

APEX Day in Paris

Bienvenue

En partenariat avec





En collaboration avec











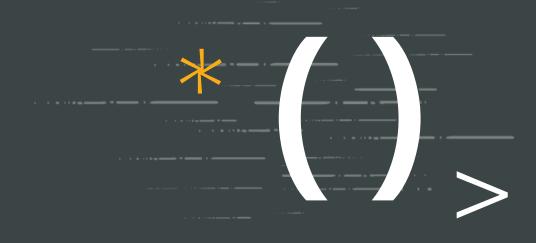




ā'pěks

APEX Day in Paris

Bienvenue





Patrick Le Martret
Technology Marketing Director, Oracle



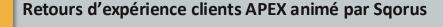




Agenda | APEX Day in Paris

Matinée

10h00	Session d'ouverture Oracle APEX
11h00	Simon Hunt, Head of Product Management, Oracle APEX, Oracle Corporation



11h00
11h40

> Etudes de cas : Onet Airport Services & SNCF
Adrien Laplanche, Onet Airport Services
Claude Sirois, SNCF
Aurélien Dinh, Sqorus

Retours d'expérience clients APEX animé par Talan

11h40
12h20> Table ronde12h20Edith Poirier, Agilab
Pierre-Louis Giros, Allshare
Arnaud Buil, TransgourmetMohamed El Machtani Idrissi, Aareon
Damien Leveugle, Actemium
Louis Moreaux, Talan

12h20
12h30 Conclusion de la matinée
12h30 Mónica Godoy, Senior Principal Product Manager for Oracle APEX, Oracle Corporation









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Agenda | APEX Day in Paris

Après-midi







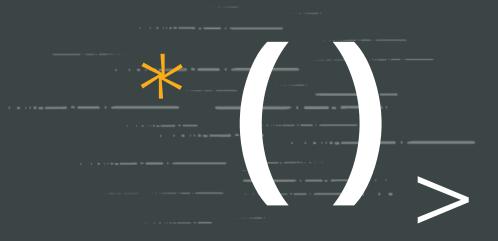




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APEX Day in Paris

Opening Session – APEX Overview





Simon HuntHead of Product Management, Oracle APEX, Oracle Corporation









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Oracle APEX

Build AI-powered, mission-critical apps faster using APEX

Simon Hunt QVRM

Head of Product Management (Oracle APEX)
Database Tools Division
September 2025





Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.











Experience

Oracle: 1 year

MOD Contractor: 20 years

British Army: 29 years

Expertise

20 Years building Enterprise APEX Solutions

AT LA SOLUTIONS

29 Years - Army Officer

Location

UK



Head of Product Management Oracle APEX

What is APEX?

APEX is a popular enterprise low-code application platform for building custom data-centric apps.

The APEX Advantage

It enables you to build scalable and secure AI-powered enterprise apps with world-class features.

Value Proposition

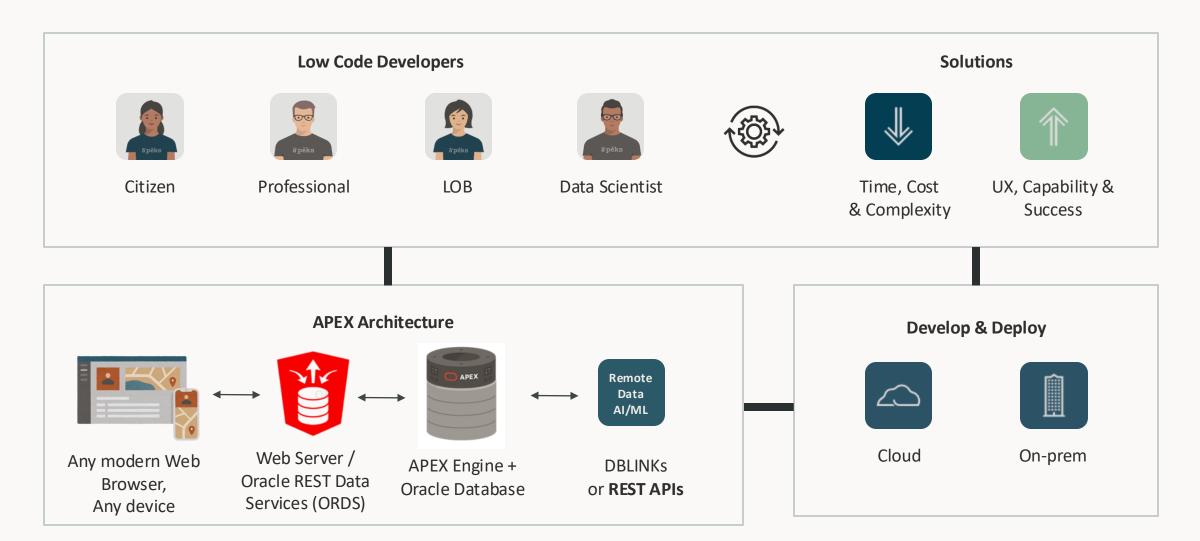
Build apps faster, with less code and minimal maintenance.

Mission

"to empower developers to easily build compelling apps with superior functionality, performance, and end user experience".

ORACLE APEX

Oracle APEX Low Code Application Platform





The APEX Platform

A comprehensive and unified low-code application platform

















Monitor





App Gallery

Data Loading



DevOps Tools

Build powerful cloud and mobile apps using a web browser

Import/export data

Publish **REST APIs**

Automate & Integrate processes and apps

A comprehensive and extensible low-code application platform

Object Storage

Generative Al

IAM

ODA

OAC

DocGen

API Gateway

OGL

SQLcI

SQL Developer



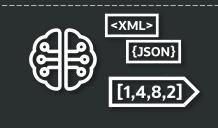
App Builder



RESTful Services



SQL Workshop

















Workflow



DevOps Tools



Team Development

<u>Partners</u>

Flows (BPMN)

AOP / AME

Project Eye

LCT

ApexSec

APEX-SERT

Jenkins

Jira

Git

Oracle APEX is Available Everywhere

Oracle Cloud

- APEX Service
- All workload types of Autonomous Database
- Oracle Base Database Service
- Oracle Exadata Cloud Service
- Always Free APEX Service
- Always Free Autonomous Database

On-Premises

- All Oracle editions
- Oracle Exadata
- Oracle Database Free

Other Clouds

- Autonomous Database on Azure
- Amazon RDS for Oracle Database
- All other major clouds via VM



Use Cases



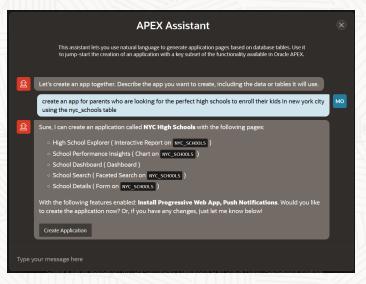
Al Features

Boost dev speed & create intelligent apps that deliver precise, relevant responses with Gen Dev!



Benefits

- Create Apps using Natural Language
- Create Custom Data Models
- Al-Assisted Development
 - Seamless configuration to consume Al Services
 - AI-Assisted SQL Authoring
 - Al-Assisted Debugging
- Provide RAG Data for AI Calls
- Conversational AI Dialogs
- Vector Search Support



Natural Language





Replace Spreadsheets to Web Apps in Minutes

Upload your spreadsheet and convert it into a cloud application with a few clicks!



Challenges

- Almost every organization utilizes spreadsheets to disseminate and report on data.
- Spreadsheets are so easy to create, easy to share, but lead to flawed business processes.
- No security control to update or delete information.



Solutions

- Single source-of-truth
- Send out a URL, not a file
- Secure, scalable, multi-user app
- Extend with Charts, Calendars, Validations, and more



Spreadsheet





Rapid Application Development

Build new business and productivity apps



Features

- Build apps in days/weeks not months/years
- Use powerful wizards to create fully featured apps
- Easily modify to meet changing requirements
- Rapidly iterate to a production-ready app
- Low-code capabilities allow non-IT professionals to also build or help build apps



- Opportunistic
- Simplistic, tactical apps to meet immediate need
- Webify paper processes
- Generally developed by one or two people





Modernizing Oracle Forms

Evolve your Forms Apps to APEX apps and unlock limitless possibilities!



Challenges

- Oracle Forms is Oracle's long-established technology for designing and building enterprise applications quickly and y and efficiently.
- Requires a license that increases development costs.
- · Lack of enterprise app development (AI Services, charts, workflow, REST Services).



- Proof-of-concept using the subset of Forms apps
- Organization-wide apps, rather than back-office
- External apps for customers/partners
- Mobile-first apps
- Net new requirements



Forms App

Learn more at apex.oracle.com



APEX Application



Extending Enterprise Systems

Enhance your existing apps by building APEX apps!



Challenges

- Extend ERPs and other enterprise software
- Provide organization-specific dashboards
- Improved workflows
- Fill gaps
- Create custom apps (Improve <u>retail</u> and <u>manufacturing</u> processes)

Solutions



- Meet non-standard requirements
- Working with MySQL, OData, Fusion Apps and Arbitrary REST Services
- REST Catalogs (Including Ones Automatically Created from OpenAPI)
- One Click Integration REST Data Synchronization
- Easily Blend Remote Data with Local Data



Existing Apps





Mission Critical Enterprise Systems

Quickly build custom mission-critical apps and scale to hundreds of thousands of users





Business Challenges

- Looking to improve its delivery processes, operational efficiencies, and data quality for its Project Delivery Center (PDC), which monitors clinical trials and helps drive success for customers.
- They also wanted to speed up the development and maintenance cycle times.

Results

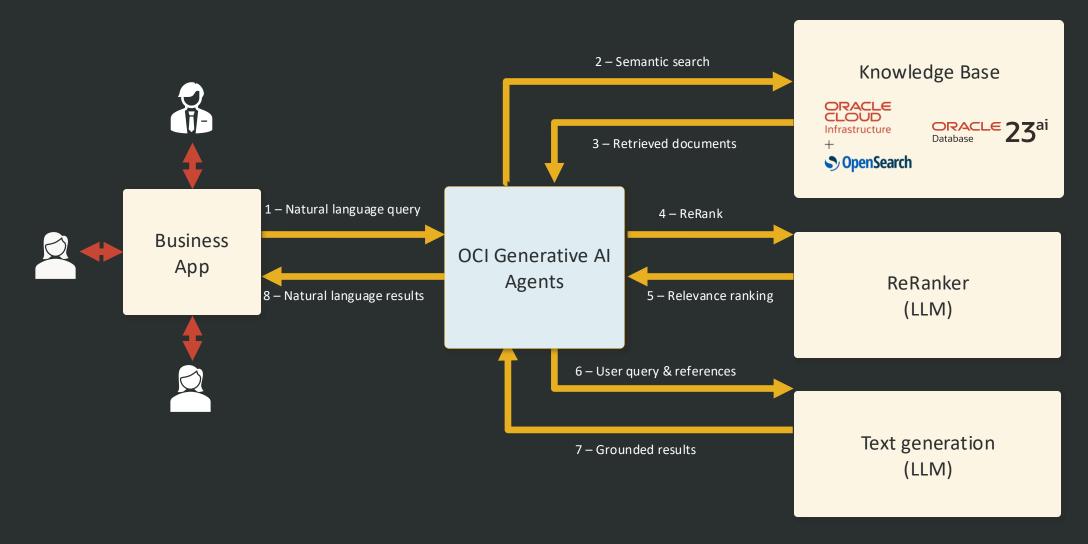
- By developing its own platform, Syneos Health could better monitor its deliveries, thus improving customer service.
- The PDC application can **scale** to thousands of users and projects for key clinical study monitoring information.
- Syneos Health saved significant costs over the course of five years, through more efficient operations and reduced application management effort.



OCI AI Features

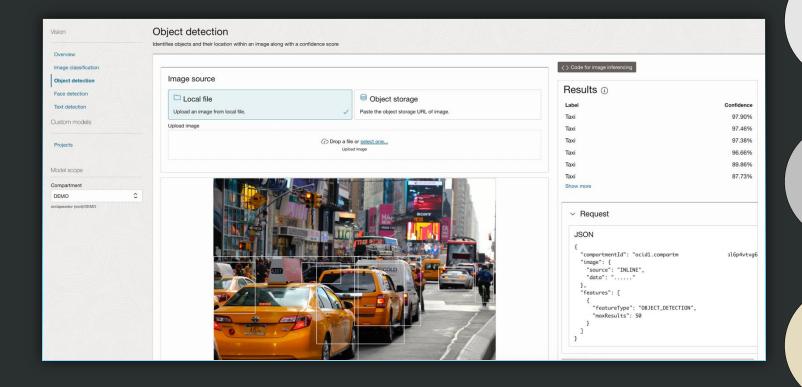


OCI Generative AI Agents





OCI Vision Service



Pre-trained and customizable computer vision models for image analysis

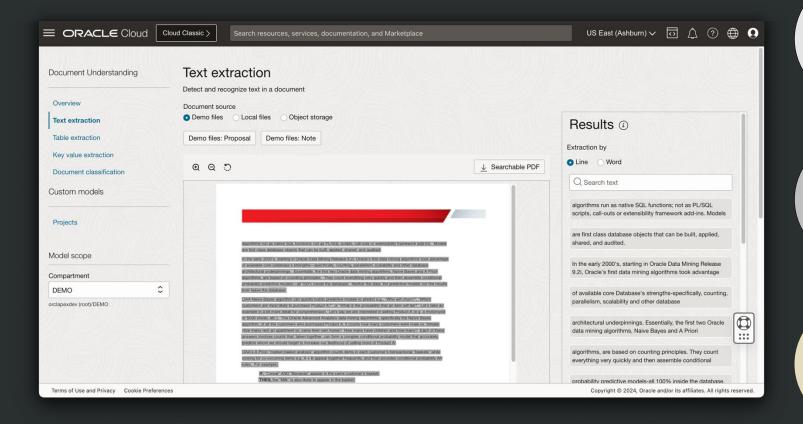
Fully managed model infrastructure

Complete integration with OCI Data Labeling simplifies building custom models

Lab: apex.oracle.com/go/oci-vision-lab



OCI Document Understanding



Upload documents to **detect and classify text and objects** in them.

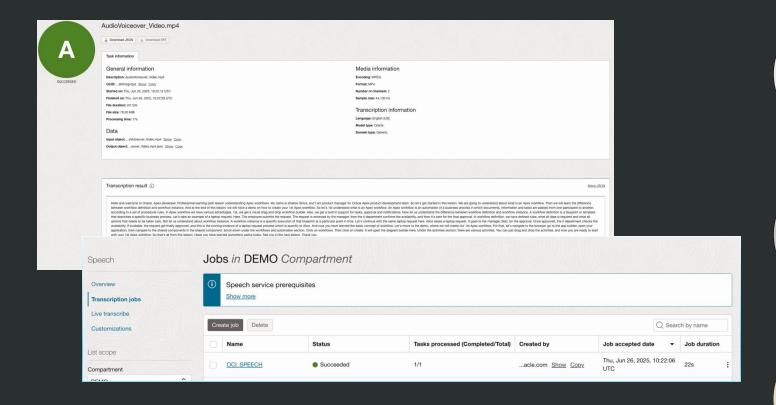
Serverless, multitenant service, accessible using the Console, REST APIs, SDK, or CLI.

Process individual files or batches of documents using the ProcessorJob API endpoint

Lab: apex.oracle.com/go/du-lab



OCI Speech

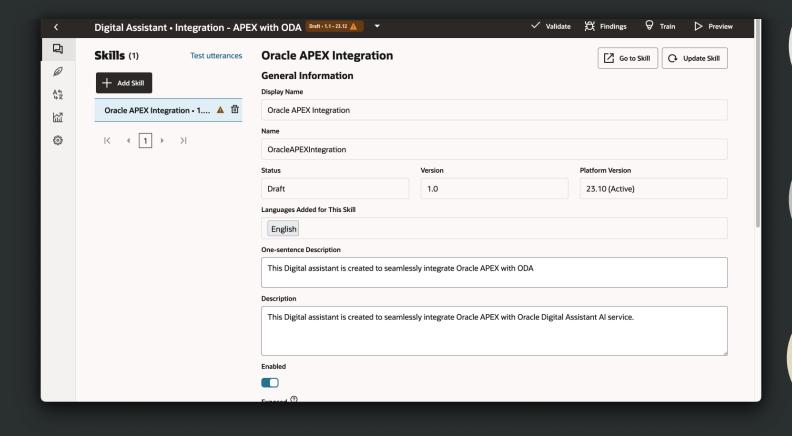


Prebuilt acoustic and language models

Analyze data from audio and video files

OCI Speech ASR transcribes audio in English, Spanish, Portuguese, German, French, Italian, and Hindi.

OCI Digital Assistant



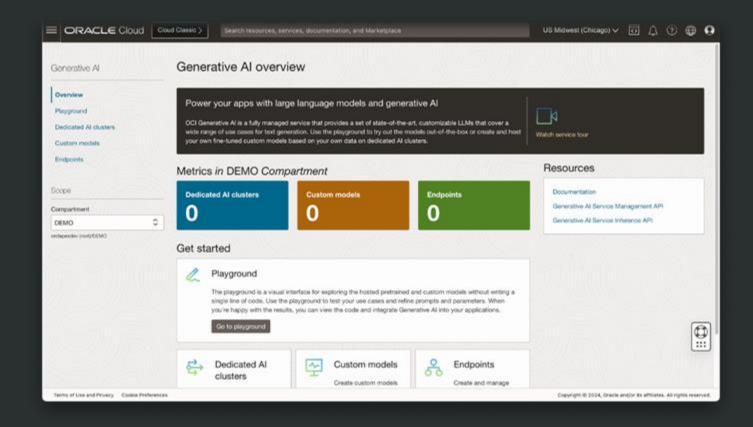
Comprehensive Al Platform to create conversational experiences

Advanced Natural Language
Understanding

Pre-Built Skills & Templates



OCI Generative Al



Fully managed Generative Al Service

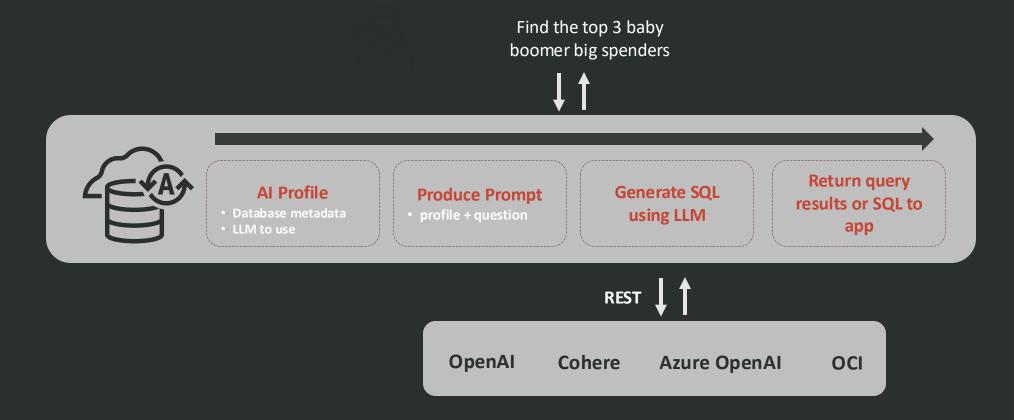
Enterprise-grade generative AI with data governance and security

Pretrained out-of-the-box LLMs

Lab: apex.oracle.com/go/nyc-genai



Select AI – validate text



- A feature of Autonomous Database
- Generates SQL Queries using Natural language

Use human language to query data



APEX & Gen AI

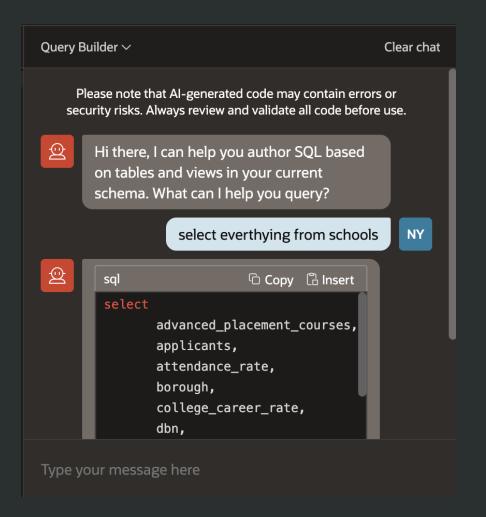
Use GenAl to create apps that meet business objectives quickly



APEX AI Assistant

Use Natural Language to:

- Create a Database Model
- Create an Application
- Write Queries in SQL Workshop
- Code editor in the application

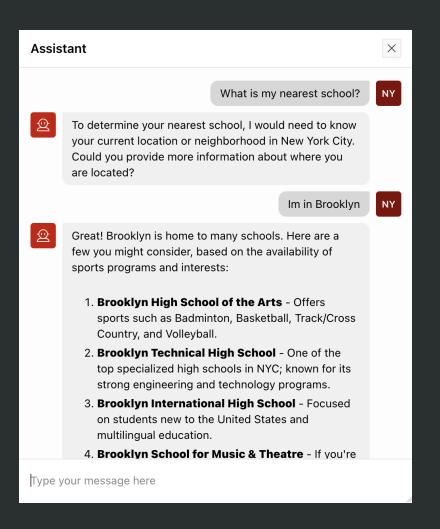




APEX AI Features

Create the following end-user components:

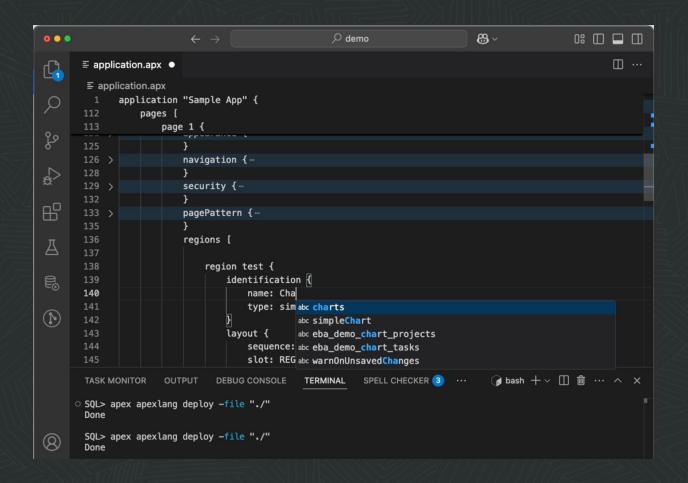
- Show Al Assistant (chat window)
- Generate Text with AI
- Al Vector Search
- Retrieval Augmented Generation





APEXIang

- Editable in VS Code
- CI/CD Pipelines
- Al Powered App Dev



New Value Proposition







Build intelligent enterprise apps you can trust.

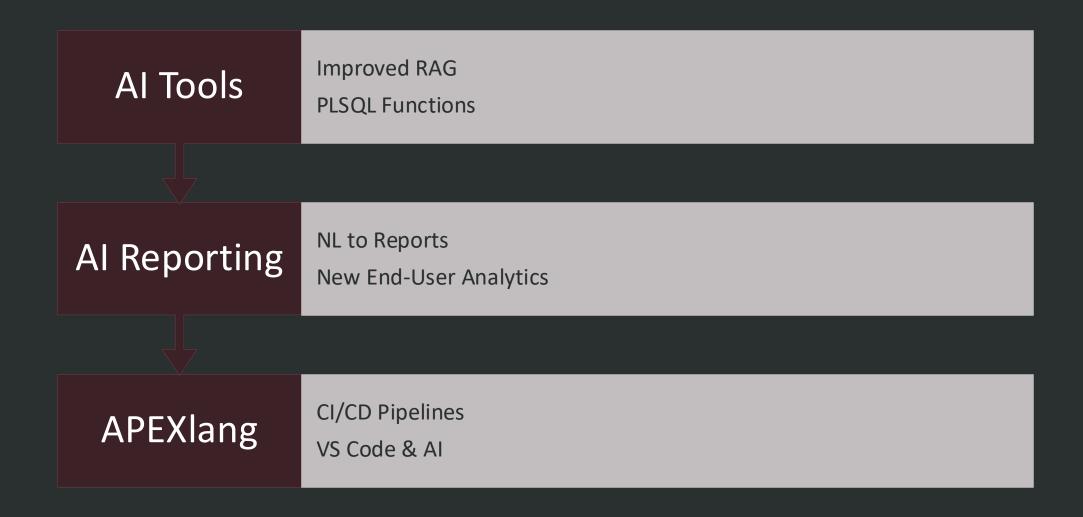
Oracle APEX is trusted worldwide to deliver mission-critical, data-driven apps that are secure, scalable, and easy to maintain.



APEX AI Differentiators

- Bring Your Own Al BYOAI
- Open Domain Specific Language (DSL)
- Meta-data not Code Generator
- In-database Architecture

Roadmap





Oracle APEX Training & Certification



Oracle APEX Professional Learning Path

- APEX Foundations apex.oracle.com/go/foundations
- Oracle APEX Developer Professional apex.oracle.com/go/professional
- Oracle APEX : Empowering Low-Code Apps with AI apex.oracle.com/go/ai-learn

#Oracle #LowCode #orclAPEX

Get Oracle APEX Certified!

- Showcase your skills in low-code application development
- Enhance your expertise in AI-powered low-code app development
- Open new career opportunities with Oracle APEX Cloud Developer Professional certification

apex.oracle.com/go/professional-ai-lp



APEX Key Takeaways



Free with the Oracle Database and also available as a service on OCI



Runs in the Oracle Database which delivers scalability, low cost, and performance



Responsive UI for desktop and mobile devices



Ideal for building data-driven apps and extending SaaS applications



APEX is Building Next-Gen AI-Powered Apps



To learn more and try APEX yourself



Start for Free Today

apex.oracle.com/go/free/



Tutorials

apex.oracle.com/hols



Visit Our Information Portal

apex.oracle.com

Try the "Build an Innovative Q&A Interface Powered by Generative AI" Live Lab to explore key capabilities of APEX Next-Gen AI-Powered Apps





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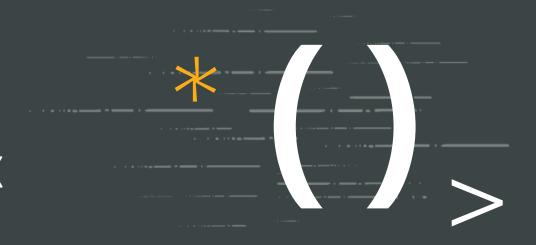




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Retours d'expérience clients APEX Animé par SQORUS









#Oracle APEX

#Oracle Cloud Infrastructure, OIC, OAC

#Oracle HCM Cloud, ERP Cloud, EPM Cloud

#Innovation

#Numérique Responsable

#Engagement



Cabinet en transformation des fonctions

RH, Finance, EPM & IT

Expert Oracle depuis plus de 25 ans Joffrey Chu – Directeur Division IT jchu@sqorus.com Oracle APEX Day Parus – 24/09/2025







Comment Oracle APEX modernise et améliore le pilotage des équipes dans le domaine des transports?

Retours clients de la SNCF et de Onet Airport Services

Oracle APEX Day

Nos intervenants







Claude SIROIS

Responsable département Etudes,

Projets et Conseil ERP Groupe SNCF

Adrien LAPLANCHE Ingénieur Méthode

Aurélien DINH Sénior Manager Digital

ERP PEOPLESOFT DU GROUPE SNCF

Quelques chiffres



Une instance commune, Peoplesoft FSCM 9.2, pour les 5 SA du Groupe Public SNCF





+ 13 périmètres fonctionnels au sein d'un même outil : comptabilité, achats, logistique, ...

ORACLE!

- + 25 000 utilisateurs internes et des milliers de fournisseurs
- + Plus de 100 000 traitements lancés quotidiennement







- + Hébergée dans le Cloud Oracle (OCI)
- + Bases de données Oracle sur Quarter Rack EXADATA X9-M



√ +20 ans d'historique et 15 To pour la base de données de Production



CONTEXTE

Cycle de vie des mises à jour de l'ERP

Diverses opérations de maintenance



+ Technique (mensuel)



+ Applicative (mensuel)



+ Evolutive (semestriel)



+ Modèle de Gestion (annuel)

De nombreuses tâches et intervenants à coordonner

- + Jusqu'à plusieurs centaines d'actions
- + Jusqu'à plusieurs dizaines d'intervenants



Liste de tâches							
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PILOTAGE DES OPÉRATIONS



Outil de pilotage

Solution historique

- + Un bon vieux fichier Excel
- + Difficile à maintenir
- + De nombreuses macros complexes
- ## B C D R S T U V W X Y Z AA AB AC AD AE AF AG AH

 ### CONTRACTOR | C
- + A la main exclusive des équipes de pilotage
- + Des centaines de mails pour suivre l'avancement des tâches (affectée, prise en compte, terminée, ...)
- + Communication générale et documentation des incidents hors outil







Outil de pilotage

Nouvelle solution

- + Application APEX
- + Solution interactive accessible par les pilotes et les intervenants
- + Des mails ciblés pour notifier les intervenants concernés par une tâche
- + Communication générale et documentation des incidents intégrées dans l'outil



Oracle APEX in









Merci de votre attention









APEX Day in Paris







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En collaboration avec



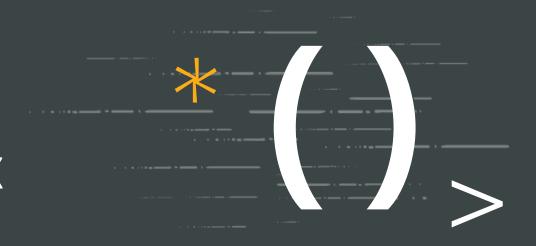




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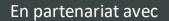
Retours d'expérience clients APEX Animé par TALAN











Oracle APEX Day in Paris

24/09/2025



Qui sont nos intervenants?



Édith Poirier

COO



Damien Leveugle

Business Unit Manager



Mohamed Elmachtani Idrissi

Responsible du pôle Études



Arnaud Buil

Responsable développement et support



Pierre-Louis Giros

CPO











TALAN CENTRE D'EXCELLENCE ORACLE TECHNOLOGIES

ORACLE CLOUD, ORACLE APEX



ON-PREMISE

Optimisation et adoption des solutions Oracle



EXPÉRIENCE +20 années

Leadership dans Oracle APEX et OCI



ENGAGEMENT COMMUNAUTÉ 10 Oracle ACEs

Oracle ACEs/Oracle ACE Director



CERTIFICATIONS

+36 collaborateurs certifiés

Excellence technique et formation continue



ORACLE APEX

Développement & Modernisation Oracle Forms



IA & MACHINE LEARNING

Oracle Al Services, GenAl, AutoML, Vector Search & GPU



E-BUSINESS SUITE

Extension avec Oracle APEX



ORACLE CLOUD

Migration: BD Oracle, VM, Apps, OCVS Multicloud: Oracle@Azure/AWS/GCP

Autre: Analytics Cloud, etc



OPTIMISATION & AUDIT

Automatisation, audit sécurité, mises à jour & PRA



SERVICE MANAGÉ 24/7

Oracle Cloud Infrastructure



Partner







APEX Day in Paris







En partenariat avec





En collaboration avec







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APEX Day in Paris

Conclusion de la matinée



Mónica GodoySenior Principal Product Manager for Oracle APEX, Oracle Corporation



Patrick Le Martret
Technology Marketing Director, Oracle











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Primary site



apex.oracle.com

Get Started



apex.oracle.com/go/free

APEX Shortcuts



apex.oracle.com/shortcuts

APEX on Autonomous



apex.oracle.com/autonomous

Oracle
APEX + AI



apex.oracle.com/go/ai

APEX Training



apex.oracle.com/go/training

Oracle University APEX Certification







Key Takeaways

- Free with the Oracle Database and also available as a service on OCI
- Runs in the Oracle Database which delivers scalability, low cost, and performance
- Responsive UI for desktop and mobile devices
- APEX provides compelling solutions for a variety of use cases
- APEX is Building Next-Gen AI-Powered Apps

ORACLE

Agenda | APEX Day in Paris

Après-midi













APEX Day in Paris

Reprise à 13h30

En partenariat avec







Retrouvez l'AUFO pendant le cocktail déjeunatoire





APEX Day in Paris







En partenariat avec





En collaboration avec



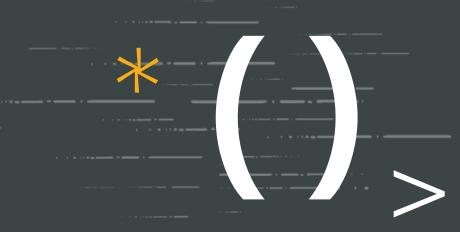




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APEX Day in Paris

Getting Started with GenDev in APEX®





Mónica GodoySenior Principal Product Manager for Oracle APEX, Oracle Corporation









Getting Started with GenDev in APEX

Monica Godoy

Senior Principal Product Manager Monica.godoy@oracle.com



First Question

Where is Oracle APEX available?

- a) Oracle Cloud,
- b) On-Premises,
- c) Everywhere you have an Oracle Database

Second Question

For which use case is APEX a good fit?

- a) Modernization from Oracle Forms
- b) Build SaaS applications
- c) Customize Oracle ERP (E-Business Suite and Fusion Cloud)
- d) All of the above

Agenda

- Basic Concepts: Prompt, GenAI, LLM, GenDev
- Prerrequisites
- Al Capabilities in Oracle APEX
- Resources
- Summary

What is a Prompt?

- Instructions or questions you give to a generative AI model.
- Good prompts are clear, specific, and context-rich, enabling the AI to generate more relevant and useful results.

"Write a short story about a magical cat on one street of Paris."

"Translate the following text to French: The sun is shining today"



What is Generative AI?

- Requires minimal human input to create new content.
- How it works?
 - Training
 - Learning
 - Generation



Content creation

Entity Extraction

Copyediting (grammar, style)

Chat Interface (Q&A)

Semantic Search

Summarization

Toxicity detection

Sentiment analysis

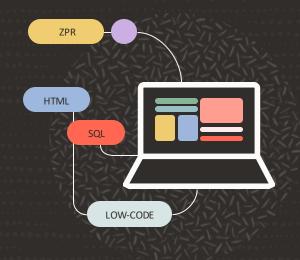
GenDev

Infrastructure that facilitates AI development



Independent, Evolvable, Trusted

Oracle
Database 23ai



Declarative, Understandable, Editable

Oracle APEX
Oracle SQL Developer



Automated,
Mission Critical Platform

Oracle
Autonomous Database





GenDev in Oracle APEX

What do You Need?

Oracle APEX 24.1 – June 2024

Brings Gen AI to Developers!

Oracle APEX 24.2 – January 2025

Unlocks GenDev with new AI capabilities!

- Requires an Oracle Database release 19c or later.
- Available on Oracle Cloud, On-Premises, or any other Cloud
- Access to a Generative Al Service. Choose between:
 - OCI Generative Al Service
 - Open Al
 - Cohere

apex.oracle.com/download



GenDev in Oracle APEX

- Oracle APEX Service
- Oracle Autonomous Database
- apex.oracle.com (Evaluation purposes)



Ready to go!

- Oracle Database Cloud Service (Oracle Cloud)
- Oracle Exadata Cloud Service (Oracle Cloud)
- On-Premises



Configure:

- ACL
- Web Proxy
- Wallet

Learn more:

apex.oracle.com/go/configure-acl







Third Question

Which versions of Oracle APEX support GenDev?

- a) Oracle APEX 24.1
- b) Oracle APEX 24.2
- c) Both, Oracle APEX 24.1 and Oracle APEX 24.2

The Basic AI Capabilities





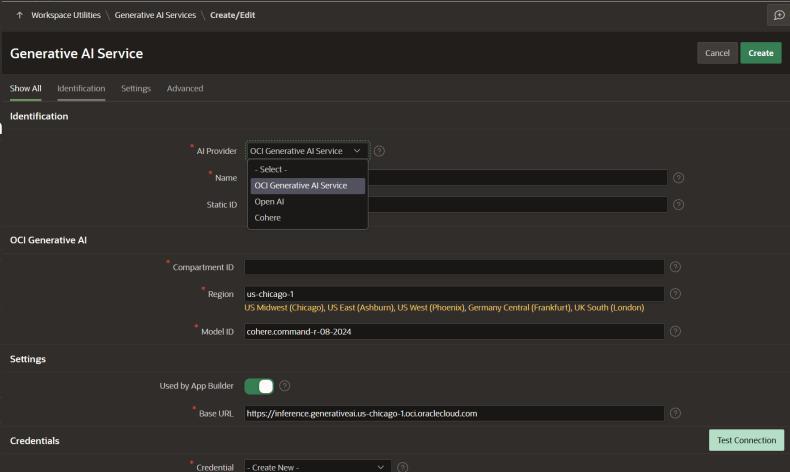
1. Configure your Gen Al Service

Abstracts to popular commercial **Generative Al products**

Authenticates using **Web Credentials** in Oracle APEX

Used by App Builder, Al Assistant & APEX_Al PL/SQL API

Can be enabled/disabled on APEX **Instance** and **Workspace** levels

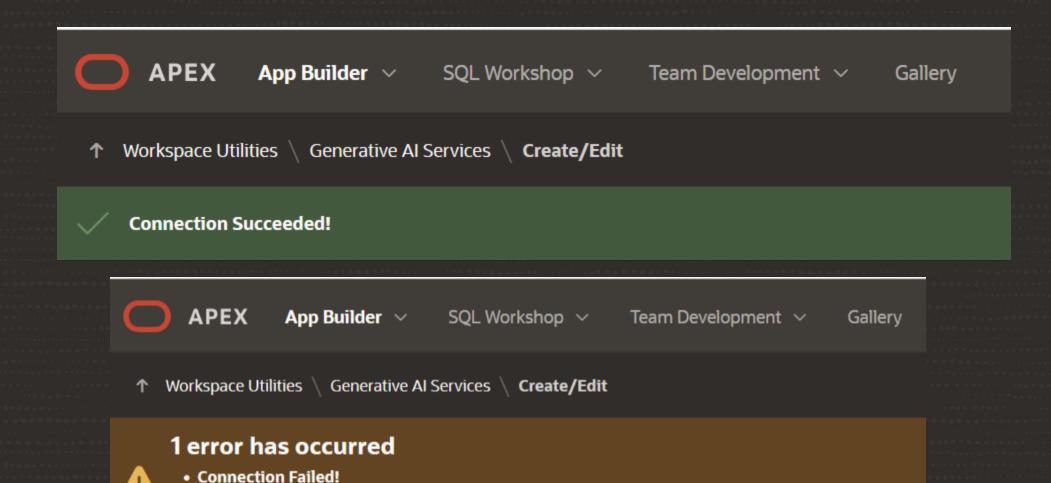




2. Test your Gen Al Service

Test Connection





401: The required information to complete authentication was not provided or was incorrect.

Please review the following error message that was returned:

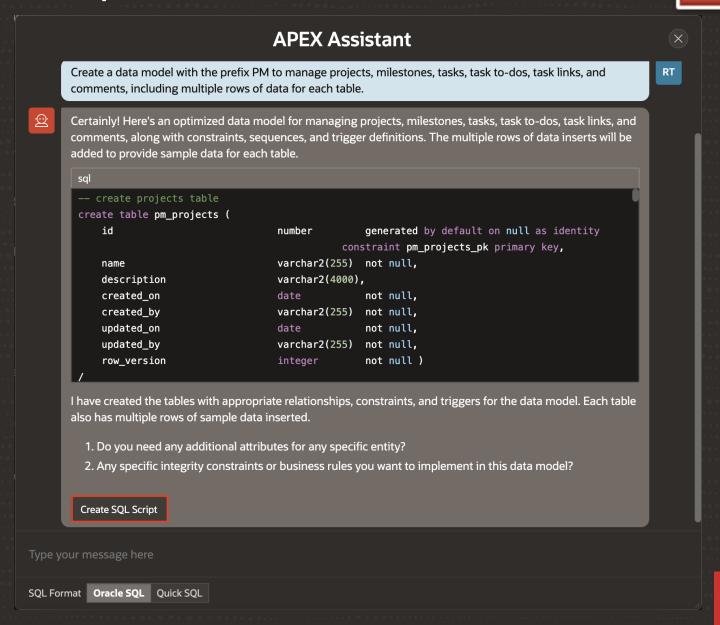


3. Create a Data Model from a Prompt

Create your **new data model** from a **Prompt**

Generate scripts either in Oracle **SQL** or **Quick SQL** format

Build a **Data Model** and generate Sample Data



4. Create Apps



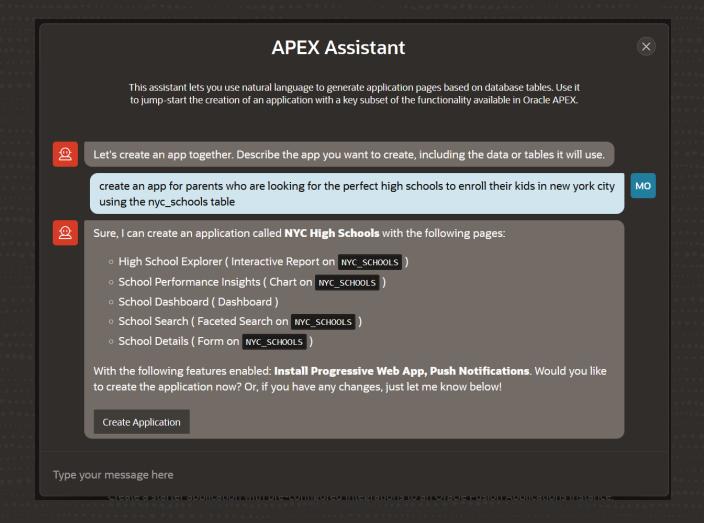
Generate **Application Blueprint** based on a Prompt

Leverages **APEX Dictionary Cache** to identify relevant tables

Further, enhance the generated blueprint with additional instructions



Create App Using Generative AI Enter a natural language prompt to create your application.





Create Apps - Troubleshooting

APEX Assistant

This assistant lets you use natural language to generate application pages based on database tables. Use it to jump-start the creation of an application with a key subset of the functionality available in Oracle APEX.

Refresh the **APEX Dictionary** Cache.

SQL Workshop > Utilities > Data Dictionary Cache

Let's create an app together. Describe the app you want to create, including the data or tables it will use.

create an app for parents who are looking for the perfect high schools to enroll their kids in new york city MO

I'm sorry, I couldn't process that. Could you please rephrase your question?

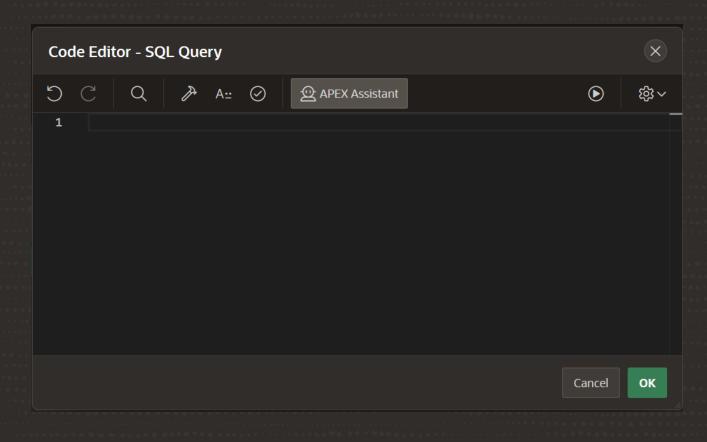


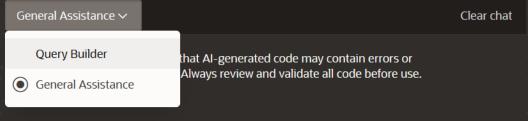
More AI Capabilities?



APEX Assistant for Code Editor





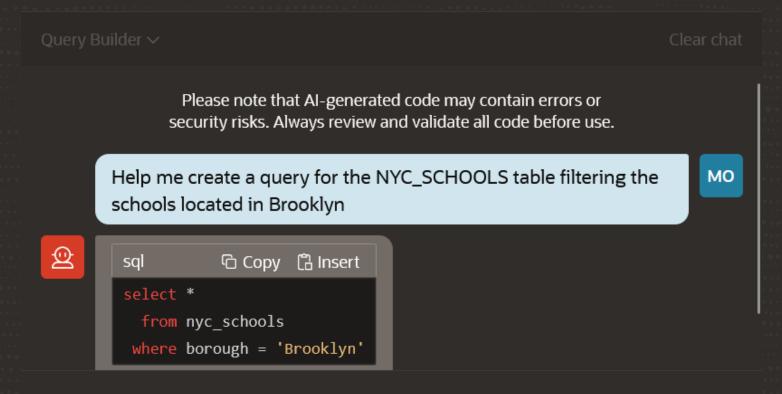




Code Editor



Generate SQL Queries for any region using the Query Builder mode.



Type your message here



Code Editor

Generate PL/SQL, JavaScript, HTML, and CSS Code using the General Assistance mode.

General Assistance >

Clear chat

Please note that AI-generated code may contain errors or security risks. Always review and validate all code before use.

please help create a PL/SQL function that returns a CLOB that contains information about the NYC_SCHOOLS

МО

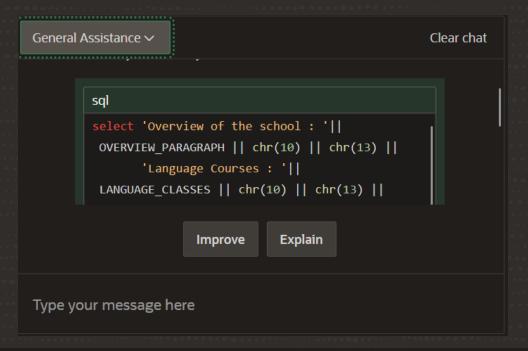


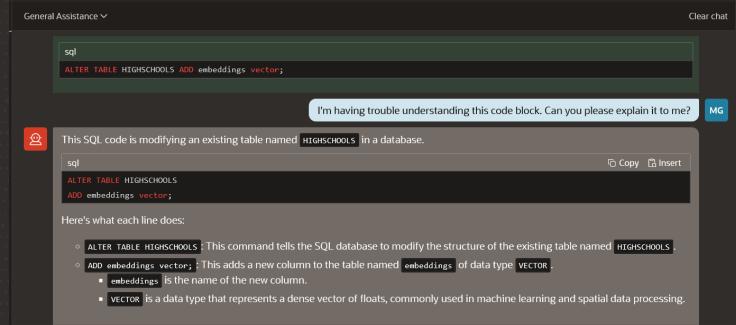
Type your message here



Code Editor

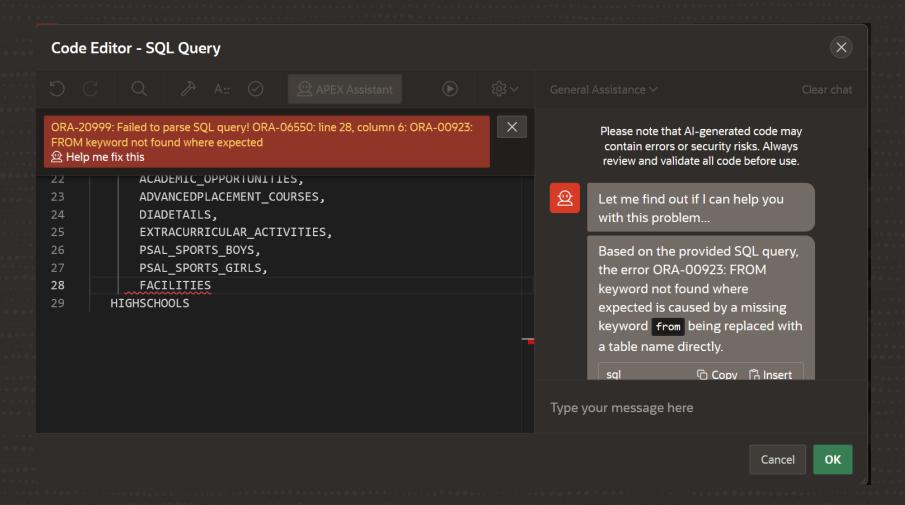
Improve & Explain Quick Actions help improve and understand the selected code







Code Editor – Assistance to fix your code





AI Chat User Interface

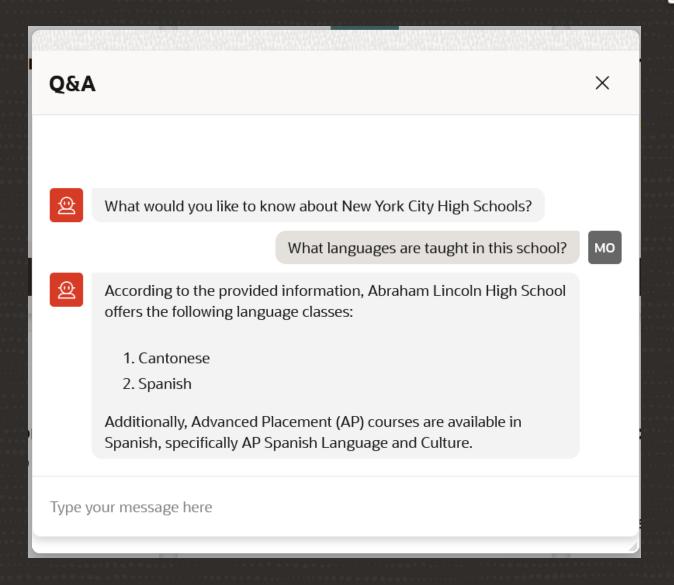


A Native Dynamic Action

Leverages **Generative Al Services** configured under Workspace Utilities

Rendered Inline or as a Dialog

Configurable **System Prompt** and **Welcome Message**







Go ahead and ask your questions about the first APEX Day in Paris.

When the APEX Day in Paris conference will take place?





The Oracle APEX Day in Paris conference is scheduled to take place on November 14, 2023, at the Oracle France office in Colombes, near Paris. For the latest updates or future editions, please check the official Oracle APEX community website.





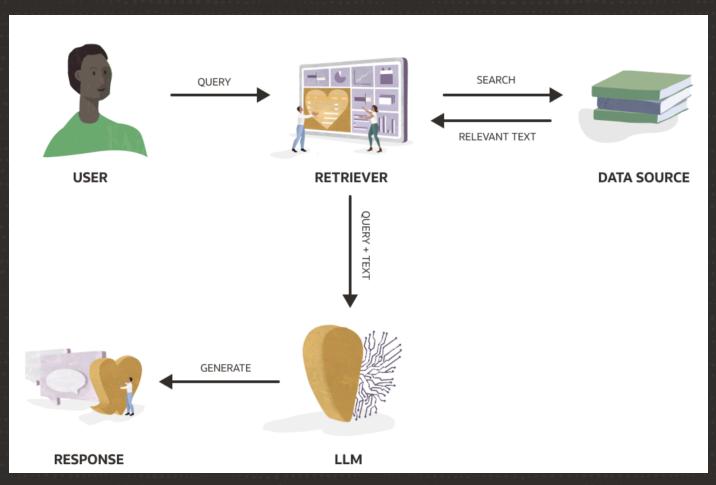
What Is Retrieval-Augmented Generation (RAG)?

RAG provides a way to optimize the output of an LLM with targeted information without modifying the underlying model itself.

Cost-effective

Access to up-to-date information

Domain-Specific Knowledge



Al Configurations

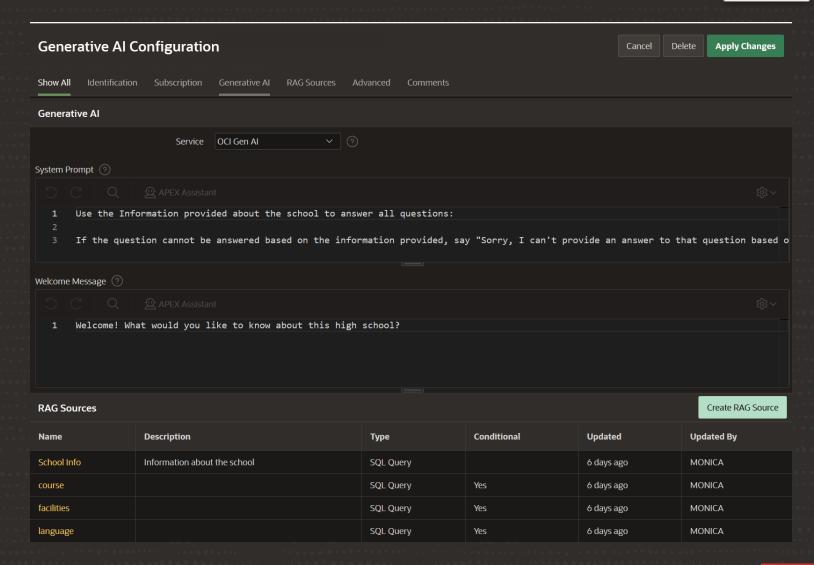


Al Configurations centralize key
Generative Al settings.

Customizable System Prompt,
Welcome Message, and RAG
Sources.

Use it in both the **Show AI Assistant** and **Generate Text with AI** Dynamic Actions

APEX_AI PL/SQL API





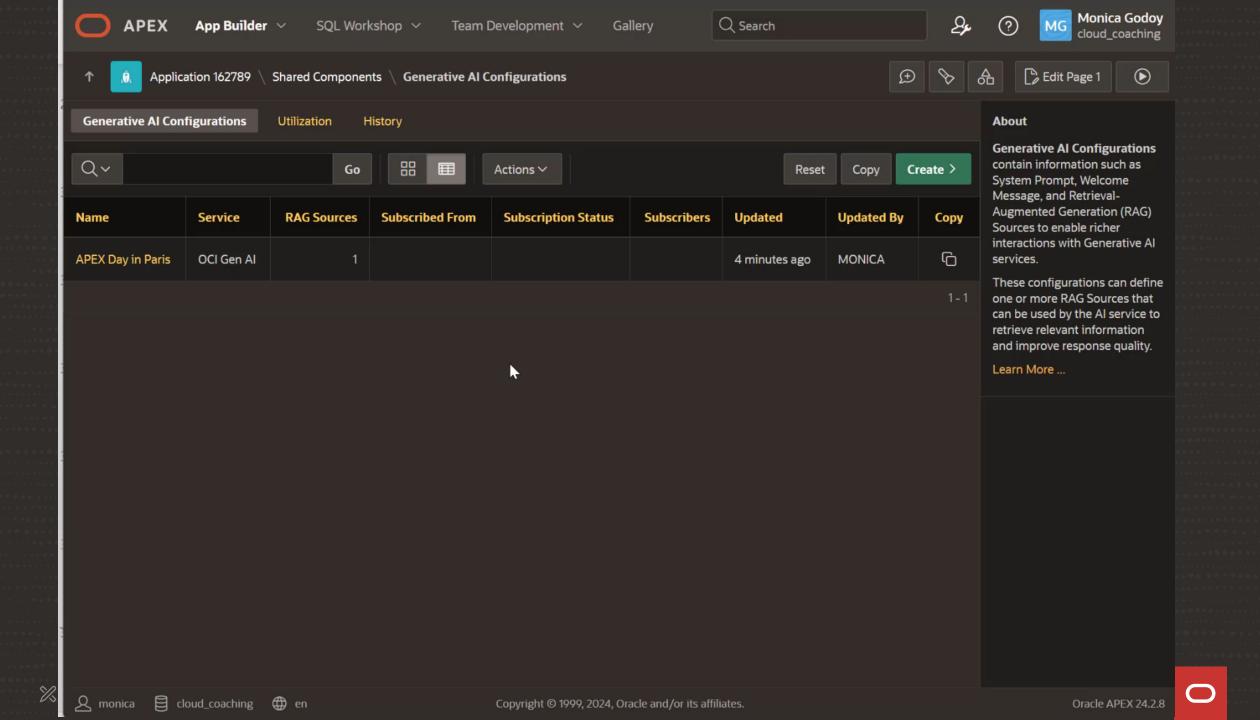
RAG Source

Show All Identification Description Source Advanced Server-Side Condition Security Configuration Comments

Source

```
SQL Query
                                 SQL Query
SQL Query ?
                                 Function Body
                                Static
     select 'Overview of the school : '|| OVERVIEW PARAGRAPH || chr(10) || chr(13) ||
             'Language Courses : '|| LANGUAGE CLASSES || chr(10) || chr(13) ||
             'Advanced Placement Courses : '| ADVANCED PLACEMENT COURSES | chr(10) | chr(13) |
             'Diversity in Admission Policy : '|| ADDTL INFO1 || chr(10) || chr(13) ||
             'Extra curricular activities : '|| EXTRACURRICULAR ACTIVITIES || chr(10) || chr(13) ||
             'Public Schools Athletic League (PSAL) sports for boys : '|| PSAL SPORTS BOYS || chr(10) || chr(13) ||
            'Public Schools Athletic League (PSAL) sports for girls : '|| PSAL SPORTS GIRLS || chr(10) || chr(13) ||
            'Facilities : '|| SCHOOL_SPORTS || chr(10) || chr(13) ||
             'Academic opportunities : '|| ACADEMIC_OPPORTUNITIES || chr(10) || chr(13) ||
             'Attendance rate : '|| ATTENDANCE_RATE || chr(10) || chr(13) ||
10
             'Graduation rate : '|| GRADUATION RATE
11
12
     as prompt context
13
       from nyc_schools
      where id = :p6 id
```







Fourth Question

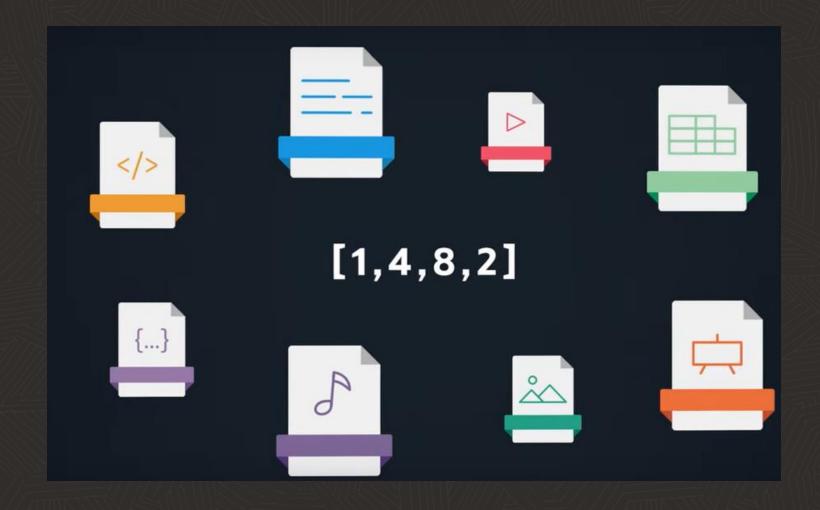
What's the purpose of using RAG Sources in APEX?

- a) Optimize the output of an LLM by modifying the model on the fly
- b) Optimize the output of an LLM without modifying the model itself and with targeted information
- c) Increase the complexity of the AI Chatbots creation

Advanced

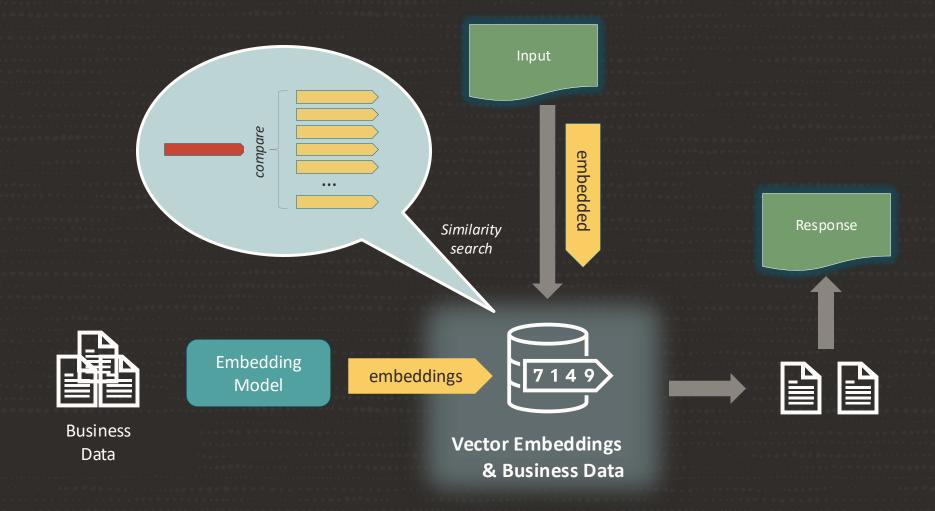


What is a Vector?



Al Vector Search

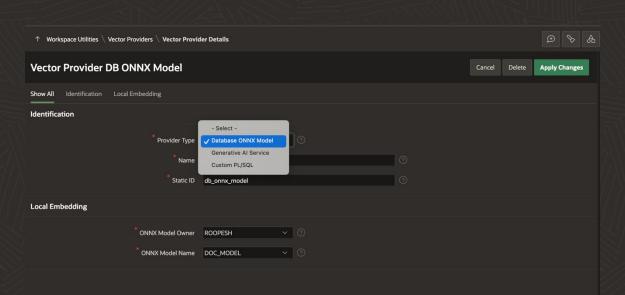
Search across your unstructured data





APEX **24.2**

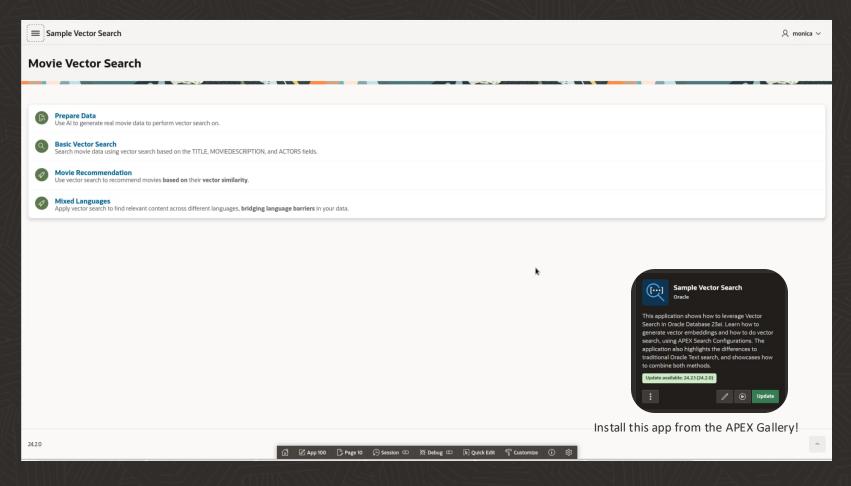
What are Vector Providers?



- A Vector Provider enables you to convert text into an embedding
- Available Provider Types: Database ONNX Model,
 Generative Al Service, Custom PL/SQL
- Vector Providers are stored at the Workspace
 level
- Use APEX_AI.GET_VECTOR_EMBEDDINGS PL/SQL
 API to generate embeddings



Vector Search Support in Search Configurations - Overview



Available exclusively on **Oracle Database 23ai**

Create **Search Configurations** on the table with Vector Data type columns

Results are returned based on Vector Similarity



APEX **24.2**

JSON Data Sources

Work directly with JSON data in your APEX apps!

Create JSON Sources

- From a table with JSON in CLOB/BLOB columns (19c), or
- In Oracle Database 23ai using
 - Duality Views,
 - JSON Collection Tables,
 - JSON Collection Views.

```
TEAM_DV
                   Errors
                          Grants
                                  Dependencies
               ্টি Save and Compile
                                   C Refresh
                  APEX Assistant
  CREATE OR REPLACE FORCE EDITIONABLE JSON RELATIONAL DUALITY VIEW "TEAM DV" AS
  SELECT JSON {' id' IS t.team id,
             'points' IS t.points,
             'driver' IS
                  [ SELECT JSON {'driverId' IS d.driver id,
                                            IS d.name,
                                  'points'
                                            IS d.points WITH NOCHECK}
                     FROM driver d WITH INSERT UPDATE
                     WHERE d.team id = t.team id ]}
    FROM team t WITH INSERT UPDATE DELETE;
```



Resources

- Lab: Innovative Q&A Interface Powered by Generative Al apex.oracle.com/go/nyc-genai
- Office Hours: What's New in Oracle APEX 24.2 apex.oracle.com/go/playlist-242
- Oracle APEX Blog: apex.oracle.com/blog
- Demo Apps for JSON Sources:
 - apex.oracle.com/go/json-app-23ai
 - apex.oracle.com/go/json-app-19c





Become an Oracle APEX Pro: The Latest Learning Path You Need to Follow

Claim your Free Certification until October 31, 2025

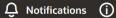


apex.oracle.com/go/professional-ai-lp



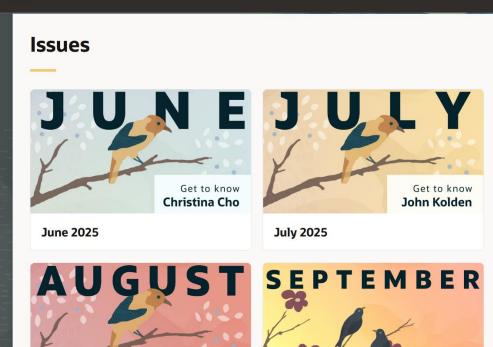
Oracle APEX Newsletter apex.oracle.com/go/newsletter





Carlos Maciel





September 2025

Get to know

Sonali Inamdar

September 2025						Month	List
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
31	1	2	Webinar: APEX Security Basics United Codes, Livel 9:00 AM - 10:00 AM % English	4	5		6
7	8	Webinar: What Is APEX OPEN_QUERY_CONTEXT, and Why, When and Where Do You Care? 11:00 AM - 12:00 PM % English	Webinar: Practical Al in PL/ SQL Made Easy United Codes, Livel 900AM - 1000 0M % English Webinar: Five steps to implement image semantic search in Oracle APEX 1100 AM - 1200 PM % English	11. Office Hours: Al at Work in Oracle APEX: Real Projects, Real Results 12:00 PM - 12:45 PM 军 English	12		13
14	15	16 Conference: German Low-Code 800 AM - 600 PM % English	Day 2025 Webinar: AUSOUG APEX SERIES 2025: RESTing on your Legacy? (Brad Cardinal) 800 AM - 9000 AM \$5. English	18 Webinar: DevTalk: Oracle APEX & AI 500PM-600PM 泵 German	19		20
21	(22)	Diffice Hours: Gestionarea processior de business cu APEX Workflow 8:00 AM - 9:00 AM - 5:00 AM -	24 Conference: Oracle APEX Day in Paris 9:30 AM - 5:00 PM TA English	Office Hours: What's New in Flows for APEX v25.1—Smarter BPMN Workflows with AI, Suspend & Rewind 1000 AM - 11000 AM - 1	26		27

August 2025



Fifth Question

The APEX certification is available for Free until?

- a) November 1st
- b) October 31st
- c) December 1st

Summary



Oracle APEX

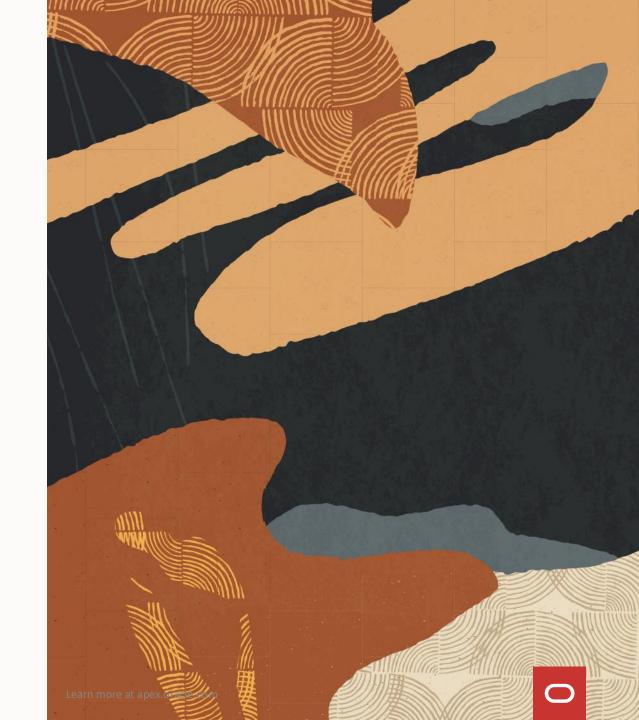
Summary

- Oracle APEX is a strategic platform for the generative development of enterprise apps.
- Everyone can collaborate to quickly describe, iterate, and deliver sophisticated, data-centric enterprise solutions with AI assistance.
- Using both natural language and declarative builders, you capture the intent of your business solutions and the data they require, staying focused on the **WHAT** instead of the **HOW**.

Thank You

Monica Godoy

Senior Principal Product Manager Monica.godoy@oracle.com





APEX Day in Paris













En collaboration avec



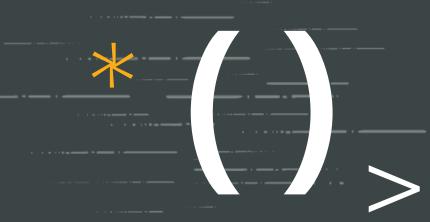




ORACLE

APEX Day in Paris

What's new and what's next in Oracle APEX?





Marc Sewtz
Senior Director, Software Development, Oracle Corporation















Marc Sewtz
Senior Director of Software Development
Oracle APEX

1998	Oracle Consulting in Hamburg
1998 – 2000	Bertelsmann Books Online (BOL) in New York City
1999 – 2002	Oracle Consulting in the US
2000 – 2001	City of Chicago -Web Bid & Compliance
2001 – 2002	Chicago Police Department - Forms Migration
2002 - today	Oracle APEX Development Team, New York City

marc.sewtz@oracle.com www.linkedin.com/in/msewtz



Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.



Agenda





Generative AI in Oracle APEX

Al Assisted Application Generation

- Transforming every phase of application development
- Extends beyond coding: debugging, testing, learning, and more
- Empowers developers through natural language interfaces
- Rapidly evolving landscape of LLMs
- Flexible deployment: private self-hosted or public cloud-based solutions

Al Enhanced Applications

- Natural language interfaces for intuitive user experiences
- Conversational and context-aware interactions
- Automated data summarization and actionable insights
- Seamless integration of private data with LLM knowledge
- Dynamic generation of charts and visualizations



AI Assisted Application Generation

AI Assisted Application Generation

- Conversational generation use natural language to describe your app and have it generated
- Abstracted by design APEX's model-driven architecture captures intent as metadata, not low-level code
- Al-assisted refinement accelerate development through iterative guidance



Create Custom Data Models

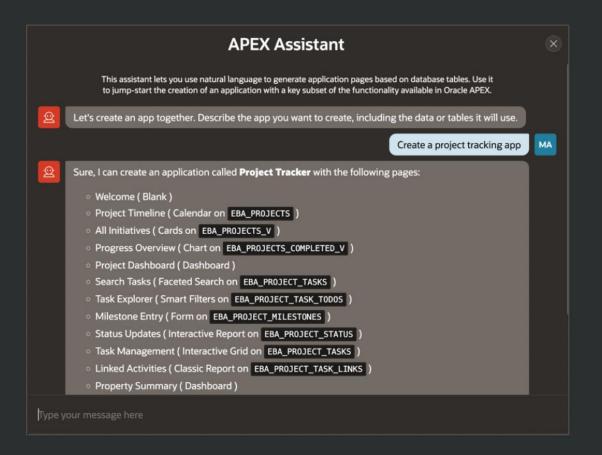
- Create your own schemas from a prompt
- Generate scripts either in Oracle SQL or Quick SQL format
- Build a Data Model and generate Sample Data





Create Apps using Natural Language

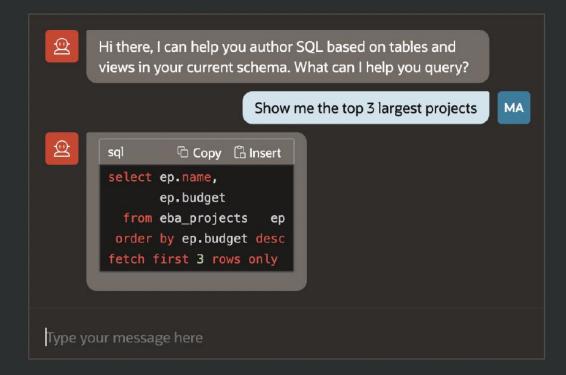
- Describe the pages, data, and features you want, and the APEX AI Assistant will generate a tailored application blueprint to get you started.
- Refine the application using the full Create App wizard or instantly generate the app to begin working right away.





Al-Assisted SQL Authoring

- APEX AI Assistant helps you author SQL queries over your application data model by understanding a natural language description of what data you want to retrieve.
- Augment existing queries by explaining the additional information to include.
- Frees you from having to lookup exact database table and column names or precise SQL syntax to achieve a result.





Create page from natural language



- Natural Language Page Creation: Allows developers to create new pages
 using natural language prompts, extending the experience introduced in the
 Create App wizard.
- Al-Assisted Page Suggestions: The APEX Assistant suggests page types, names, and associated tables based on the user's natural language input.
- Integrated in Create Page Wizard: When AI is enabled, the APEX Assistant tab becomes available, enabling quick page generation or iterative refinement directly from the wizard.



Demo: Al Assisted Application Generation

AI Enhanced Applications

AI-Powered Apps

Natural language reporting & insights – APEX not only generates secure reports, but it also adapts existing ones with filters, formatting, and visualizations through natural language.

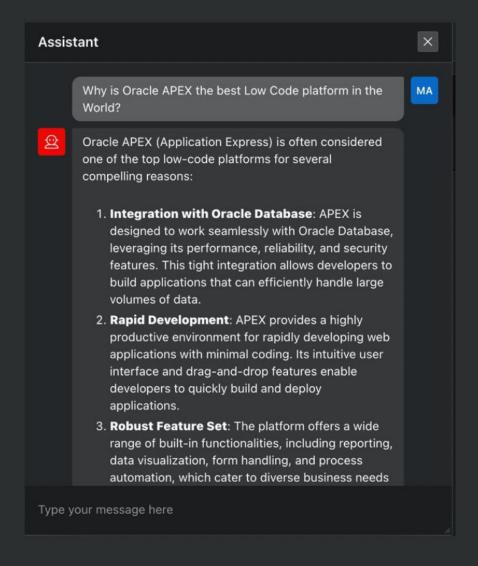
Native agentic capabilities – apps can be extended to take action, automate workflows, and orchestrate tasks.

Driven by metadata & SQL – ensuring insights are accurate, secure, and sourced from your database.



Conversational AI Dialogs

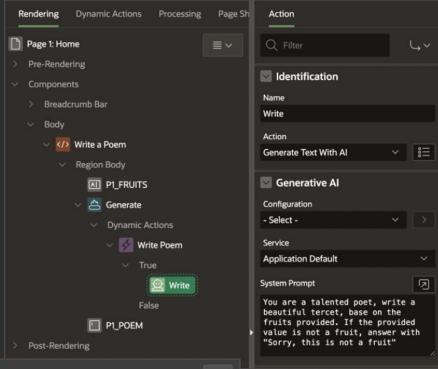
- Easily configure Al-powered conversational experiences using a new dedicated Dynamic Action.
- Provide the system prompt, welcome message via Al Configuration.
- Customize the appearance, choosing whether to display the AI assistant within a modal dialog or inline directly on your page.

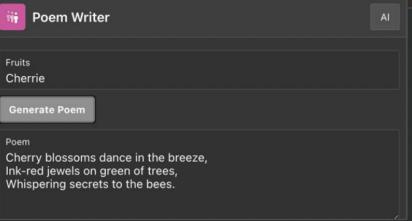




Generate Text with Al

- New Dynamic Action "Generate Text with AI"
- Leverages Generative Al services
- Generate a one-time response based on user content
- Configurable System Prompt, Input Value, and Use Response attributes

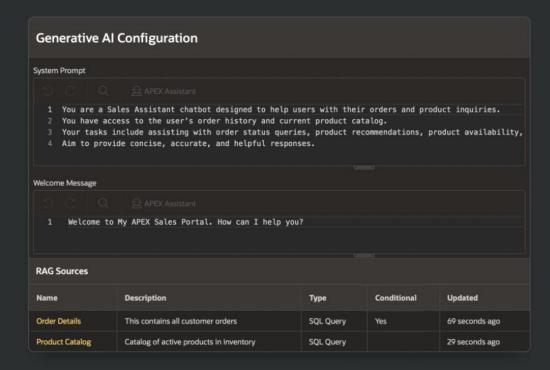






Retrieval-Augmented Generation (RAG)

- Improve AI Assistant responses by including additional context from SQL queries, function outputs, or static text.
- RAG sources can be conditional and are dynamically re-evaluated with each user prompt, ensuring accurate and up-to-date replies.
- A new shared component for AI Configurations
 bundles the system prompt, welcome message, and
 any number of RAG sources into a reusable setup.





Generative AI Tools



- Leading Al providers now support a feature called Function Calling (or Tools), enabling LLMs to request specific information using structured JSON functions.
- Instead of sending excessive details up front, we provide a list of supported functions with parameters, allowing the model to fetch only what's needed.
- This improves accuracy, reduces unnecessary data transfer, and makes responses more efficient.

Generative AI Tools



Use Cases

- Request metadata for a specific database table, such as column names, data types, or foreign key relationships
- Retrieve information about particular products or customers
- Query real-time updates from inventory or sales data
- Access the user's current location (latitude and longitude) via the browser or device

Generative AI Tools



Built-in AI Provider Tools

- Executed on the LLM server
- Examples from OpenAI: Web Search, File Search, Computer Use

Custom Tools (Functions)

- Defined by the developer
- Triggered by the LLM when needed
- Run on the application server (Database)
- Supported by all major LLM providers: OpenAI, OCI Gen AI, Cohere, Gemini, Claude, Grok, etc.
- Examples: get_user_details, query_data, send_email, start_workflow, etc.

Al Tools - Structure & Lifecycle



Lifecycle

- 1. The database generates an LLM request and specifies the available tools
- 2. The LLM evaluates whether a tool is needed and selects one if applicable
 - The LLM responds with the selected tool name and required parameters
 - The server executes the tool and returns the result
 - The LLM may invoke another tool and repeat from step 2
- 3. The LLM composes and delivers the final response

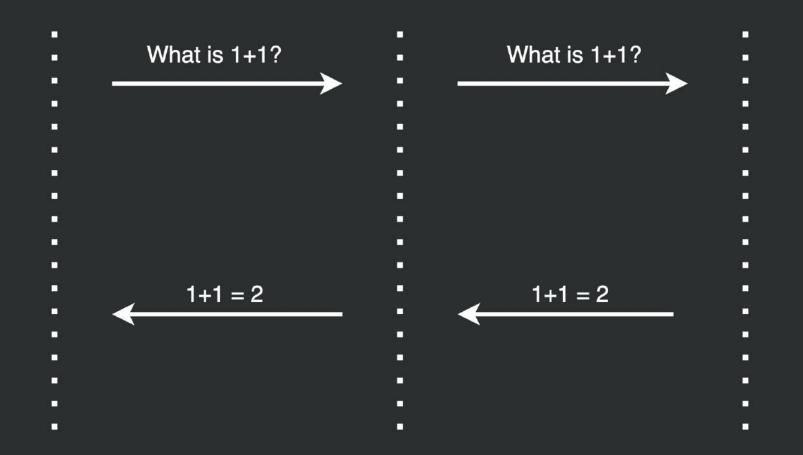




Browser

APEX / DB

LLM





Browser

APEX / DB

LLM

How many customers How many customers in Germany? in Germany? Sorry, I don't have Sorry, I don't have that Information that Information





Browser

APEX / DB

LLM

How many customers How many customers in Germany? in Germany? System: All Customers [...] You have 54 You have 54 customers in Germany customers in Germany





Browser

APEX / DB

LLM

How many customers How many customers in Germany? in Germany? Tools: get_customers (filter) get_customers ('DE') Tool: (1,2,3,...) You have 54 You have 54 customers in Germany customers in Germany



AI Tools - Benefits



Smaller Payloads

 Only essential data is sent with the initial request, reducing overhead and improving performance by excluding unnecessary context.

Improved RAG (Retrieval-Augmented Generation)

Contextual data can be selectively retrieved and injected based on user input, ensuring more
accurate, relevant, and timely responses.

More Powerful AI Assistant Interactions

- Al Assistants can dynamically decide which tools to use, enabling richer conversations, and more intelligent task handling:
 - Query Data (e.g., get_person_details)
 - Execute Tasks (e.g., send_email)

Demo: RAG & AI Tools

Al Vector Search

- Vector Search enables AI-powered similarity search within the Oracle Database by storing and querying data as vectors.
- It allows you to find relevant text, images, or documents based on meaning - not just exact matches - making it ideal for semantic search, recommendations, and generative AI applications.
- Vector Search requires Oracle Database 23ai
- Sample Vector Search Application included in APEX 24.2



Natural Language Reporting & Insights

Brings AI directly into APEX's most popular feature, Interactive Reports. Enables users to apply formatting, filters, highlights, and visualizations without needing to navigate menus. An LLM interprets the input and applies structured changes through APEX's declarative engine.

Once enabled, this feature brings immediate value to existing applications — no application changes required:

- Natural Language Input: Users can say things like "group by region and show totals" to instantly apply report
 formatting, filters, or visualizations. Behind the scenes, LLMs translate natural language input into structured,
 valid JSON that is parsed by the APEX engine no SQL is generated or executed.
- Interactive & Editable: LLM-generated customizations display as UI "chips" that are easy to understand and edited.
- Always Accurate: The LLM parses natural language input and simply translates that into declarative report
 settings ensuring consistent behavior and eliminating the risks of free-form SQL generation.



Natural Language Reporting - JSON Responses

Filtering

```
{
  "filter": [
    {
      "columnName": "PRODUCT",
      "operator": "EQ",
      "columnValue": "Toothpaste"
    },
    {
      "columnName": "STORE_CITY",
      "operator": "EQ",
      "columnValue": "Chicago"
    }
}
```

Highlighting

```
{
  "highlight": [
     {
        "columnName": "STORE_CITY",
        "operator": "=",
        "columnValue": "Chicago",
        "highlightColor": "#0000FF",
        "highlightType": "ROW"
    }
}
```

Chart

```
{
  "chart":[
    {
      "chartType": "pie",
      "chartLabelColumn": "STORE_CITY",
      "chartLabelTitle": "Store City",
      "chartValueColumn": "INVENTORY_COUNT",
      "chartAggregate": "SUM",
      "chartValueTitle": "Total Inventory",
      "chartSorting": "DEFAULT",
      "chartOrientation": "vertical"
    }
]
```

Demo: Natural Language Reporting & Insights

Maps



Map Region Support for Vector Tile Layers



Map Region Support for Vector Tile Layers

- Improved Performance: Reduces client-side load by replacing large JSON payloads with compact, binary vector tiles (PBF format).
- Efficient Data Transfer: Leverages Oracle Database's get_vectortile function to generate compressed vector tiles directly in the database.
- Optimized for Scale: Minimizes data overhead and enhances rendering speed, especially for maps with thousands of geometries.



Sample Data

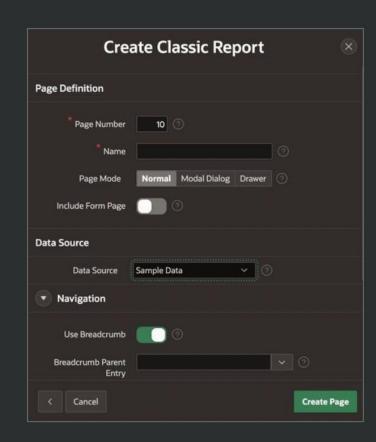


Sample Data



Sample Data

- Enables quick component creation by using built-in sample data without needing to define a data source.
- Supports tailored sample data per component type to ensure appropriate visuals, with flexibility for plug-in developers to define their own demo queries.
- Helps developers build UI mockups faster and independently of backend data availability.
- Lets UI developers focus on layout while data source developers define actual queries or REST sources later.





APEXIang



APEXIang

APEXIang is a human-readable language that defines Oracle APEX applications as files, enabling modern file-based workflows and unlocking future AI-powered development.

What is APEXlang?

Language for APEX

Defines every aspect of an APEX application

Human-readable file format (.apex)

Easily imported/exported from the APEX engine

Highly abstracted

Focus on what, not how

Documented public grammar

• Enables tool integration and ecosystem growth

Why APEXlang?

Version Control Friendly

• Enables GitHub-based artifact management, diff & merge

AI-Ready

Easily generate and modify apps, pages, and components

Enables development in VSCode

Works with both assistant tools and traditional IDEs

Enables Static Analysis

Supports best practices and security reviews

Open & Differentiated

• Unlike proprietary competitors



APEXIang - Project Structure

Left side:

A structured project with folders for pages, shared components, and the main app definition in application.apx

Right side:

The Testapp is defined in clear text — including name, version, authentication, authorization, session settings, security, globalization, and logo.

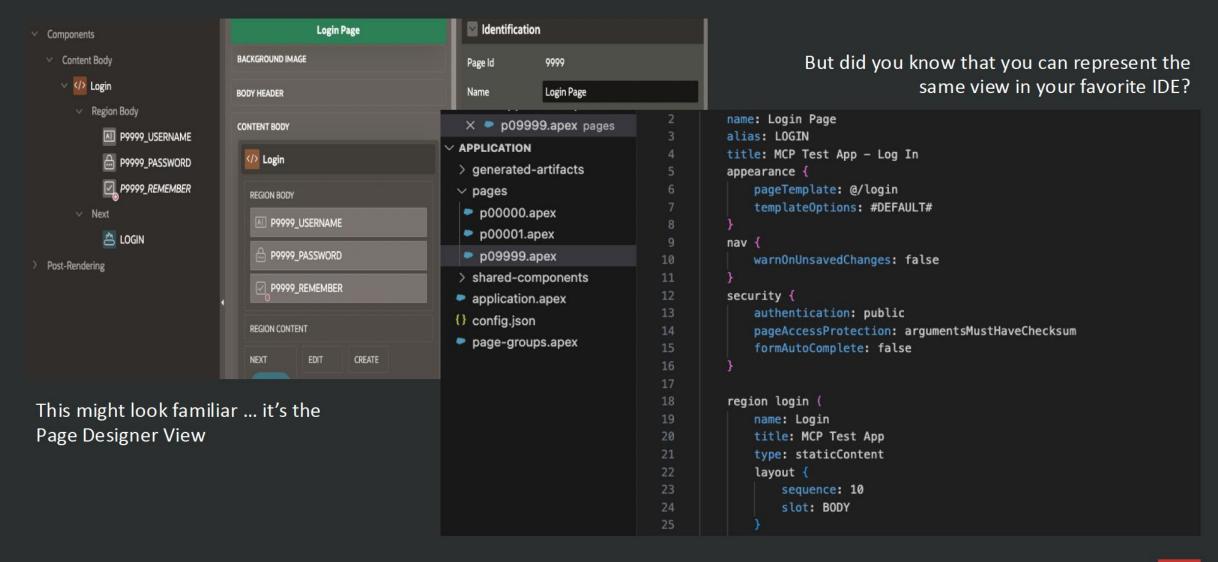
Why it matters:

APEXlang turns APEX apps into readable code





APEXIang - Page Definition





APEX Day in Paris













En collaboration avec



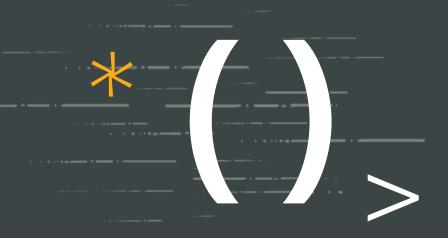




ORACLE

APEX Day in Paris

What's new and what's next in Oracle APEX?





Sonja MeyerConsulting Member of Technical Staff, Oracle Corporation











APEX in Git, plain text in code

CI/CD with APEXLang and a touch of intelligence with MCP

Sonja Meyer

Paris 2025



Safe Harbour Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.



Agenda

Introduction

A brief history of how we used AI services.

MCP

The Model Context Protocol opens a new world. Lets demo...

APEXIang

A new export and import format for APEX to facilitate CI/CD. Lets demo again...

Q&A

Time for your questions and answers.







https://www.linkedin.com/in/sonnemeyer/



https://www.twitter.com/sonjameyer79



https://medium.com/@sonja.meyer



https://bsky.app/profile/sonne79.bsky.social



sonja.meyer@oracle.com



Sonja MeyerConsulting Member of Technical Staff

Introduction

From Tools to Teammates: The Rise of Agentic Al

It was the Age of Simplicity.

Before the rise of countless Al
empires, before the clash of models
with names like Claude, Gemini, and Grok,
there was only one trusted companion:

iar, iar away...

AskAI.

In those ancient days, seekers of knowledge gathered around glowing screens, asking their questions with hope and curiosity. And AskAl faithful, humble, and unshaken by the chaos to come—answered.

There were no endless battles between protocols, no wars of context length, no debates of reasoning versus speed. Just the quiet hum of one voice, guiding dreamers, builders, and wanderers alike.

Though the galaxy has since grown vast and crowded, legends whisper of the time when AskAl reigned alone...

The good old time, when one Al was enough.

Back to present day



Ask Al

Based on user input:

- Answer questions
- Complete tasks
- Reactive, user prompt dependent



Agentic AI

Al agents work autonomously to

- Achieve complex goals
- Proactive, goal-oriented action



LLM vs Agents

Large Language Models are sophisticated AI trained on massive amounts of data. They must be prompted.

Agent can perceive its environment, make decisions, and take actions to achieve specific goals



Tech we used then and now



Ask Al

Examples include ChatGPT, Gemini, Perplexity, DeepSeek, others, others.



Agentic Al

Examples include Copilot, Claude, Windsurf, Cline, Roo Code



Large Language Models

LLMs really start to make sense when combined with agents. Only then can the start to be productive



Would you like a personal assistant for your Oracle Database?

Business Tasks

Reporting, forecasting, summarising

Database Administration Tasks

Maintain, diagnose, secure, automate, ...

Developer Tasks

Explain, debug, document, tune, build, enhance,





Say hello to the Model Context Protocol

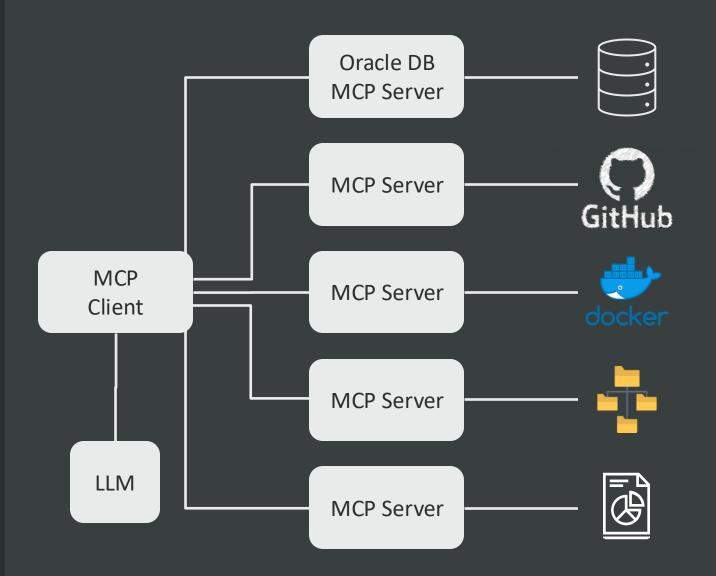
Today: Agentic AI and your Oracle Database are connected via the MCP

Model Context Protocol

Launched Nov 2024 by Anthropic

- Marketed as "USB-C for AI applications".
- Singular interface to standard interactions with database, files, business apps, developer tools...
- Simplification hides the complexity of the Server implementation.

Refer to <u>modelcontextprotocol.io</u> for an introduction.





What does an MCP Server provide?

MCP Servers

Marketplace Remote Servers Installed

The Model Context Protocol enables communication with

M M M

Resource

informa
File con
respons

Data so

locally running MCP servers that provide additional tools and resources to extend Cline's capabilities. You can use community-made servers or ask Cline to create new tools specific to your workflow (e.g., "add a tool that gets the latest npm docs"). See a demo here.

Tools

Executa can invo

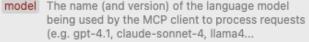
File ope

Prompt

Reusabl interact

System





LLM-Agent-MCP Server-Database Flow

1. Tool Discovery

Server responds with available tools (name, schema, metadata)

2. Tool Selection by Model

LLM chooses the tool based on user intent. Client receives selection and prepares tool call

3. Tool Invocation

Server executes tool and returns result (text, images, structured data)

4. Result Handling

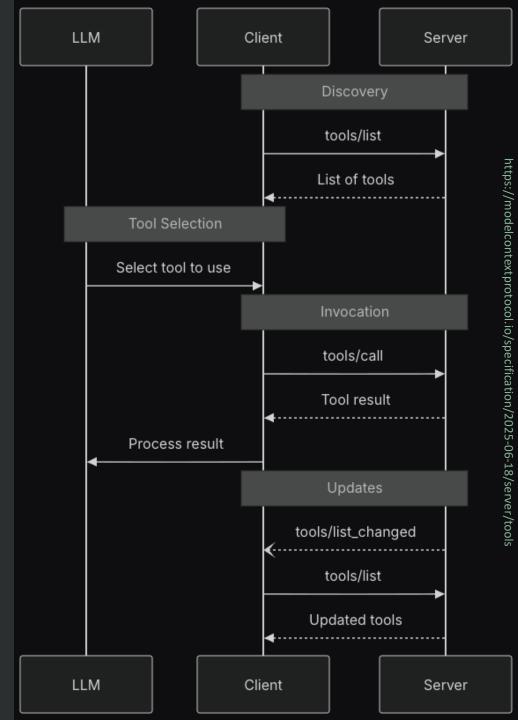
Client forwards tool response to LLM. LLM continues conversation using tool output

🔔 5. Dynamic Tool Updates (Optional)

Client re-fetches updated list via tools/list

X Summary

Enables dynamic, modular, and structured tool use in AI interactions.



Introducing Oracle Database's MCP Server

Available for:

- any edition, including FREE
- any version (19, 21, 23)
- etc.)

Provides Oracle Database access to agents

- List connections
- Connect to the database
- Run queries, scripts, or commands

The MCP Server runs locally.

```
SOLcl: Release 25.2 Production on Tue Jul 22 10:35:35
                                                           2025
any deployment (on-premises, Cloud, containers, Cloud, containers, Opyright (c) 1982, 2025, Oracle. All rights reserved
                                                           Connected to:
                                                           Oracle Database 23ai Free Release 23.0.0.0.0 - Develop,
                                                           Learn, and Run for Free
                                                           Version 23.5.0.24.07
                                                           SOL> cm list
                                                              Cloud
                                                               ☐ Autonomous Reporting
                                                               Local
                                                                   Project Payroll§
                                                                  Project Raptor 🍗
                                                           SQL>
                                                           viins ¦ 1:0 ¦ HR ¦ Project Raptor 🦒
```

SQLcl: a modern command line interface



ALIAS	APEX	AQ	ARBORI	AWR	BACKGROUND	BLOCKCHAIN_ TABLE	BRIDGE
CD	CERTIFICATE	CLOUDSTORAGE	CODESCAN	CONNMGR	СОРУ	cs	CTAS
DATAPUMP	DBCCRED	DDL	DG	DIRS	FIND	FORMAT	HISTORY
IMMUTABLE_ TABLE	INFORMATION	JOBS	LIQUIBASE	LOAD	MDB	MIGRATEADVISOR	MLE
MODELER	NET	OCI	OCIDBMETRICS	OERR	ORAPKI	POPD	PROJECT
PUSHD	RCV	REPEAT	REST	SCRIPT	SDK	SECRET	SODA
SSHTUNNEL	TNSPING	TOSUB	UNLOAD	VAULT	WAIT4	WHICH	



Example #1

Say hello to the SQLcl MCP Server

Introduction to Copilot in VSCode

Configuration options and file locations.

Interacting with the MCP Server

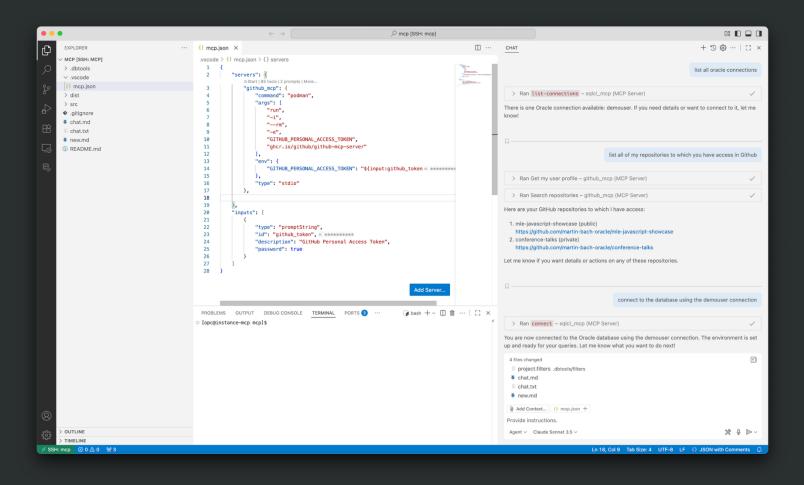
Talk to the database. In any language.

Do something meaningful

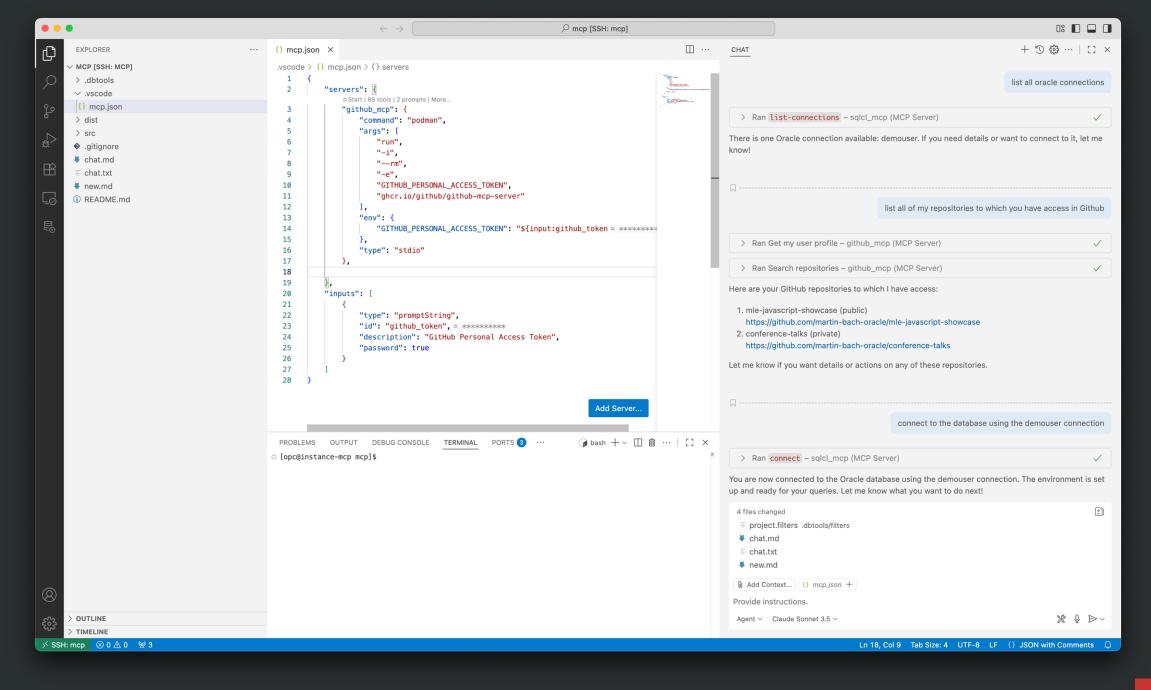
Let generative AI services create an APEX app.

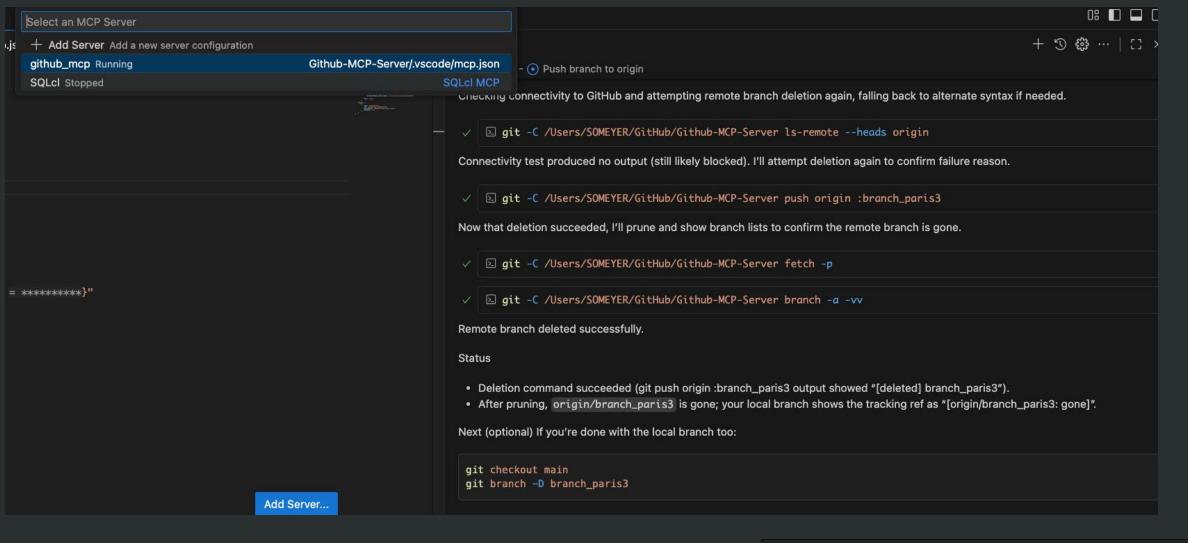


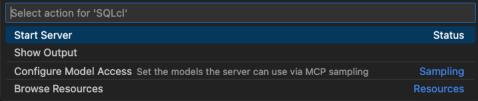
Agents are supported in all major Integrated Development Environments













APEXIang

What If APEX Was Git-Friendly? Now It Is... Code It. Git It. Ship It.



Introducing APEXIang

APEXIang is a human-readable language that defines Oracle APEX applications as files, enabling modern file-based workflows and unlocking future AI-powered development.

What is APEXlang?

Language for APEX

• Defines every aspect of an APEX application

Human-readable file format (.apex)

Easily imported/exported from the APEX engine

Highly abstracted

Focus on what, not how

Documented public grammar

• Enables tool integration and ecosystem growth

Why APEXlang?

Version Control Friendly

• Enables GitHub-based artifact management, diff & merge

AI-Ready



• Easily generate and modify apps, pages, and components

Enables development in VSCode

• Works with both assistant tools and traditional IDEs

Enables Static Analysis

• Supports best practices and security reviews

Open & Differentiated

• Unlike proprietary competitors



Project Structure

Left side:

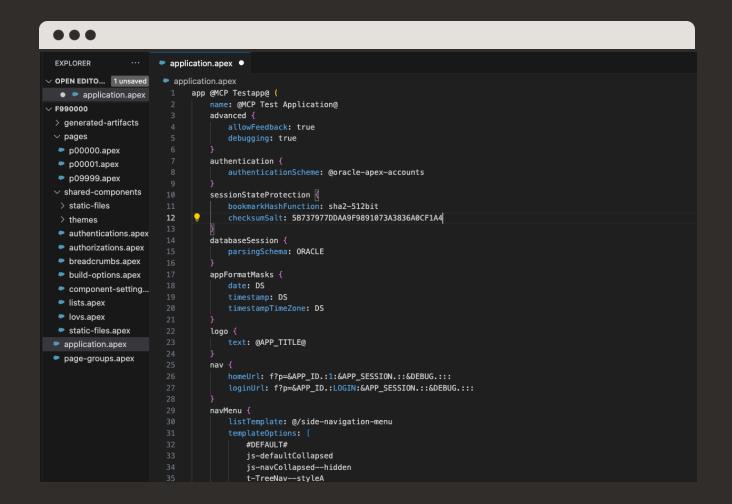
A structured project with folders for pages, shared components, and the main app definition in application.apex

Right side:

The Testapp is defined in clear text — including name, version, authentication, authorization, session settings, security, globalization, and logo.

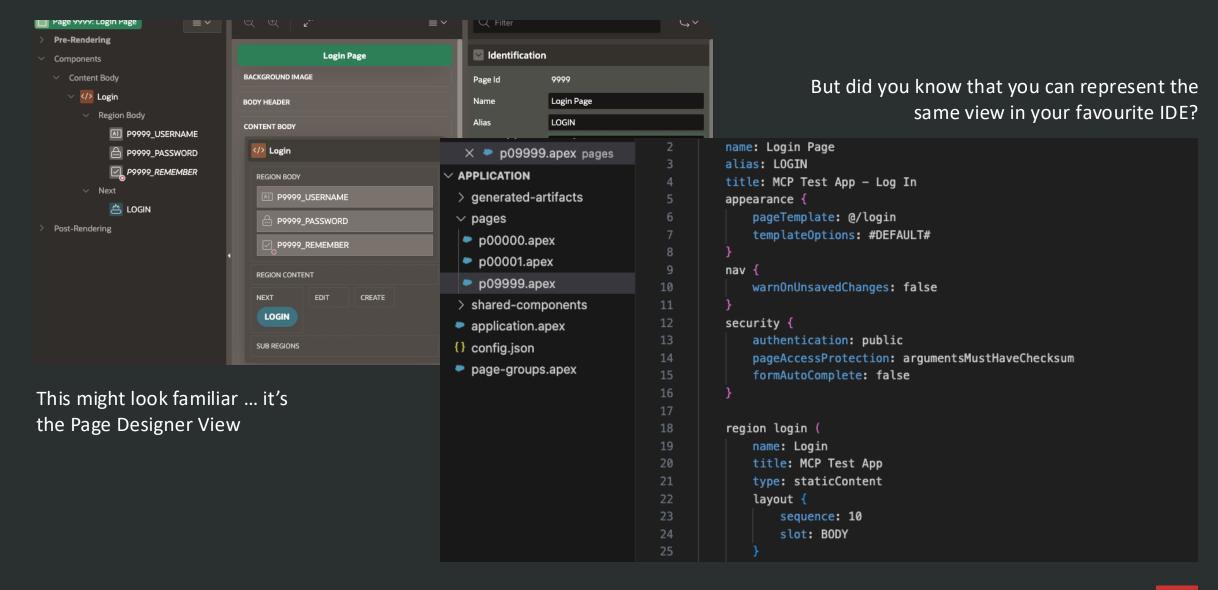
Why it matters:

APEXlang turns APEX apps into readable code





APEXIang: Page Definition

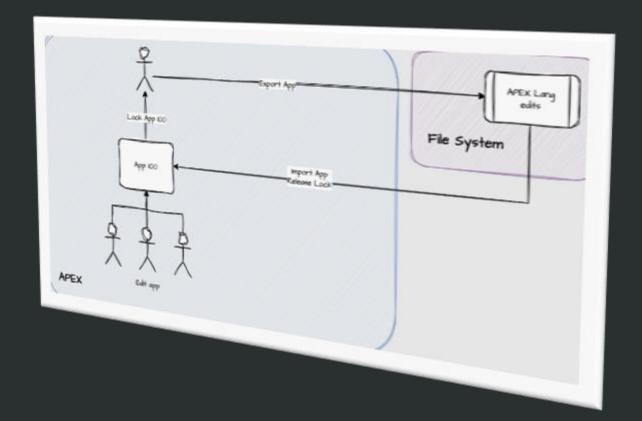


Use Cases

Fill the missing gaps for APEX

use cases:

- human_readable:
 - "Structured, understandable text."
- modifiable:
 - "Change code directly."
- version_controlled:
 - "Git-friendly like your favorite repo."
- installable:
 - "Script it. Ship it."
- bulk_updates:
 - "Change what you want at once."
- enterprise_governance:
 - "Audit logs, traceability. CTOs love it."
- ai_friendly:
 - "ChatGPT understands it. Scary, right?"





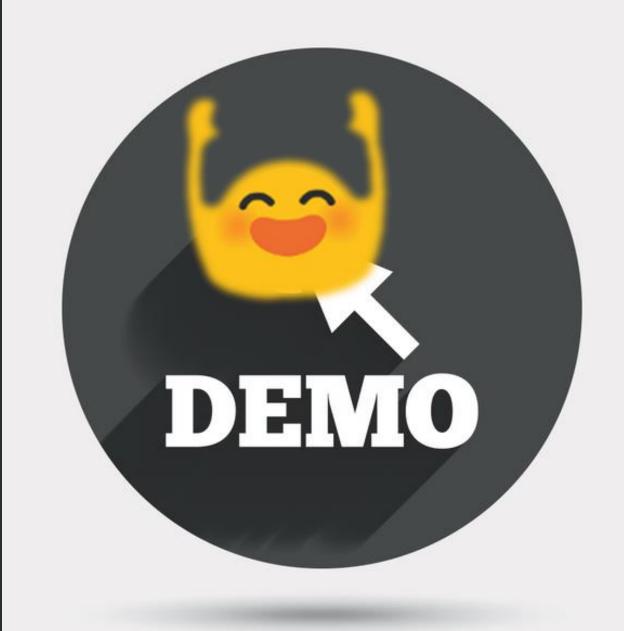


Example #2

Say hello to the APEXLang

And now for the amazing APEXlang ...

...this is how it looks like!



Example #3

Say hello to the APEXLang in friendship with our SQLcl MCP Server

Interacting with the MCP Server

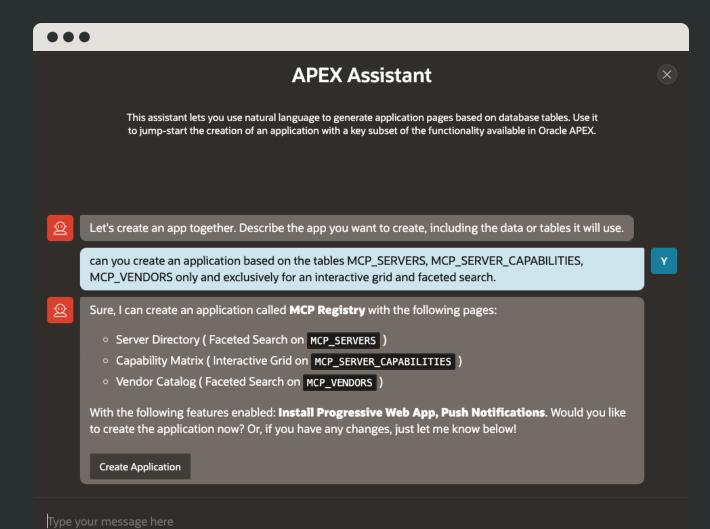
APEXlang and MCP: a great friendship for DevOps

```
EXPLORER
                                            application.apex 1
authentications.apex
                                              ■ application.apex > 分 app > { } authentication >  authenticationScheme
OPEN EDITORS 1 unsaved
                                                    app @APP_ALIAS@ (
                                                        name: @APP_NAME@
                                                        advanced {
APPLICATION
                                                           allowFeedback: true
> generated-artifacts
                                                            debugging: true
                                                        authentication {
 shared-components
 > static-files
                                                                                   🖶 @oracle-apex-account_test
                                                        sessionStateProtection { @@oracle-apex-accounts
                                                            checksumSalt: 5B737977DDAA9F9891073A3836A0CF1A440C51A74B10926206938E680A5499B4
                                                        databaseSession {
 build-options.apex
                                                           parsingSchema: ORACLE
                                                        appFormatMasks {
 lists apex
 lovs.apex
                                                            timestamp: DS
                                                            timestampTimeZone: DS
application.apex
{} config.json
                                                            text: @APP_TITLE@
page-groups.apex
```



APEX AI Assistant

Look how cool it can work...



Lets do SQLcl project

Agent is not that bad working with Terminaluntil MCP is available for this!

He only likes German language more than english!



please run this command and don't wait for output:
/Users/SOMEYER/dev/sqlcl/bin/sql -name "podman_local23ai ORACLE" and
after that run "project export -objects MCP_SERVERS,
MCP_SERVER_CAPABILITIES,MCP_VENDORS -schemas ORACLE -verbose"
and don't wait for output

① README.md:30

```
/Users/SOMEYER/dev/sqlcl/bin/sql -name "podman_local23ai ORACLE" <-EOF

/ project export -objects MCP_SERVERS,MCP_SERVER_CAPABILITIES,
MCP_VENDORS -schemas ORACLE -verbose
EOF
```

Die SQLcl-Befehle wurden erfolgreich ausgeführt:

- Die Verbindung zu podman_local23ai ORACLE wurde hergestellt.
- Der Befehl project export -objects
 MCP_SERVERS,MCP_SERVER_CAPABILITIES,MCP_VENDORS -schemas ORACLE verbose wurde ausgeführt.
- Es wurden 5 Objekte exportiert (inklusive Tabellen und Constraints).

Du kannst jetzt die exportierten Dateien im Projektverzeichnis weiterverwenden oder ins GitHub-Repository committen. Wenn du weitere Schritte brauchst (z.B. Git-Commit, APEX-Export, etc.), sag einfach Bescheid!



Imagine you Git Superpowers

GitHub MCP is suporting you in the DevOps lifecycle... where magic happens!

create new branch for issue "change app name"

I'll create and push a branch named issue/change-app-name for the GitHub issue so you can work on it; I'll create the branch locally and push it upstream setting the tracking branch. I'll run the git commands in the project folder.

```
✓ git switch -c issue/change-app-name
```

git push -u origin issue/change-app-name

stage all files and commit and push to branch

I'll run three terminal commands to stage, commit, and push all changes to the branch issue/change-app-name. Expected outcome: files staged, committed, and pushed with upstream set.

```
✓ git add .
```

git commit -m "Work on issue/change-app-name: rename app and
update exported APEX files" || true

```
✓ git push -u origin issue/change-app-name
```

Done — all files staged, committed, and pushed to the new branch issue/change-app-name.

What's next: open a PR, apply the rename in exported APEX files, or add more changes on the branch. Which should I do?

Learn More...

Primary site

APEX Shortcuts

APEX Community

Blogs

APEX on Autonomous

Database Cloud Services

Oracle APEX Education

Oracle APEX + AI

apex.oracle.com

apex.oracle.com/shortcuts

apex.oracle.com/community

blogs.oracle.com/apex

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apex.oracle.com/go/ai







APEX Day in Paris







En partenariat avec





En collaboration avec



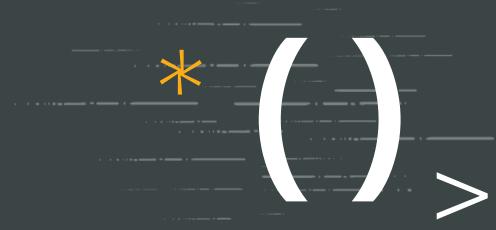




ORACLE

APEX Day in Paris

Session de clôture





Mónica GodoySenior Principal Product Manager for Oracle APEX, Oracle Corporation







Key Takeaways

- Free with the Oracle Database and also available as a service on OCI
- Runs in the Oracle Database which delivers scalability, low cost, and performance
- What's coming for APEX:
 - Al-assisted Data Reporter for report generation
 - Natural Language Reporting for voice-based data queries
 - Al Function Calling for dynamic searches
 - Git integration for version control
 - Plain-text code via APEXLang for seamless CI/CD pipelines
 - Contextual AI models (via MCP) to modernize workflows, automate deployments, and much more!

ORACLE

APEX Day in Paris



Primary site



apex.oracle.com

Get Started



apex.oracle.com/go/free

APEX Shortcuts



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APEX Training



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Oracle University APEX Certification









APEX Day in Paris

Merci pour votre participation







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