

Register for the Select AI Office Hours series

Select AI Office Hours Getting Started with Select AI

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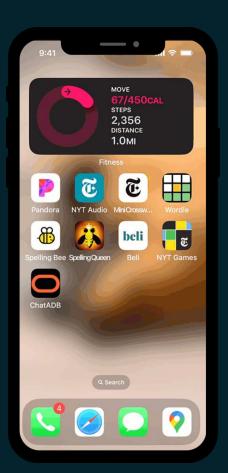
Agenda

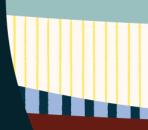
- > Select Al introduction
- > NL2SQL
- Chat genAl use case
- > RAG
- Synthetic Data Generation
- New features
- Roadmap



Select Al

Supporting LLM-enhanced application development and productivity through natural language





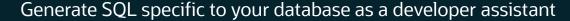


What can you do with Select Al?

A SQL interface for leveraging generative AI on Oracle Autonomous Database

Create applications using generative Al

- customer email generation
- recommendations
- sentiment analysis
- document summarization
- ...and more



Build apps to interact with data using natural language

Generate RAG-enhanced results using vector search

Generate synthetic data



Large Language Models

Generate text content – "next word predictors"



- Respond to this email...
- What is generative AI?
- Summarize this article...
- What's the sentiment of this text ...
- List my top 10 customers by revenue ?
- What is our internal corporate policy on <topic> ?

Tasks

Content generation

Question answering

Information extraction

Sentiment analysis

Chatbot/conversation

Content translation

Document summarization

Write email responses

Code generation

Discover topic/themes

Relationship extraction

...

Issues with LLMs

Hallucination

A confident response that doesn't seem justified by its training data or is simply not true

Bots can embed plausiblesounding random false information in their generated content

Often happens when an LLM doesn't understand the context of the request

Bias

Can reflect or augment biases present in training data text

E.g., if the training data contains articles on physicians, and the text mentions only doctors of a single gender, the LLM's responses will reflect this

Limitations

Can only know information available up to the training date of the LLM

General knowledge – not about your business/enterprise

Not "aware" of you as an individual or your personal data

Tokens limits on input prompt and output can impact session "memory" when generating responses

Select AI can help address such issues ...

ChatDB Demonstration

Using an APEX-based chatbot for NL2SQL



Use natural language to query data and get responses using generative Al

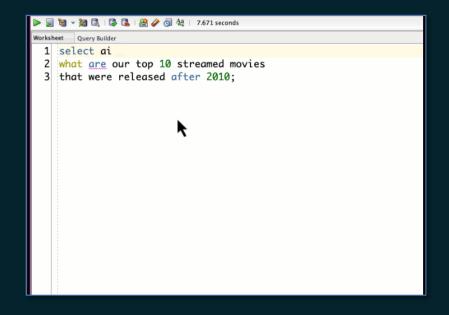
Easily access LLMs from multiple providers

- OCI GenAl Service
- OpenAl
- Azure OpenAl Service
- Cohere

- Google
- Anthropic
- Hugging Face
- ...more coming

Actions

- runsq1 return the SQL result set (default)
- **showsql** return the generated query
- explainsql explain generated SQL query
- **showprompt** display the generated prompt
- narrate return a conversational result
- **chat** general AI chat passthrough to LLM





SQL generation ChatGPT Example

Joins invented "Movies" and "StreamData" tables

Aggregates, including movie name

Orders result and selects top 10

Generate the SQL to find our top 10 streamed movies

To find the top 10 streamed movies, you'd likely have a table that tracks streaming data. Let's assume you have a table called `StreamData` with columns `MovieID` and `StreamCount` (indicating the number of times each movie has been streamed).

Another table called 'Movies' might contain information about each movie, including a unique 'MovieID' and 'MovieName'.

Here is an SQL query that will find the top 10 streamed movies:

```
SELECT m.MovieID, m.MovieName, SUM(s.StreamCount) AS TotalStreams

FROM Movies m

JOIN StreamData s ON m.MovieID = s.MovieID

GROUP BY m.MovieID, m.MovieName

ORDER BY TotalStreams DESC

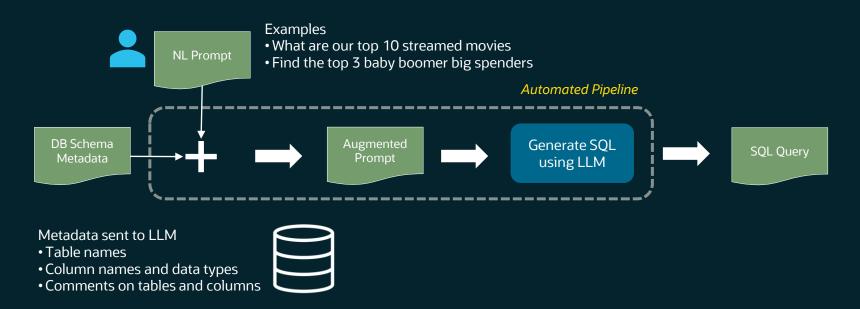
LIMIT 10;
```

In this SQL query, the `Movies` table is joined with the `StreamData` table on the `MovieID` field. It groups the results by `MovieID` and `MovieName` to calculate the sum of `StreamCount` for each movie. The query then sorts these results in descending order based on `TotalStreams` and limits the output to 10 records to get the top 10 streamed movies.

Again, please note that this is based on a hypothetical database schema, so your actual query might need to be different based on your specific tables and columns.

Uses "sum" for total streams

SQL query generation pipeline with 'showsql' action



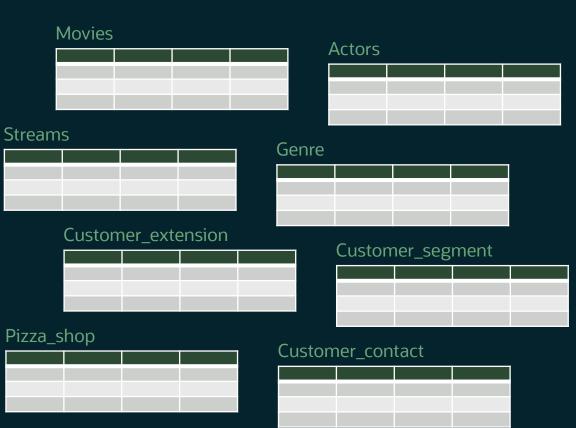
SQL> SELECT AI SHOWSQL what are our top 10 streamed movies



Query data in your database using natural language

An example for movie streaming service





Al Profile

Configure how you want to Select AI to behave for SQL generation

Choose your Al provider

Choose your LLM

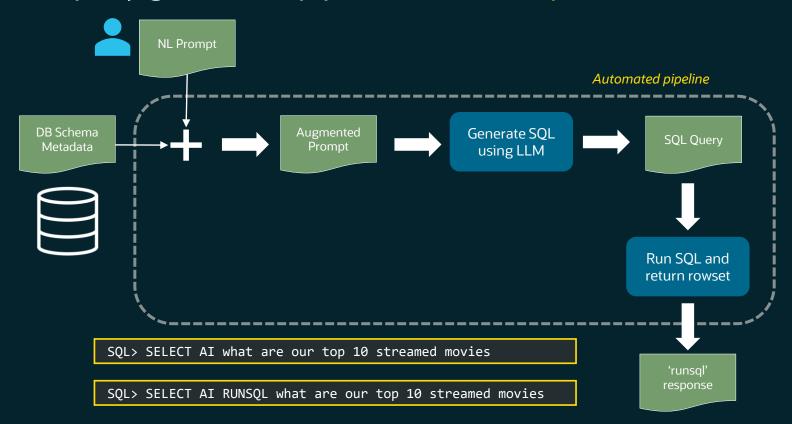
Work with your full schema or specific tables and views

Create profile →

- Profile name
- Al provider
- Credential
- Creacitia
- Object list

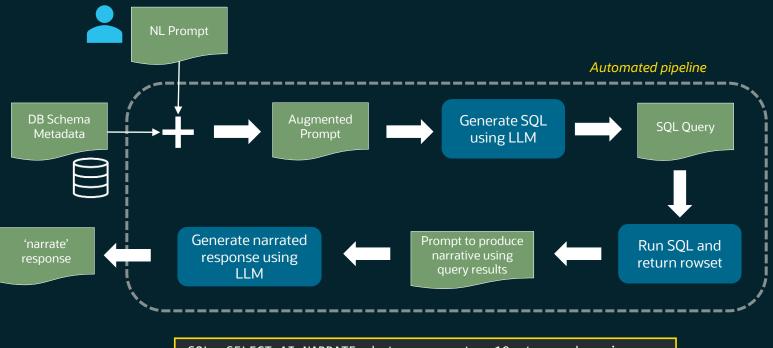
Set profile →

SQL query generation pipeline with 'runsql' action





SQL query generation pipeline with 'narrate' action



SQL> SELECT AI NARRATE what are our top 10 streamed movies



Select Al pipeline with 'chat' action

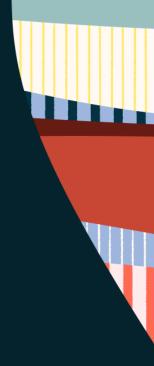


SQL> SELECT AI CHAT what is Oracle Autonomous Database



Select Al Demonstration

Getting started and using NL2SQL



Better SQL generation through better metadata

Metadata is key – a pathological case

TABLE1	TABLE2	TABLE3
CREATE TABLE table1 (c1 NUMBER, c2 VARCHAR2(200), c3 NUMBER	CREATE TABLE table2 (c1 TIMESTAMP, c2 NUMBER, c3 NUMBER, c4 NUMBER, c5 VARCHAR2(100), c6 NUMBER, c7 NUMBER	CREATE TABLE table3 (c1 NUMBER, c2 VARCHAR2(30)

```
TABLE1

COMMENT ON TABLE table1 IS 'Contains movies, movie titles and the year it was release COMMENT ON COLUMN table1.c1 IS 'movie ids. Use this column to join to other tables', COMMENT ON COLUMN table1.c2 IS 'movie titles';

COMMENT ON COLUMN table1.c3 IS 'year the movie was released';

TABLE2

COMMENT ON TABLE table2 IS 'transactions for movie views - also known as streams';

COMMENT ON COLUMN table2.c1 IS 'day the movie was streamed';
```

```
begin
 dbms cloud ai.create profile(
    profile name => 'myprofile',
    attributes =>
     '{"provider": "azure",
       "azure resource name": "my resource",
       "azure deployment name": "my deployment",
       "credential name": "my credential",
       "comments": "true
       "object list": [
   {"owner": "SELECT AI_USER", "name": "table1"},
   {"owner": "SELECT_AI_USER", "name": "table2"},
   {"owner": "SELECT AI USER", "name": "table3"}
       1}');
end;
```



Select Al supports conversations for chatbot-like behavior

Enable conversational LLM interaction

Select AI remembers your last 10 prompts and adds them to current prompt

Keep the conversation going with 'chat'

- → Start your chat
- → Ask follow-up questions

Refine your data exploration with 'runsql', 'showsql', 'narrate', 'explainsql'

- → Ask a question
- → Review the response
- → Follow up with more questions to refine, clarify, or get more info



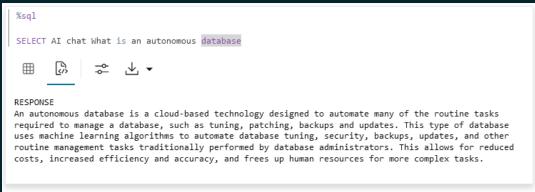
Conversations using 'chat'

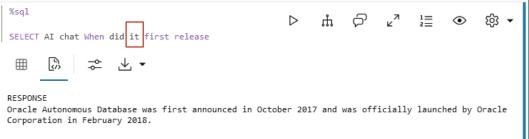
Enable conversational LLM interaction

```
BEGIN

DBMS_CLOUD_AI.CREATE_PROFILE (
    profile_name => 'OPENAI2',
    attributes =>
        '{"provider": "openai",
        "credential_name": "OPENAI_CRED",
        "model": "gpt-4",

"conversation": "true"}');
END;
```







Conversations for data

Enable conversational LLM interaction

Keep refining your question until you get the answer you need

- → Ask a question
- → review the response
- → follow up with more questions to refine, clarify, or get more info

Example

- What are our total streams?
- Break that out by genre
- Add customer segment
- Keep the top 5 customer segments and genres by total views

```
BEGIN
 DBMS CLOUD AI. CREATE PROFILE (
    profile name => 'your profile',
    attributes =>
        '{"provider": "azure",
          "azure resource name": "your-resource",
          "azure deployment name": "your-deployment",
          "credential name": "AI CREDENTIAL",
          "comments": "true",
          "conversation": "true".
          "object list": [
            {"owner": "moviestream", "name": "GENRE"},
            {"owner": "moviestream", "name": "CUSTOMER"},
            {"owner": "moviestream", "name": "PIZZA SHOP"},
            {"owner": "moviestream", "name": "STREAMS"},
            {"owner": "moviestream", "name": "MOVIES"},
            {"owner": "moviestream", "name": "ACTORS"}
END:
```

Enable chatbot-like conversations

```
sql-scripts > 1 conversations.sql > ...
      - Have a Conversation with your data
      - Ask an initial question and then build on that - just like a normal conversation
 37
      - Begin with a high level question
      select ai Start with our total streams;
      - Give me more details
      select ai Break that out by genre;
 44
      -- Which customer segments are watching the genres?
      select ai Add customer segment;
PROBLEMS
               QUITPUT
                         DEBUG CONSOLE
All rows fetched: 24 in 0.160 seconds
             GENRE_NAME
                                                                           TOTAL_STREAMS
             Documentary
                                                                           4344
             Family
                                                                           126255
                                                                           34161
             Mystery
             Adventure
                                                                           255163
```



Enhance GenAl with context from your database

Generate an email to a customer with activity recommendations for a customer-specific destination

Context from Autonomous Database

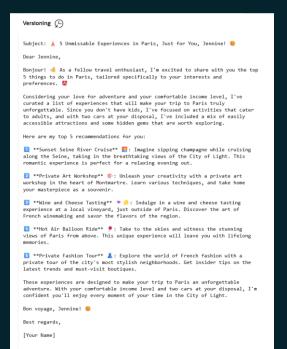
- Customer information
- Demographics
- Interests

Prompt instructions

- Recommend 5
 great things to do
 at location
- Write personalized email

LLM interaction

- Select Al "chats" with the LLM
- Returns generated content



Compelling, personalized promotion

Create structured application-specific prompts for the LLM

Query task and customer data

```
SELECT task,
  task_rules,
  last_name,
  first_name,
  location,
  age,
  gender,
  has_kids,
  num_cars,
  income_level,
  dog owner
FROM v_customer,
    genai_project_task
WHERE customer_id = 1
     task id = 3
```

Tabular result

TASK	TASK_RULES	LAST_NAME	FIRST_NAME	LOCATION	AGE	 DOG_OWNER
great things to do at the	1. Encourage the customer to do these things. Really sell them as to why it would be right for them	Mouly	Jennine	Paris, lle-De-France	37	 NO
	2. Consider all the information about the customer that's provided, including family and dog situation, whether they have a car and income 3. Format the result with emojis and make it fun					



Create structured application-specific prompts for the LLM

Query task and customer data

SELECT JSON OBJECT(*) FROM (SELECT task, task rules, last name, first name, location, age, gender, has kids, num cars, income level, dog owner FROM v customer, genai project task WHERE customer id = 1 AND task id = 3)

JSON document

```
"task": "Pick 5 great things to do at the location",
  "task rules": "
1. Encourage the customer to do these things. Really sell them as to why
it would be right for them
2. Consider all the information about the customer that's provided,
including family and dog situation, whether they have a car and income
    3. Format the result with emojis and make it fun",
  "last name": "Mouly",
  "first name": "Jennine",
  "location": "Paris, Île-De-France",
  "age": 37,
  "gender": "Female",
  "has kids": "NO",
  "num cars": 2,
  "income level": "F: Above 110,000",
  "dog owner": "NO"
```

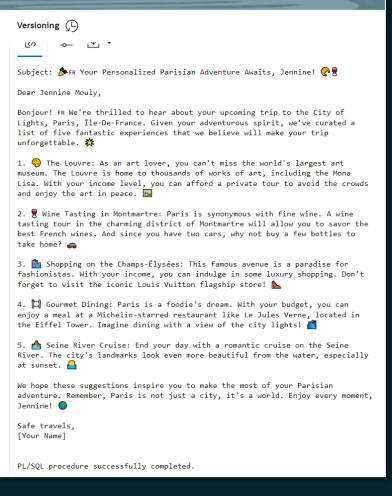
Create structured application-specific prompts for the LLM

Use GENERATE to make 'chat' request

```
DECLARE
 v response VARCHAR2(4000);
BEGIN
 v response := DBMS CLOUD AI.GENERATE(prompt => 'Generate email using the JSON specification
  {"task": "Pick 5 great things to do at the location",
   "task rules": "
      1. Encourage the customer to do these things. Really sell them as to why it would be right for them
      2. Consider all the information about the customer that''s provided, including family and dog situation,
         whether they have a car and income
      3. Format the result with emojis and make it fun",
   "last name": "Mouly",
   "first name": "Jennine",
   "location": "Paris, Île-De-France",
   "age": 37,
   "gender": "Female",
   "has kids": "NO",
   "num cars": 2,
   "income level": "F: Above 110,000",
   "dog owner": "NO"}',
  profile name => 'OCI GENAI PROFILE',
 action => 'chat');
 DBMS OUTPUT.PUT LINE(v response);
END;
```

Response from LLM

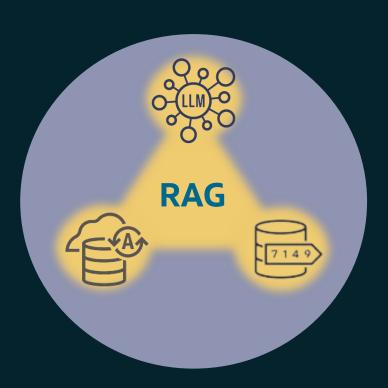
Notebooks > SELECT AI Demonstration



Retrieval Augmented Generation (RAG)

Simplifies RAG workflow so any database user can use it!

- ✓ Give the LLM new knowledge without fine-tuning
- ✓ Use natural language for semantic similarity search and LLM response generation
- ✓ Seamless integration with Oracle Al Vector Search
- Automate orchestration steps with fully managed
 Vector Index pipeline for new data



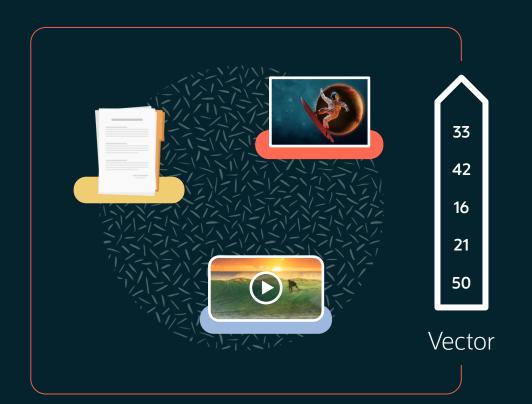




Databases are great at querying business data that is stored as strings, numbers, and dates

They have not been good at querying unstructured data such as text, images, audio, and videos

Semantic similarity search involves querying related content using vectors



A vector is a sequence of numbers, called dimensions, that represent the semantic content of a document, image, audio, or video

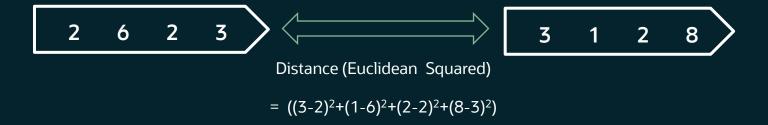
Vectors represent the semantic content of data, not the underlying words or pixels

Deep learning transformers (or embedding models) generate vectors

The terms *vector* and *embedding* are often used interchangeably



The main operation on vectors is the mathematical distance between them



Oracle Database supports multiple mathematical distance functions



Retrieval Augmented Generation (RAG)

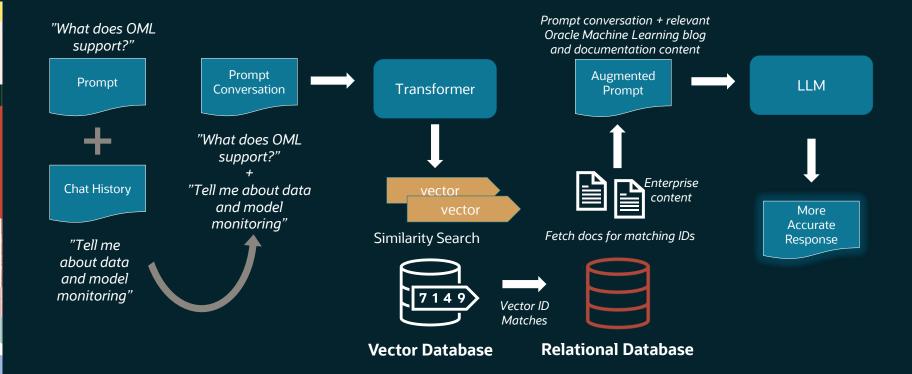


A technique that uses **private database** content to **augment user-provided prompts** using semantic similarity search with LLMs

RAG enables LLMs to use business data to produce better and more accurate responses and not fine-tune LLMs using that data, which may introduce security concerns

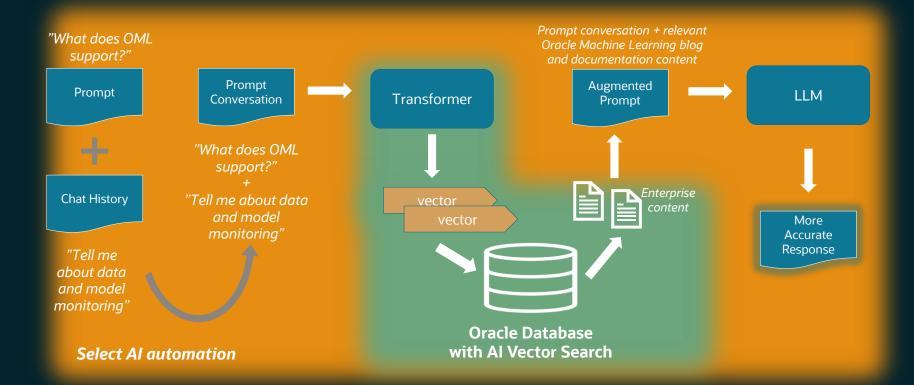
RAG pipeline example

Search Oracle Machine Learning blogs to answer question



RAG pipeline example

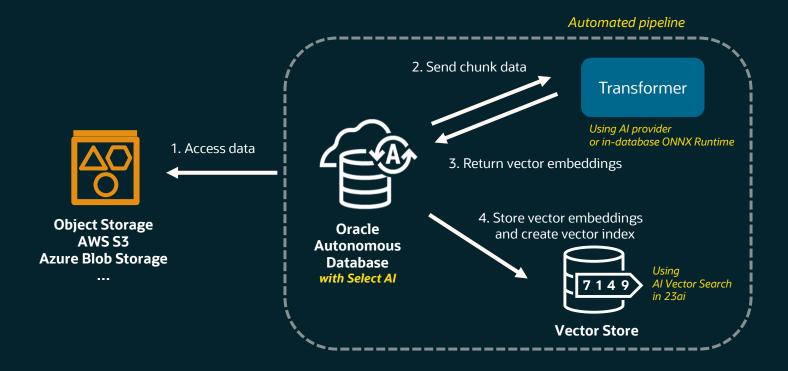
Search Oracle Machine Learning blogs to answer question





Select Al Retrieval Augmented Generation (RAG)

Step 1: Create your vector content...automated by Select Al





Create a vector index

Example

Specify your AI provider and embedding model

Create the vector index

Create a RAG-enabled Al Profile for use with 'narrate' and 'runsql'

Example



Select Al Retrieval Augmented Generation (RAG)

Step 2: Use the 'narrate' action to leverage RAG in Select Al Automated pipeline Using Al provider Transformer or in-database ONNX Runtime 1. Send prompt chunks 2. Return vector embeddings Ask a question **NL Prompt** 3. Search vector index using 'narrate' 4. Return top K vector results **4**................ Oracle **Vector Store** Get a response **Autonomous** 5. Send augmented prompt Using **Database** Al Vector Search with Select Al in 23ai 6. Return generated result



Example using 'narrate' on Oracle Machine Learning blogs

EXEC DBMS_CLOUD_AI.SET_PROFILE('OPENAI_GPT');

SELECT AI NARRATE What type of monitoring is enabled in Oracle Machine Learning

RESPONSE

Oracle Machine Learning enables two types of monitoring: Data Monitoring and Model Monitoring.

Data Monitoring is a no-code user interface that provides insight into how enterprise data evolves over time. It helps to identify data drift and gain insight into individual data features and their interactions. This tool is essential for maintaining data integrity for enterprise applications and dashboards.

Model Monitoring, on the other hand, helps maintain the accuracy of machine learning models and the effectiveness of applications. It detects concept drift and quality drift, tracking and reporting changes in model prediction patterns and accuracy. This helps to know when models need to be rebuilt or when other causes such as data drift need to be investigated.

Sources:

- Announcing-OML-Data-Monitoring-User-Interface-on-Autonomous-Database.txt
- (https://objectstorage.../select_ai_rag_demo_1/o/Announcing-OML-Data-Monitoring-User-Interface-on-Autonomous-Database.txt)
- Announcing-OML-Monitoring-on-Autonomous-Database.txt (https://objectstorage.../select_ai_rag_demo_1/o/Announcing-OML-Monitoring-on-Autonomous-Database.txt)
- Simplify-your-model-monitoring-and-MLOps-with-OML-Model-Monitoring-UI.txt

(https://objectstorage.../select_ai_rag_demo_1/o/Simplify-your-model-monitoring-and-MLOps-with-OML-Model-Monitoring-UI.txt)



Example using 'runsql'

SELECT AI RUNSQL What type of monitoring is enabled in Oracle Machine Learning

DATA	SOURCE	URL	SCORE
We are pleased to announce the availability of Oracle Machine Learning (OML) Monitoring as part of OML Services on Oracle Autonomous Database. With OML Monitoring, you can be alerted to issues in both data and native in-database model quality. In data-driven enterprises, you need to know if there	Announcing-OML- Monitoring-on- Autonomous- Database.txt	https:// <bucket>/Announcing-OML- Monitoring-on-Autonomous- Database.txt</bucket>	0.26
•••			

Select Al with RAG Demonstration





Synthetic Data Generation (SDG)

Realistic test data generated by LLMs

Support multiple use cases

Jumpstart a new project

Validate the user experience

Integrate with Autonomous Database Metadata Clone for test-dev scenarios

Simple and Scalable





Example of synthetic data generation for single table

```
-- Create new or use existing table
-- Generate rows

BEGIN
   DBMS_CLOUD_AI.generate_synthetic_data(
    profile_name => 'GENAI',
    object_name => 'Director',
    owner_name => 'SELECT_AI_USER',
    record_count => 5,
    user_prompt => 'born after 1950'
   );
END;
```

```
-- Ouery the table to see results
SQL> SELECT * FROM SELECT AI USER.Director
DIRECTOR ID NAME
          1 John Smith
          2 Emily Chen
          3 Michael Brown
          4 Sarah Taylor
          5 David Lee
-- Or ask select ai to show the results
SQL> SELECT AI how many directors are there
NUMBER OF DIRECTORS
```



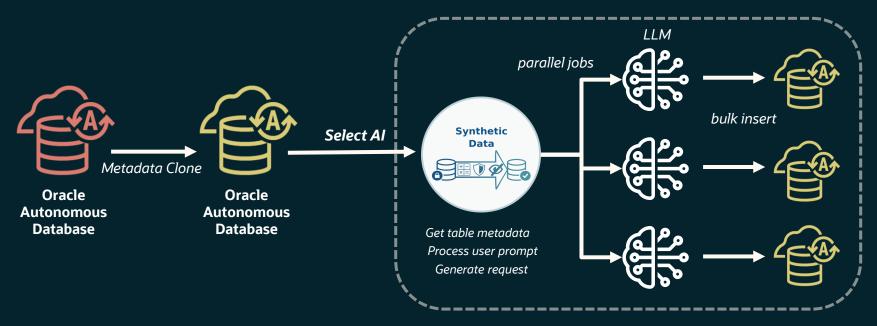
Example of synthetic data generation for multiple tables

```
-- Create new/use existing tables with
-- optional referential integrity constraints
BEGIN
DBMS CLOUD AI.generate synthetic data(
 profile name => 'GENAI',
 object list =>
   '[{"owner": "SELECT AI USER",
      "name": "Director", "record count":5},
     {"owner": "SELECT AI USER",
      "name": "Movie Actor", "record count":5},
     {"owner": "SELECT AI USER",
      "name": "Actor", "record count":10},
     {"owner": "SELECT AI USER",
      "name": "Movie", "record count":5,
      "additional prompt":
      "all movies are released in 2009"}]'
 );
END;
```

```
-- Query the table to see results
SOL> SELECT * FROM SELECT AI USER.Movie
MOVIE ID TITLE
                           RELEASE D GENRE DIR ID
      1 The Dark Knight 15-JUL-09 Action 8
      2 Inglourious Basterds 21-AUG-09 War
      3 Up in the Air
                           04-SEP-09 Drama 6
      4 The Hangover 05-JUN-09 Comedy 1
      5 District 9
                           14-AUG-09 Sci fi 10
-- Or ask select ai to show the results
SQL> SELECT AI how many actors are there
Number of Actors
             10
```



Metadata Clone + Synthetic Data



Synthetic Data Generation Workflow







Recent New Features

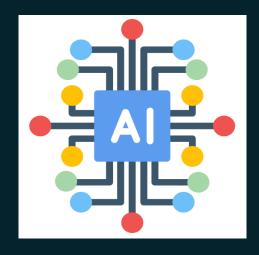
Support on-premises, non-ADB Oracle Database 23.7 (NI2SQL only)

Use ONNX-format transformers from in-database ONNX Runtime

"embedding model":"database:ALL MINILM L12 V2"

Al Providers

- Google Gemini
- Anthropic Claude
- Hugging Face, e.g. Mistral, DeepSeek, etc.







Roadmap

Support on-premises, non-ADB Oracle Database 23.8 (with RAG and SDG)

Provide a conversation management API

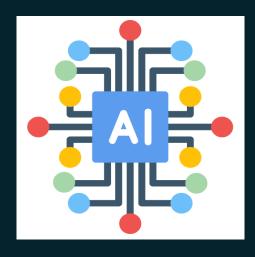
NL2SQL

RAG

Al Profile

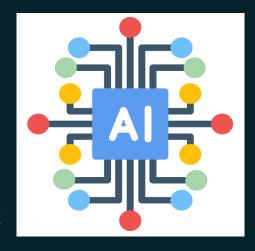
Al Providers

Actions



Roadmap: NL2SQL

- ✓ Support 23ai ANNOTATIONS on tables/columns in metadata
- ✓ Augment metadata with foreign key constraints
- ✓ Enable case-insensitive WHERE clause for better query responses
- ✓ Historical view of Select AI prompts and responses
- ✓ Support Analytic Views
- Handle large schema by automatically detecting object list for prompt metadata
- ✓ Collect feedback/corrections on generated SQL to improve prompt tuning





Roadmap: Handle large schema metadata

Automates/optimizes selection of schema object (tables/views) based on user prompt

Can significantly reduce metadata volume sent to LLM

Leverages AI Vector Search with transformer defined in AI profile

Process

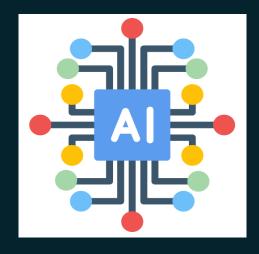
- Vectorize schema metadata of all schema objects
- Periodically update vector data (per settable refresh rate) to reflect schema changes
- Based on the vector similarity, retrieve metadata for top K (default match_limit 10) most relevant objects
- Adjust **similarity_threshold** to determine most contextually similar objects

Enabled using Al Profile attribute "object_list_mode": "automated"



Roadmap: RAG

- ✓ Process PDF, XLS, and PPT files for vector index creation
- ✓ Include chunk offsets in RAG sources listing
- ✓ Multi-modal LLM and transformer supporting images and text
- ✓ Hybrid vector index support
- ✓ Graph RAG
- ✓ Enable vector index creation from database table columns
- ✓ Support multiple document sources in same Al profile
- Additional document sources from directory objects (DBFS or NFS),
 Google Drive, and MS SharePoint

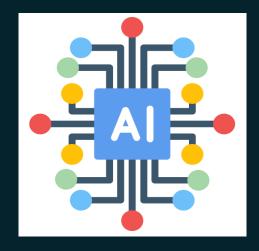




Roadmap: Al Profile

Settings to:

- ✓ Specify conversation chat history length and retention period
- ✓ Restrict tables used to those explicitly listed
- ✓ Enable using a single AI Profile for both object list for NL2SQL and vector index with RAG





Roadmap: Conversation Management API

Supports building ChatGPT-like chatbots

Persist conversations across sessions

Provide manual or LLM-generated conversation titles

Set the conversation retention period (# days before deletion)

Facilitates use within Oracle APEX

API

- RESET_CONVERSATION ()
 Remove history from current conversation (start over)
- BEGIN_CONVERSATION (name)
 Start new named conversation
- DELETE_CONVERSATION (name)
 Remove named conversation
- LOAD_CONVERSATION (name)
 Load named conversation and continue using
- LIST_CONVERSATIONS ()
 Return list of existing named conversations
- SELECT * FROM V\$ view
 Return rowset of existing named conversations

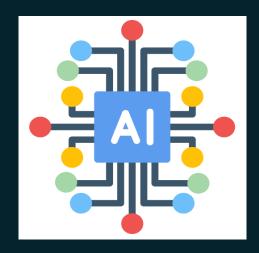


Roadmap: Al Providers

✓ Support privately hosted LLMs using Ollama over private endpoints In Al Profile

```
"provider":"ollama"
  "provider_endpoint":"myhost.oraclevcn.com"
and then...
  alter database property
  set route_outbound_connections = 'ENFORCE_PRIVATE_ENDPOINT'
```

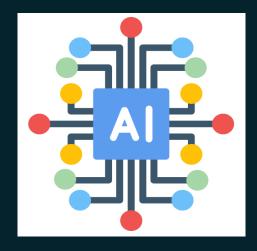
- ✓ ADB-provided LLM
- ✓ AWS Bedrock and OpenAl-compatible providers





Roadmap: Actions

- ✓ 'summarize' return text summarization of long-passage text
- ✓ 'feedback' user feedback on NL2SQL results to improve future queries
- ✓ 'embedding' return prompt embedding from transformer
- √ 'showprompt' return augmented prompt sent to LLM
- √ 'admin' support for database administration





Roadmap: Prompt tuning with 'feedback' action

```
-- SOL Text
SQL> select ai feedback for query
"select ai showsql how many watch histories in
total", use sum instead of count
SQL> select ai feedback for query
"select ai showsql how many watch histories in
total", the sql query generated is correct
-- SOL ID
SOL> select ai feedback
use sum instead of count for sql id 1v1z68ra6r9zf
SOL> select ai feedback
sql query result is correct for sql id 1v1z68ra6r9zf
-- Latest SELECT AI statement invoked (default)
SQL> select ai feedback
use ascending sorting for ranking
SOL > select ai feedback
the result is correct
```

```
DBMS_CLOUD_AI.FEEDBACK(profile_name sql_text IN CLOB, feedback_type IN VARCHAR2, response IN CLOB);

DBMS_CLOUD_AI.FEEDBACK(profile_name sql_id IN VARCHAR2, feedback_type IN VARCHAR2, feedback_type IN VARCHAR2, response IN CLOB);
```



Roadmap: Al for ADMINs

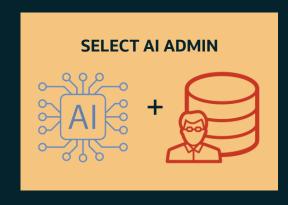
Simplify database administration using Al

Troubleshoot SQL performance Identify Application bottlenecks Monitor Database resources

Enable via new action 'admin'

LLM categorizes user question

Category determines specific prompt instructions





Roadmap: Al for ADMINs

```
SQL> SELECT AI ADMIN find any issues with queries on employee table
RESPONSE
The SQL statement `select * from employee` has an issue related to the Cost-Based Optimizer (CBO)
system statistics. The observation indicates that the workload CBO statistics are not gathered, and
the CBO is using default values. This can lead to suboptimal execution plans.
To address this, you should gather system statistics using the `DBMS STATS.GATHER SYSTEM STATS`
procedure. Here is an example of how you can do this:
BEGIN
  DBMS STATS.GATHER SYSTEM STATS('INTERVAL', interval => 60);
END:
This command gathers system statistics over a 60-minute interval. Adjust the interval as needed
based on your workload and system activity.
```

For more information on Select Al...

Blogs

Announcing Select AI with Retrieval Augmented Generation (RAG) on Autonomous Database

Announcing Select Al for Synthetic Data Generation

Introducing Select Al Natural Language to SQL on Autonomous Database

Announcing Select AI with Azure OpenAI Service on Autonomous Database

Announcing Select AI on Autonomous Database with OCI Generative AI Service

How to help Al models generate better natural language queries

Conversations are the next generation in natural language queries

Accelerate innovation with enterprise data, OCI Generative AI, and enhanced security

Documentation

https://docs.oracle.com/en-us/iaas/autonomous-database-serverless/doc/sql-generation-ai-autonomous.html

LiveLabs

Chat with Your Data in Autonomous Database Using Generative Al Develop apps using GenAl, Autonomous Database, and React

Videos

<u>Simplify Developing RAG Applications</u> <u>Autonomous Database Speaks "Human" using Select Al</u>







Getting Started with Select Al

