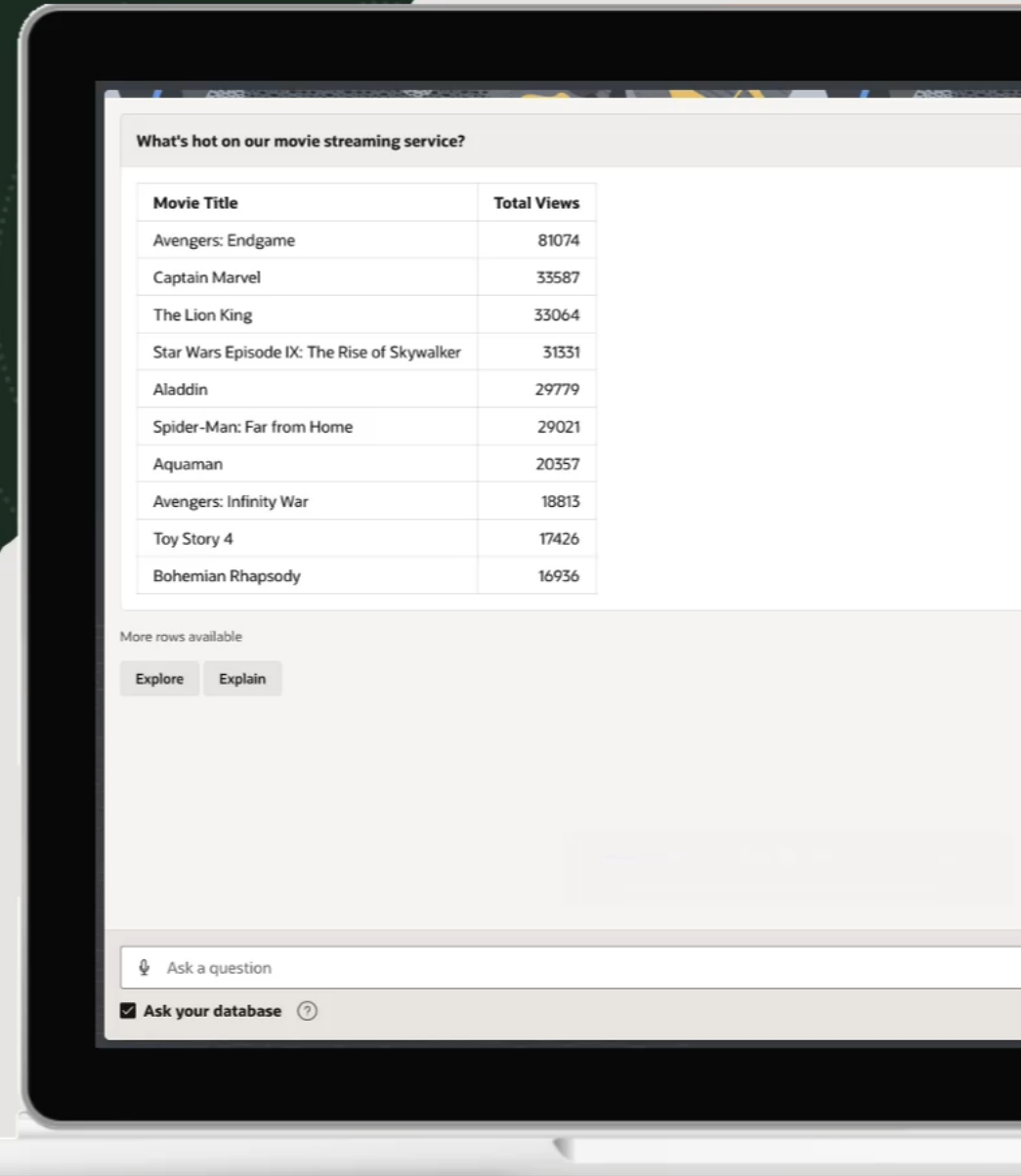
☒ Ask your database ?

# Select AI can answer questions about data in any data store using Autonomous AI Database's Distributed Data Capabilities



ORACLE

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



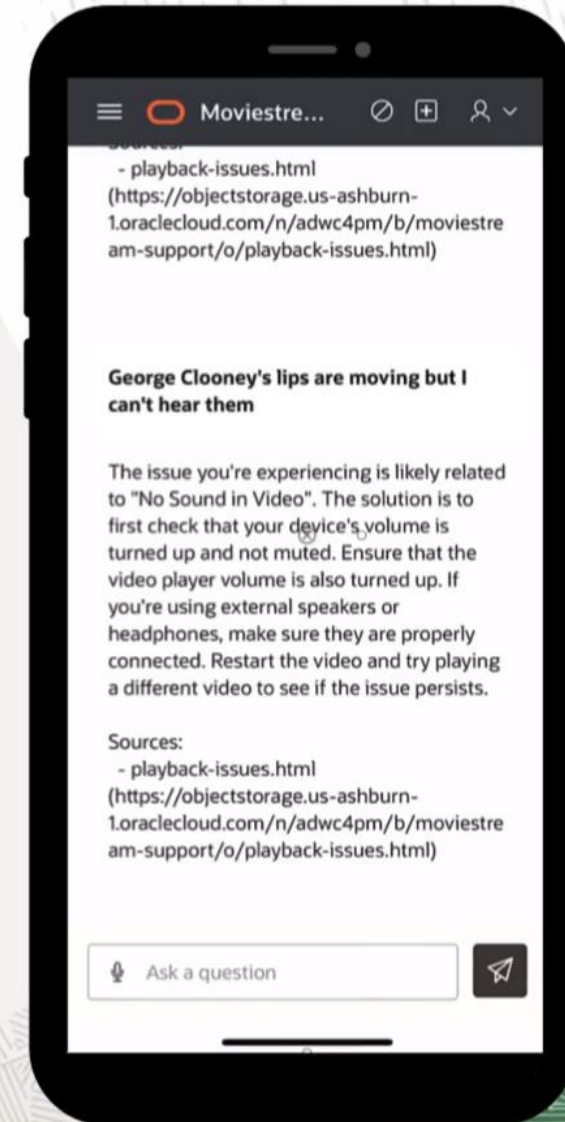
# Retrieval Augmented Generation (RAG)

---



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

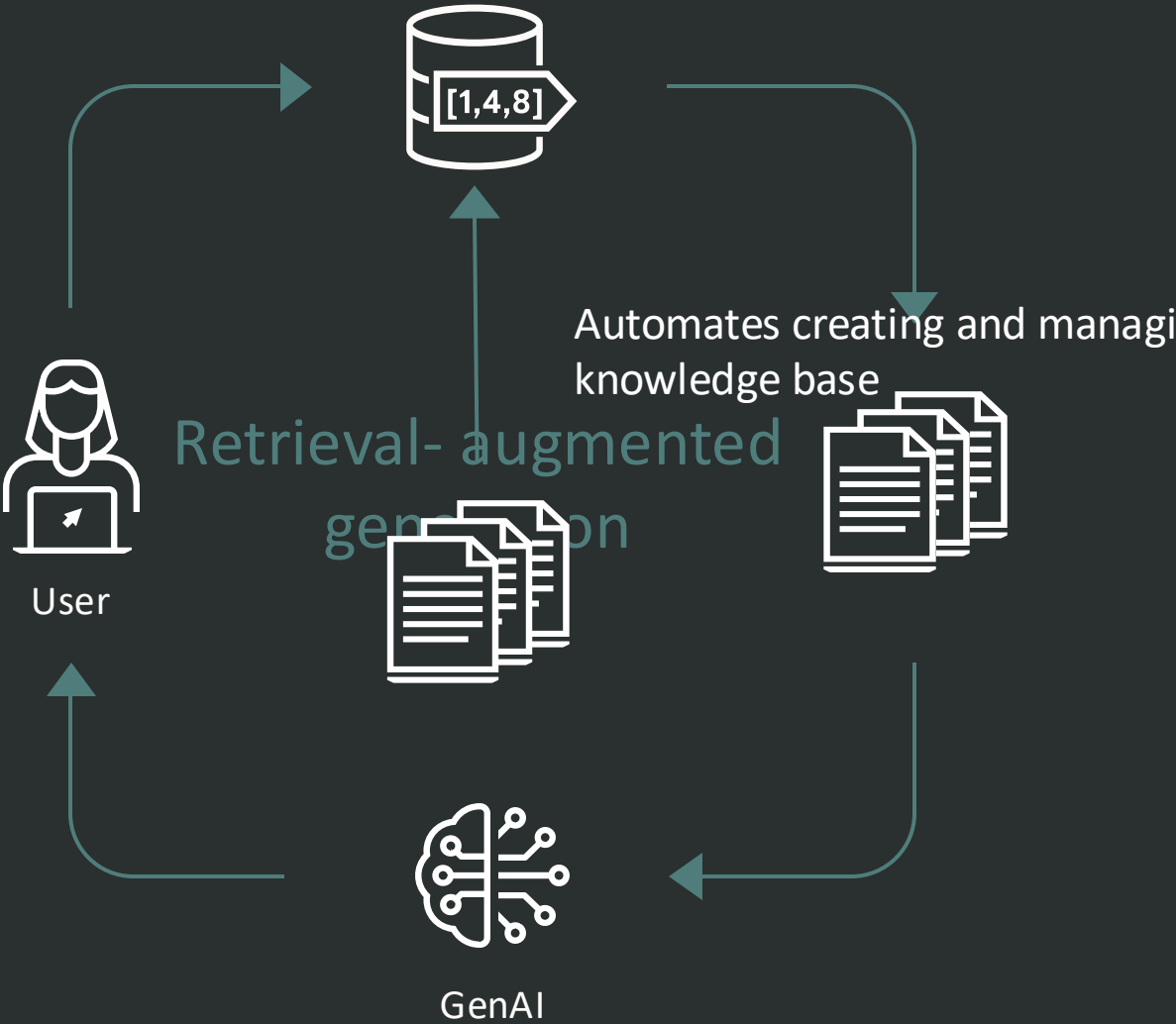
**Retrieval** – find information most relevant to a user's prompt, typically from a private knowledgebase or vector database

**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.**



ORACLE