

Natural Language Queries Just Ask Your Database

Use natural language to analyze your
data using Select AI and GenAI.

Oracle can bring **AI**
to the enterprise
at **every layer**
of our stack.



SaaS Apps

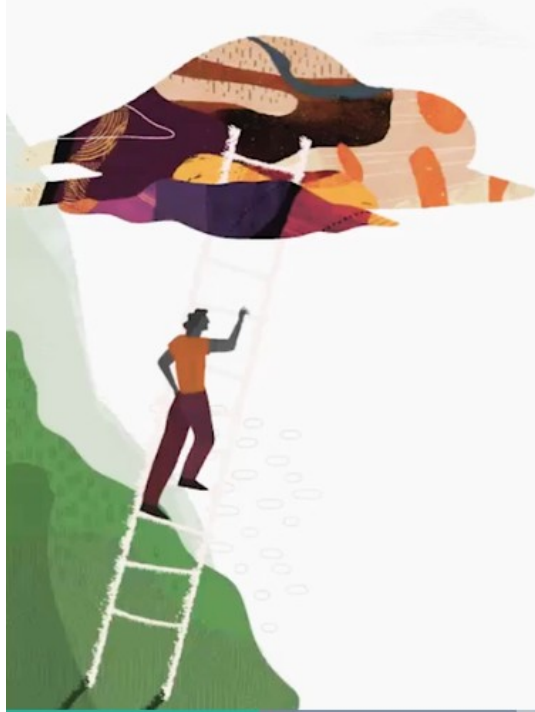
AI Services

Data

Infrastructure

Partners

Agenda



Select AI in Oracle Autonomous Database

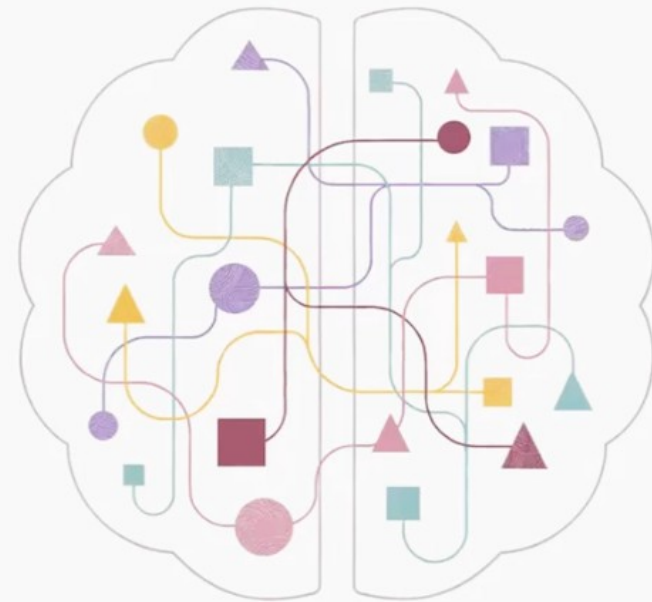
Easily query your data using natural language

SQL query generation process flow

Autonomous Database Select AI

Simplest way to get answers about your business

- > Use **your language** to query data.
- > There is no need to understand where and how your data is stored to gain insights.



Select AI

Simplest way to get answers about your business

Just ask a question.

Autonomous Database
manages the entire
query process to
produce your answer.

The screenshot displays the ADB Chat interface. On the left, a sidebar lists recent queries: "George Clooney: Known for ...", "Albert Einstein: A Brief Intro...", and "Exploring NYC: A One-Week ...". The main area shows a query input field with the text "what are our total streams for each tom hanks movie this month?". Below the input, a table displays the results. The table has two columns: "Movie Title" and "Total Streams". The results are as follows:

Movie Title	Total Streams
Forrest Gump	443.00
Sleepless in Seattle	95.00
Splash	47.00
Angels & Demons	249.00
Saving Private Ryan	212.00
Who Killed the Electric Car?	6.00
Philadelphia	101.00
Big	116.00
Cast Away	222.00
The Great Buck Howard	3.00

Below the table, it says "More rows available" with links for "Explore" and "Explain". At the bottom, there is a checkbox labeled "Ask Database" which is checked, and a small help icon.

What are our total streams for each Tom Hanks movie this month?

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More rows available
[Explore](#) [Explain](#)

what are our total streams for each tom hanks movie this month?

☒ Ask Database ⓘ

Demonstration

Speak "Human" to
Autonomous Database
to get your business
questions answered.

The screenshot shows the ADB Chat interface. On the left, a sidebar lists conversation topics: "George Clooney: Known for ...", "Albert Einstein: A Brief Intro ...", and "Exploring NYC: A One-Week ...". The main chat area displays a conversation. The user asks, "what are our total number of views for each George Clooney movie". The system responds with a table of movie titles and their total views.

TITLE	TOTAL_VIEWS
Syriana	1344.00
The Perfect Storm	2,262.00
Gravity	3,051.00
Ocean's Eleven	4,214.00
Ocean's Twelve	2,890.00

Below the table, there are links for "Explore" and "Explain". At the bottom, there is a search bar with the placeholder "Ask a question" and a checkbox labeled "Ask Database" which is currently checked.

- Top 10 Streamed Movies
- "Albert Einstein: A Brief Intro..."
- Exploring NYC: A One-Week ...
- Summary of the movie "Big"
- Harrison Ford's Notable Achi...

What are our top 10 streamed movies?

MOVIE_TITLE	NUM_STREAMS
Avengers: Endgame	81,074.00
Captain Marvel	33,587.00
The Lion King	33,064.00
Star Wars Episode IX: The Rise of Skywalker	31,331.00
Aladdin	29,779.00
Spider-Man: Far from Home	29,021.00
Aquaman	20,357.00
Avengers: Infinity War	18,813.00
Toy Story 4	17,426.00
Bohemian Rhapsody	16,936.00

Explore SQL

who starred in Avengers: Endgame?

Ask Database

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Explore SQL

who starred in Avengers: Endgame?

ACTOR
Stan Lee
Ava Russo
James Lin
Joe Russo
Ken Jeong
Lee Moore
Lexi Rabe
Mike Lutz
Paul Rudd
Sean Gunn

More rows available
Explore SQL

Ask a question

☒ Ask Database

- Top 10 Streamed Movies
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SQL

Update SQL

```
1 SELECT m.TITLE, COUNT(s.DAY_ID) AS TOTAL_STREAMS
2 FROM MOVIESTREAM.MOVIES m
3 JOIN MOVIESTREAM.STREAMS s ON m.MOVIE_ID = s.MOVIE_ID
4 JOIN MOVIESTREAM.ACTORS a ON m.MOVIE_ID = a.MOVIE_ID
5 WHERE a.ACTOR IN ('Paul Rudd', 'Stan Lee')
6 GROUP BY m.TITLE
```

Select AI Translates Your Language into Oracle SQL Language

Processes question using an AI large language model (LLM)

Question

Inference

what are our

Total streams



Total number of
movie views



For each



Breakout views
by movie



Tom Hanks
movie



Tom Hanks is
an actor.



this month?



Understanding
of time



```
SELECT
  m.title AS movie_title,
  COUNT(s.views) AS total_streams
FROM movie m
  JOIN activity s ON m.movie_id = s.movie_id
  JOIN actors a ON m.movie_id = a.movie_id
WHERE a.actor = 'Tom Hanks'
  AND EXTRACT(MONTH FROM s.day_id) =
    EXTRACT(MONTH FROM SYSDATE)
GROUP BY m.title
```

Developing Apps with Select AI

Simple

Designed so that you can easily build generative AI capabilities into new or existing applications

Future-enabled

Choose from an array of large language models. Pick the model that is best suited to your business.

Secure

Rely on the same Oracle Database security that protects your data. Plus, when using OCI Generative AI, your data will not be sent to the LLM provider or seen by other customers.

Easy to Extend and Build New Natural Language Apps

The screenshot shows a 'Query Builder' window with a 'Worksheet' tab. The query is entered in three lines:

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

Below the query, the 'Query Result' tab is active, displaying a table with 10 rows. The table has two columns: 'MOVIE_TITLE' and 'STREAM_COUNT'. The data is as follows:

MOVIE_TITLE	STREAM_COUNT
1 Avengers: Endgame	81074
2 Captain Marvel	33587
3 Star Wars Episode IX: The Rise of Skywalker	31331
4 Spider-Man: Far from Home	29021
5 Aladdin	24058
6 The Lion King	22627
7 Aquaman	20357
8 Avengers: Infinity War	18813
9 Toy Story 4	17426
10 Bohemian Rhapsody	16936

Use a **standard SELECT** statement followed by **AI and your question**.

Process the result as you would any other SQL result set.

Have a **Conversation** to Get Your Questions Answered

```
sql-scripts > conversations.sql > ...
35 -- Have a Conversation with your data
36 -- Ask an initial question and then build on that - just like a normal conversation
37
38 -- Begin with a high level question
39 select ai Start with our total streams;
40
41 -- Give me more details
42 select ai Break that out by genre;
43
44 -- Which customer segments are watching the genres?
45 select ai Add customer segment;
46
```

Your first question is not your last!

Keep refining your questions until you get the answer you need.

Future-Enabled: Easy to Configure Your Data for Natural Language Queries

Use one or more **Select AI Profiles** that is best for your business.

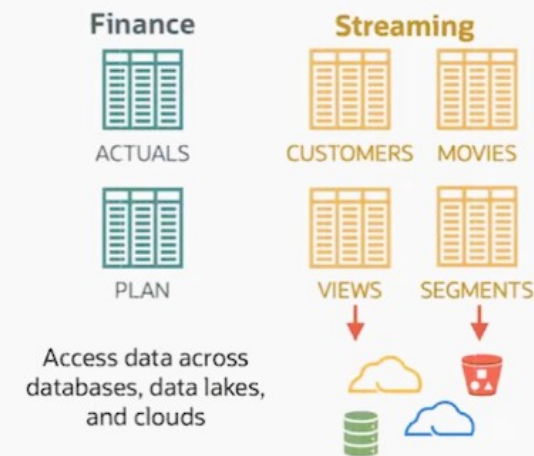
1

Choose an LLM to generate a database query from natural language.



2

Specify schemas, tables and/or views to participate in processing.



Easy to Configure Your Data for Natural Language Queries

Use one or more AI profiles that is best for your business.

1

Choose an LLM to generate a database query from natural language.

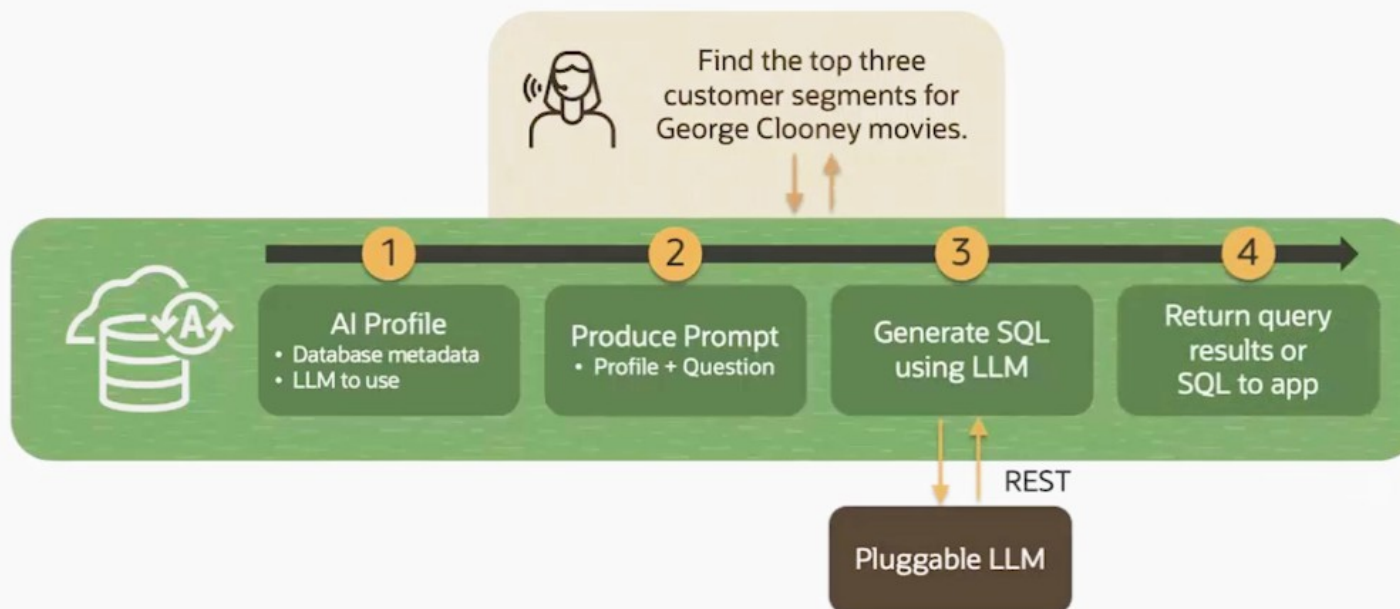
2

Specify schemas, tables and/or views to participate in processing.

Simple PL/SQL API creates AI profile:

```
dbms_cloud_ai.create_profile(  
  profile_name => 'movie_nl_processing',  
  attributes =>  
    '{"provider": "genai",  
     "credential_name": "GENAI_CRED",  
     "object_list": [{"owner": "myschema",  
                      "name": "movie"},  
                    {"owner": "myschema",  
                      "name": "sales_sample"},  
                    {"owner": "myschema",  
                      "name": "customer"} ]  
}'  
);
```


SQL Query Generation Process Flow



Simplest way to get answers
about your business

Key Takeaways



Easily build AI into your apps



Secure at every layer



Future-enabled



