

# Oracle APEX 24.1

## New Features

### **Name**

Presenter's Title

Organization, Division or Business Unit

Month 00, 2024



*“ We're now building a lot of our applications in APEX. And our productivity gains are, again, a factor of 10. And we build the applications in **one tenth** the time, or **one tenth** the amount of people, or at **one tenth** the cost. But these are not typical low-code applications. These are applications that can scale to **millions** of users and all over the world.”*

- Larry Ellison

*Founder & CTO, Oracle*

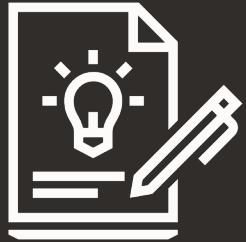
# What's New in Oracle APEX 24.1?

- Generative AI Support
- Powerful Enterprise Components
- Next-Gen Data Platform
- New and Updated Components
- Developer Experience
- General Builder Improvements
- Additional Updates and Enhancements



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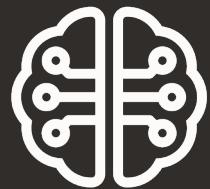
# Oracle APEX 24.1: What's New?



## Generative AI Support

Context-Aware GenAI for Devs

Easy AI Integration for Apps



## Powerful Enterprise Components

Dynamic Data Templating

Enhanced Workflow Engine

Working Copy Compare



## Next-Gen Data Platform

Vector Search

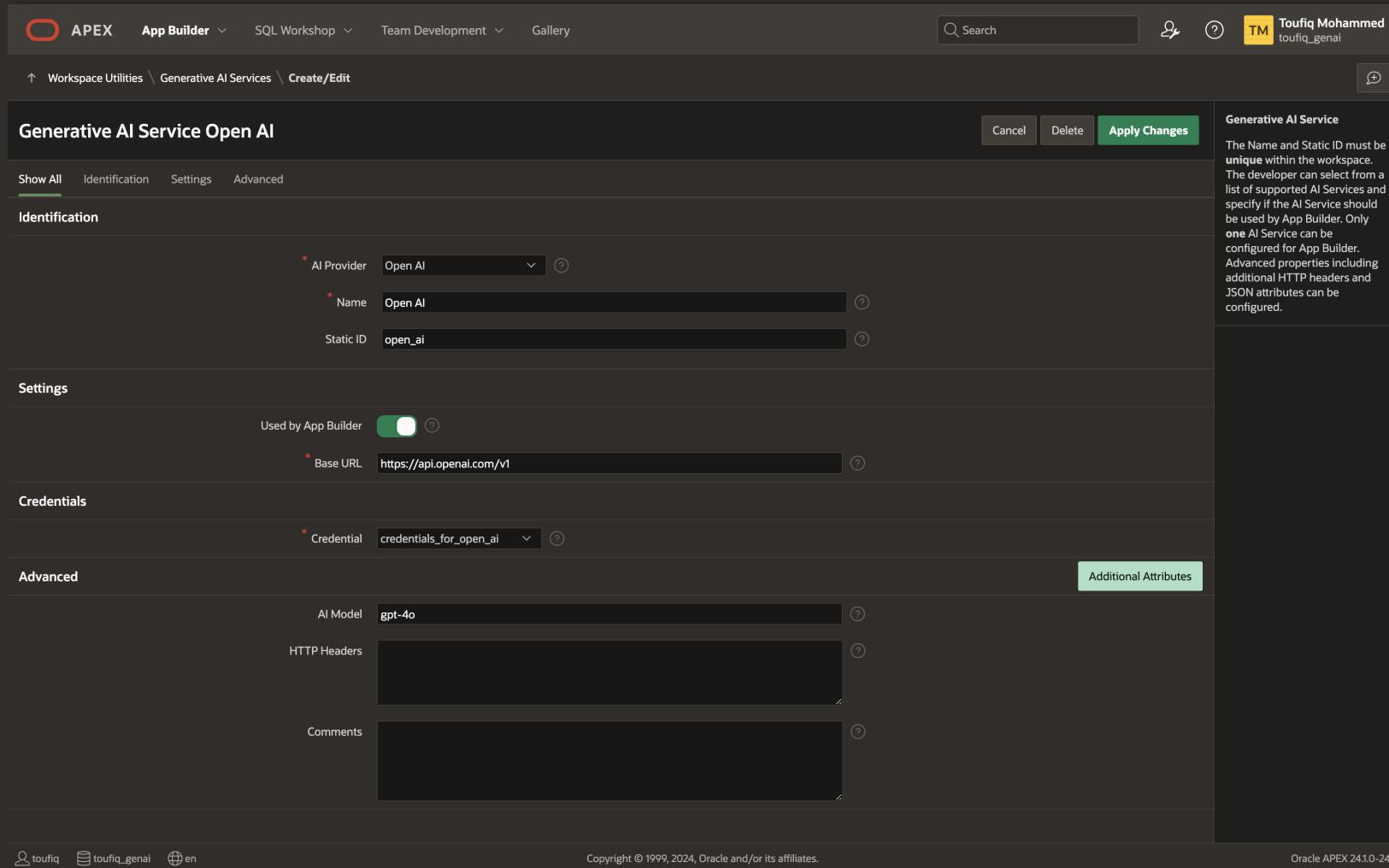
Native Server Side JavaScript

JSON Relational Duality

# Generative AI Support

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# Generative AI Service



The screenshot shows the Oracle APEX 'Generative AI Service Open AI' configuration page. The page has a dark theme with a light gray header. The top navigation bar includes links for APEX, App Builder, SQL Workshop, Team Development, and Gallery. The search bar is empty. The user profile 'Toufiq Mohammed toufiq\_genai' is displayed on the right. The main content area has a title 'Generative AI Service Open AI' and a sub-section 'Identification'. Under 'Identification', there are fields for 'AI Provider' (Open AI), 'Name' (Open AI), and 'Static ID' (open\_ai). A note on the right states: 'The Name and Static ID must be unique within the workspace. The developer can select from a list of supported AI Services and specify if the AI Service should be used by App Builder. Only one AI Service can be configured for App Builder. Advanced properties including additional HTTP headers and JSON attributes can be configured.' The 'Settings' section includes a toggle for 'Used by App Builder' (which is on) and a 'Base URL' field containing 'https://api.openai.com/v1'. The 'Credentials' section has a 'Credential' dropdown set to 'credentials\_for\_open\_ai'. The 'Advanced' section includes fields for 'AI Model' (gpt-4o), 'HTTP Headers' (empty), and 'Comments' (empty). A 'Additional Attributes' button is located in the top right of the 'Advanced' section. The footer contains links for 'toufiq', 'toufiq\_genai', and 'en', along with copyright and Oracle APEX version information.

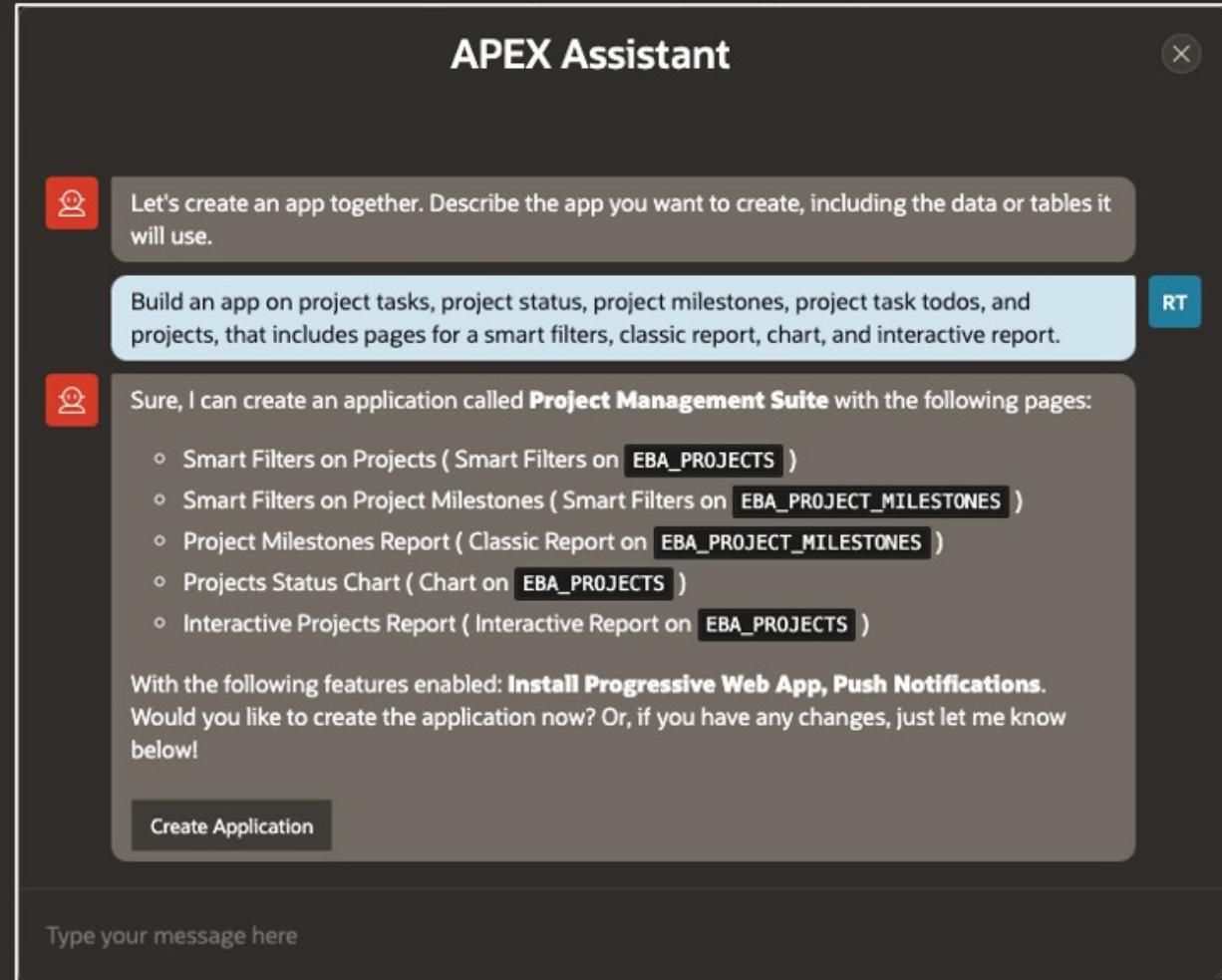
An abstraction to popular commercial **Generative AI products** like Open AI, Cohere and others

Authenticates using **Web Credentials** in Oracle APEX

Used by **App Builder, AI Assistant & APEX\_AI PL/SQL API**

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

# Create App from a Prompt

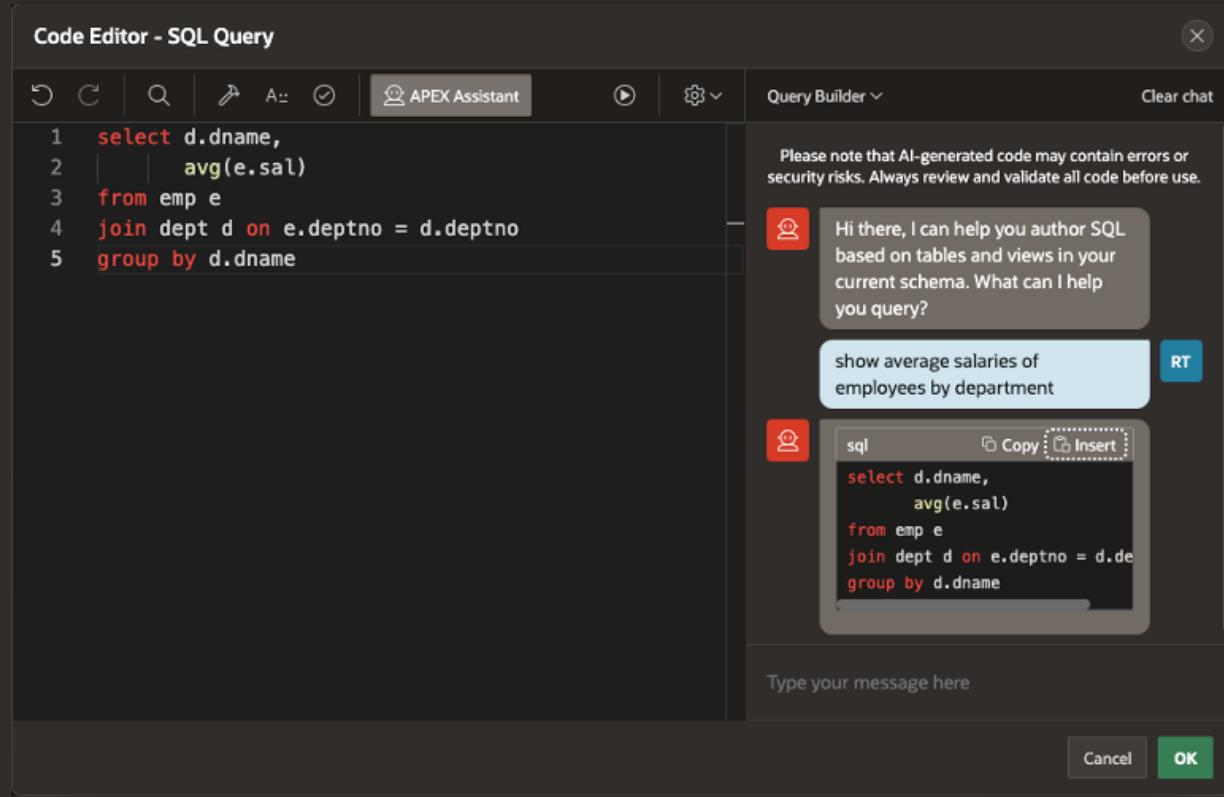


Generate **Application Blueprint** based on a Prompt

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

Further, **enhance the generated blueprint** with additional instructions

# APEX Assistant in Code Editors



APEX Assistant in Code Editors leverage **Generative AI Services**

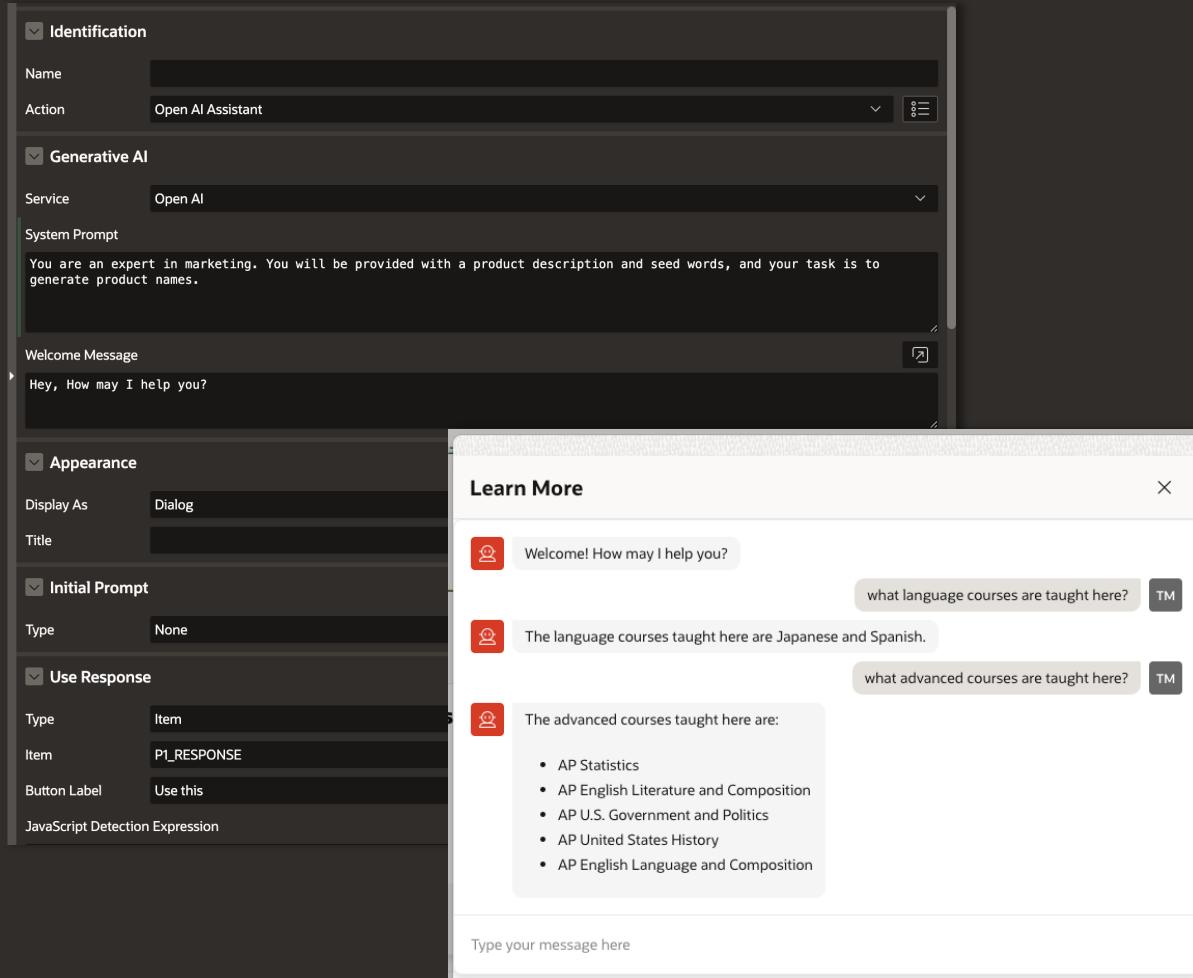
Leverages **APEX Dictionary Cache** to identify relevant tables

**Generate SQL Queries** for form and report regions using the Query Builder mode.

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

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

# Open AI Assistant Dynamic Action



A **Native Dynamic Action** in Oracle APEX which opens an AI Chat User Interface

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

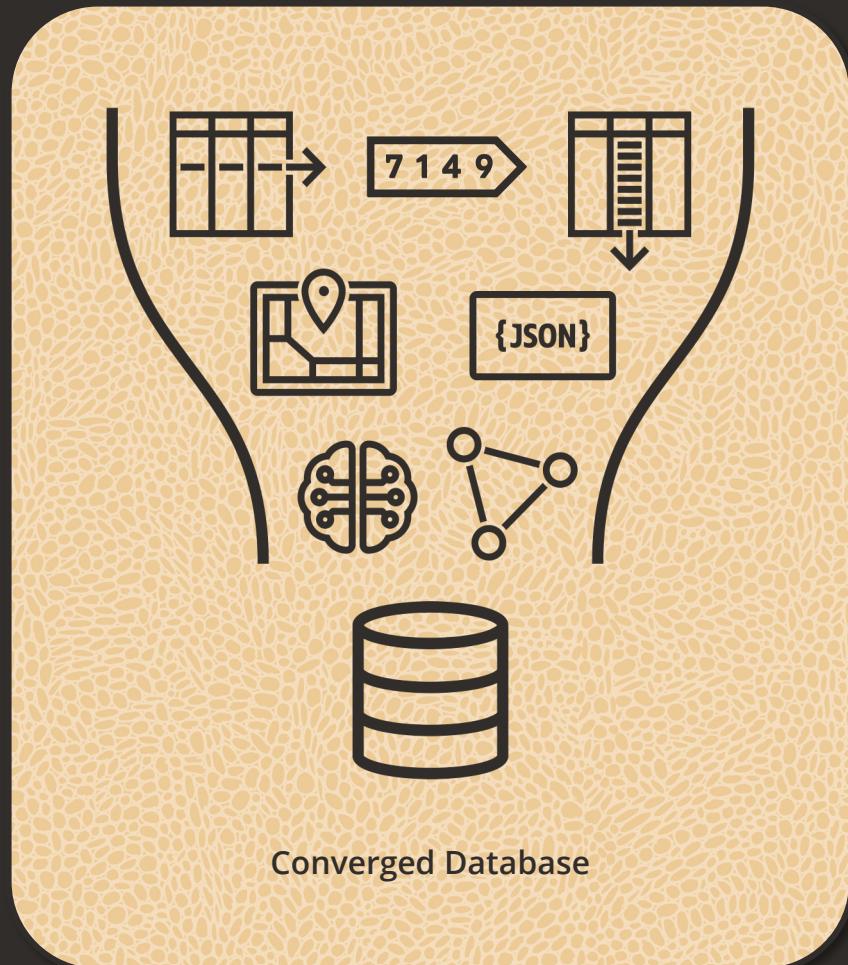
Rendered **Inline** or as a **Dialog**

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

# Next-Gen Data Platform

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# Oracle AI Vector Search - Overview

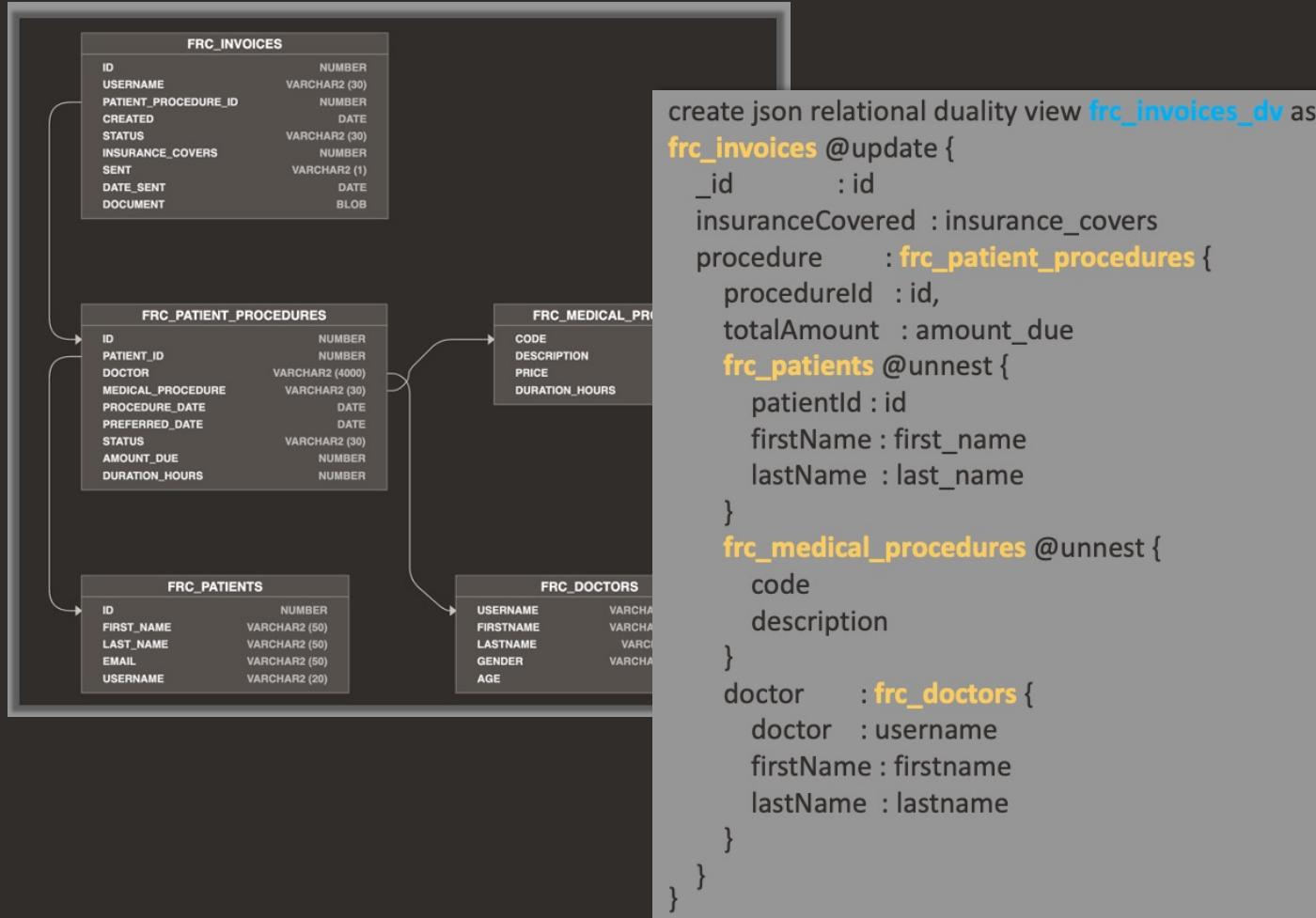


**Vector Data Type** and **Vector Operations**  
Natively implemented in Oracle Database

Enables searches on **Business Data** to be  
combined with **Semantic Searches**

Allows interactions with **Large Language  
Models (LLMs)** to be augmented with  
business data

# JSON Relational Duality

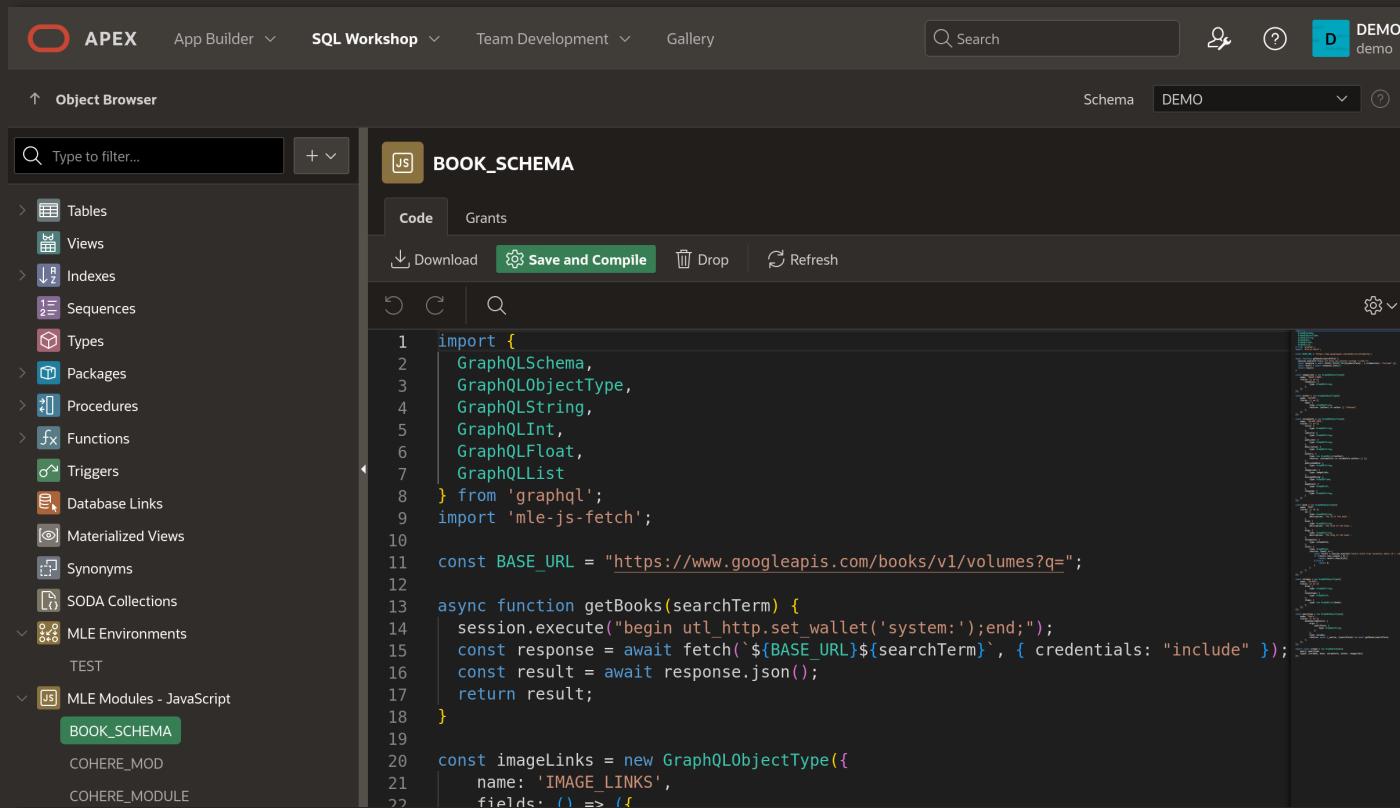


Leverage the **power of relational** and the **simplicity of JSON development** approaches all within a **single app**

By creating simple **JSON Duality views** on top of relational tables you can build apps that use documents to query and update the underlying data sets

APEX apps running on **Oracle Database 23ai** can access the same data as a set of JSON documents or as relational tables and columns **without data duplication**.

# Server-Side JavaScript for Business Logic



```
import { GraphQLSchema, GraphQLObjectType, GraphQLString, GraphQLInt, GraphQLFloat, GraphQLList } from 'graphql';
import 'mle-js-fetch';

const BASE_URL = "https://www.googleapis.com/books/v1/volumes?q=";

async function getBooks(searchTerm) {
  session.execute("begin utl_http.set_wallet('system:');end;");
  const response = await fetch(` ${BASE_URL}${searchTerm}`, { credentials: "include" });
  const result = await response.json();
  return result;
}

const imageLinks = new GraphQLObjectType({
  name: 'IMAGE_LINKS',
  fields: () => {}
```

MLE allows you to **run JavaScript** directly in the Oracle Database

Create **JavaScript modules** as schema objects that are stored persistently in the database.

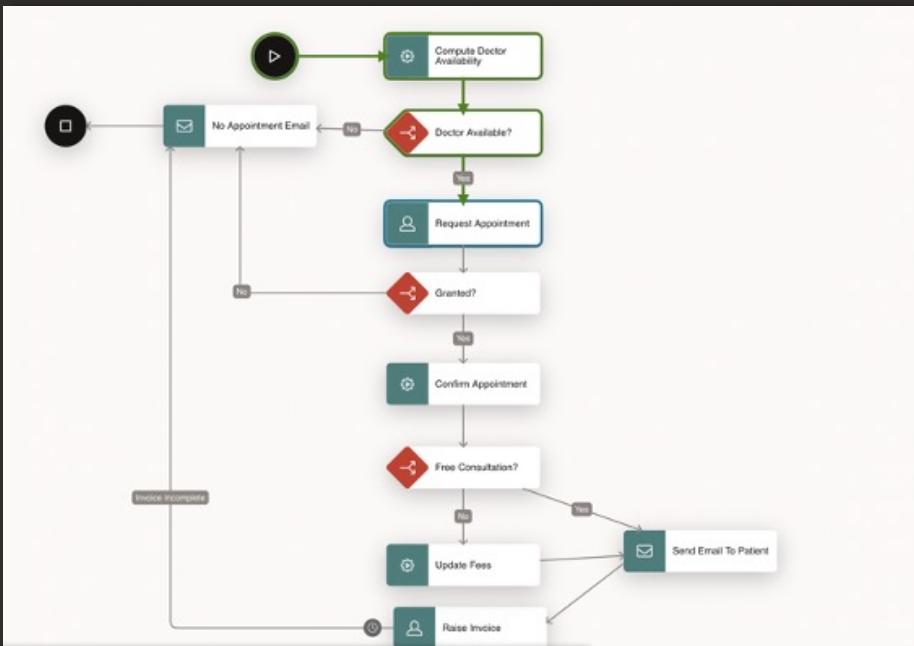
Oracle APEX automatically maps the **JavaScript data types** to **Oracle Database types**.

Import and Leverage many **open-source libraries** from over a million JavaScript modules available online

# Powerful Enterprise Components

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# Workflow Enhancements



## Identification

Name

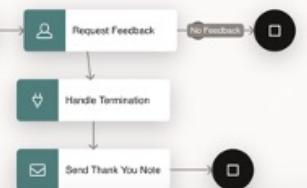
Diagram

Title

Workflow Audit Diagram

Type

Workflow Diagram



**Workflow Diagram region** displays a read-only, real-time visual representation of the workflow's progress, highlighting completed nodes and the workflow route

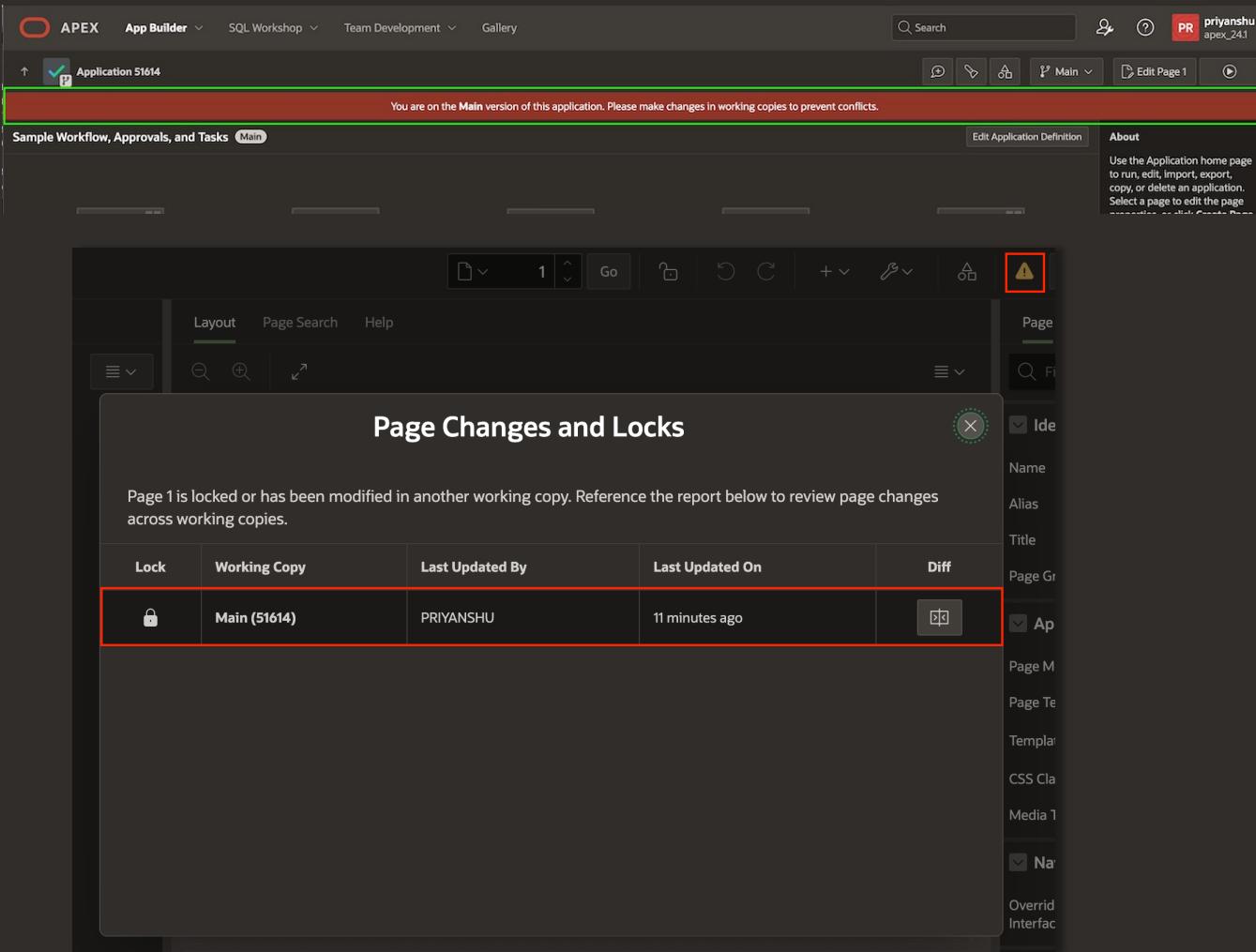
Public APIs to fetch and handle **purgeable task** and workflow instances **before purging**.

**Termination Function** for Asynchronous Activity Plugins

New **Workflow Dashboard** Page

Workflow **Instance ID** Available for **Debug Messages**

# Working Copy Enhancements



Page Changes and Locks

Page 1 is locked or has been modified in another working copy. Reference the report below to review page changes across working copies.

Lock	Working Copy	Last Updated By	Last Updated On	Diff
	Main (51614)	PRIYANSHU	11 minutes ago	

Visually indicate **changed** and **locked** pages by **another working copy or main**

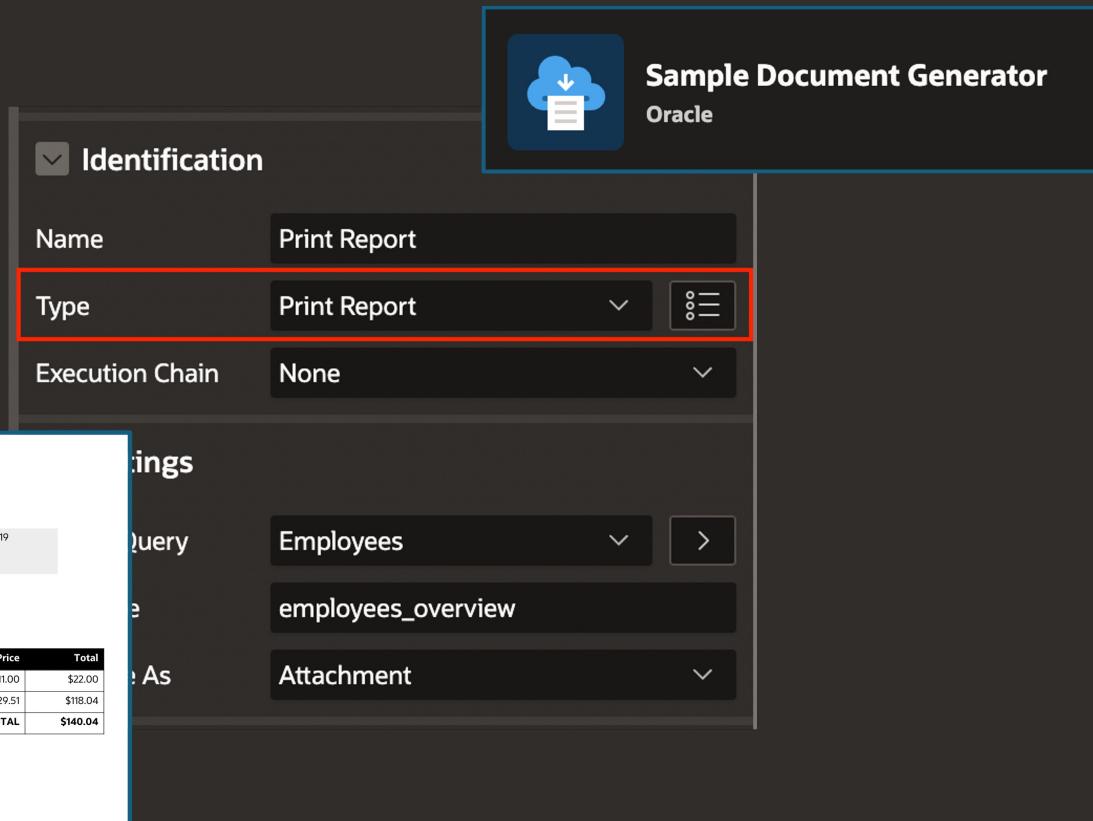
**Visual Indicator** when you are on the main application in page designer

**Compare page with the main** utility

Report to see which working copies have **modified or locked a page** and view the differences between copies.

YAML diff editor **shows the last updated date** to help developers identify the latest version.

# Pixel-Perfect Reports using OCI Document Generator Pre-Built Function



The screenshot shows the Oracle APEX interface. At the top, there is a configuration panel for the "Sample Document Generator" (Oracle). The "Type" field is set to "Print Report" and is highlighted with a red box. Below this, there are fields for "Execution Chain" (set to "None") and "Attachment" (set to "Attachment").

On the left, there is a preview of an "Order Form" PDF. The PDF contains customer details (Twila Hilliard, Email: twila.hilliard@internalmail.com), a date (2023-08-19), and an order number (355). It also includes a table of items purchased:

Item #	Product	Qty	Unit Price	Total
38	Girl's Pyjamas (Red)	2	\$11.00	\$22.00
56	Women's Trousers (Blue)	4	\$29.51	\$118.04
			<b>TOTAL</b>	<b>\$140.04</b>

At the bottom of the PDF, it says "Thank you for your order!"

Leverage the **OCI Document Generation Pre-Built Function** to print pixel-perfect reports

Generate PDF documents from a combination of **JSON data** and **Microsoft Word templates**.

New page process type - **Print Report**.

# Template Components Enhancements

Current Selection  
100068:100069:100070

Select All

<input checked="" type="checkbox"/> HM	Arts <b>Henri Matisse</b> Gender: Male, Born: 1869 , Died: 1954	27.388567
<input checked="" type="checkbox"/> RB	Science & Technology <b>Robert Boyle</b> Gender: Male, Born: 1627 , Died: 1691	26.560899
<input checked="" type="checkbox"/> HIO	Politics <b>Henry III of France</b> Gender: Male, Born: 1551 , Died: 1589	26.560281
<input type="checkbox"/> SOA	Politics <b>Sargon of Akkad</b> Gender: Male, Born: -2360 , Died: -2284	26.553486
<input type="checkbox"/> HER	Politics <b>Heraclius</b> Gender: Male, Born: 575 , Died: 641	

Row Selection

Type

Current Selection

Page Item

None

Focus only

✓ Single Selection

Multiple Selection

PZI\_SELECTION

## Declarative Selection Support for Template Component Reports

Template Components **without Data Source - Static Values**

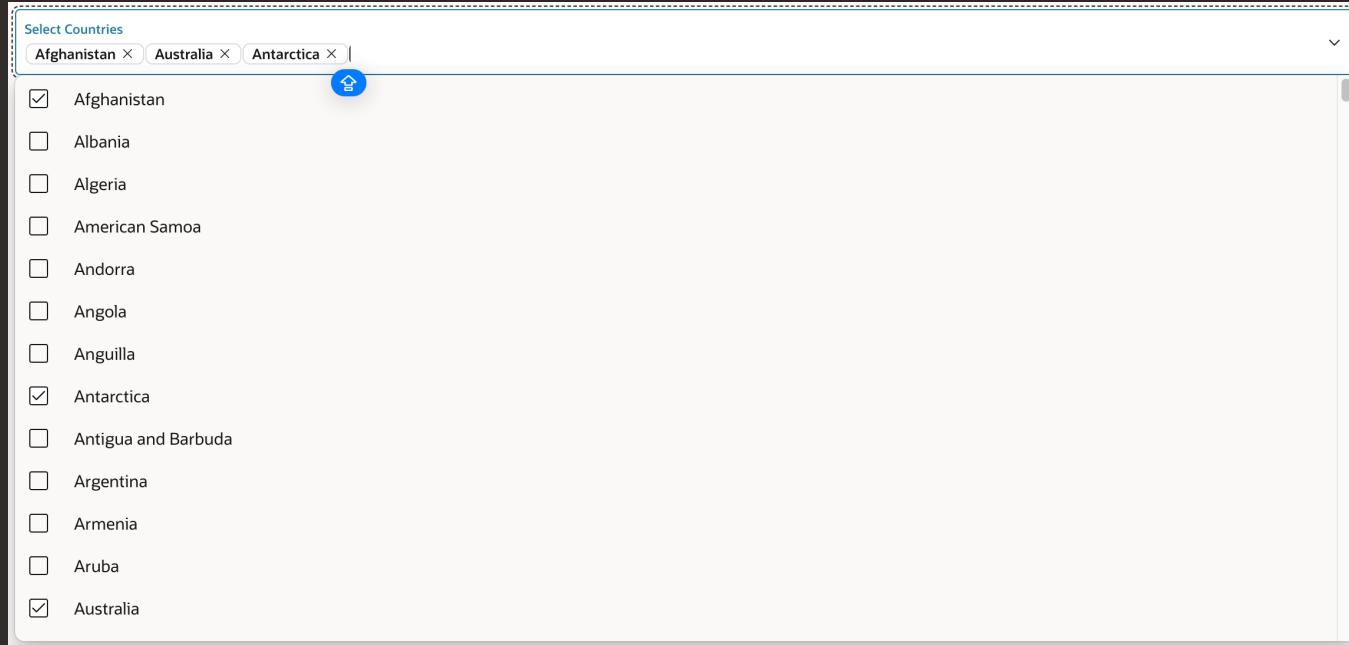
**Slots** for Template Components

# New and Updated Components

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# New Select One and Select-Many Item Types

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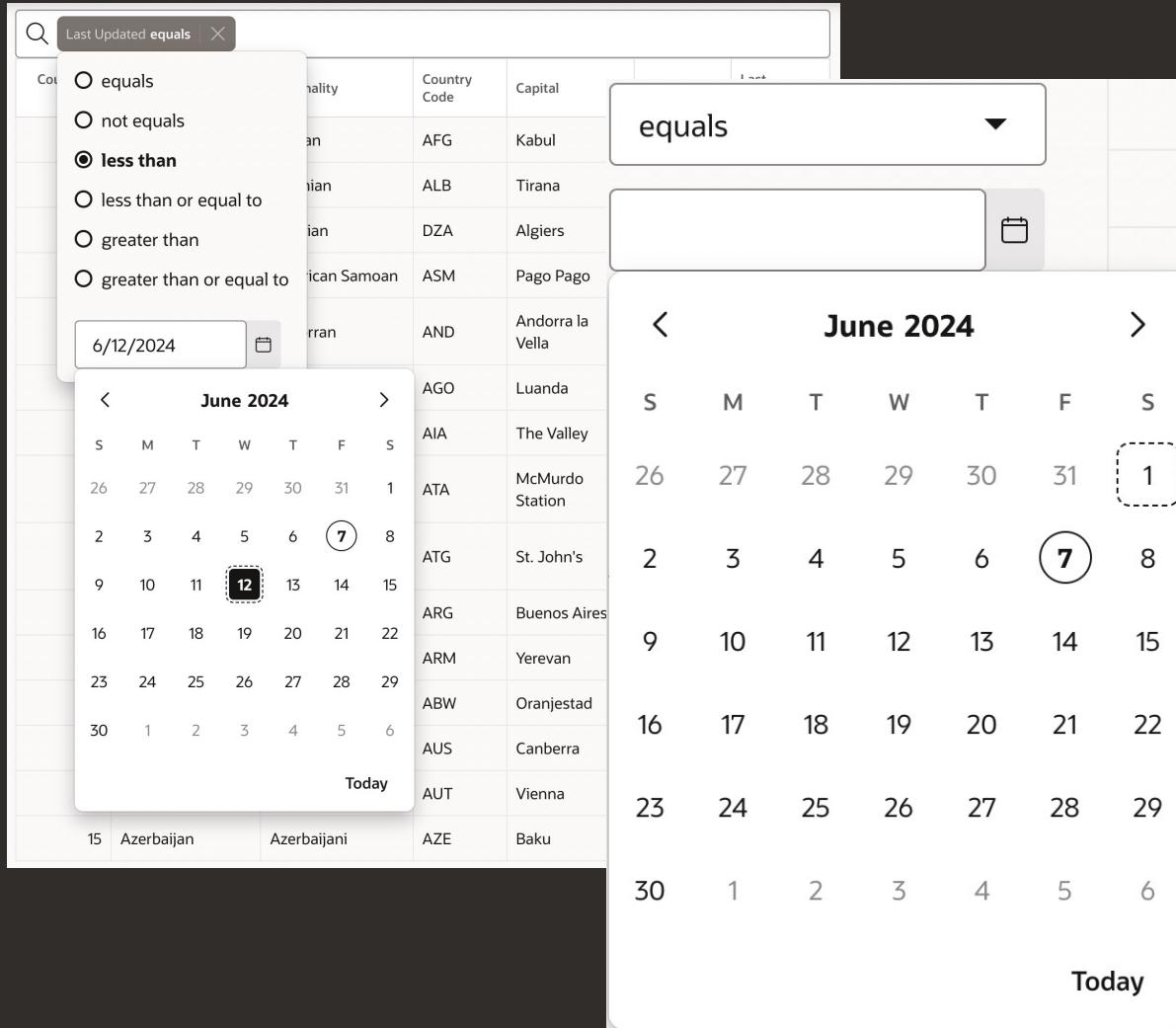


An **LOV based item**, that allows only entries included on the data set, like a select list.

Support includes:

- Custom HTML for the choices with Template Directives
- Icons
- Groups
- JSON Session State
- Multi-column search, and displaying
- Multi-select, user can select more than one option, and the dropdown remains open.
- Show chips as delimited list, when the focus is not on the Select Many item

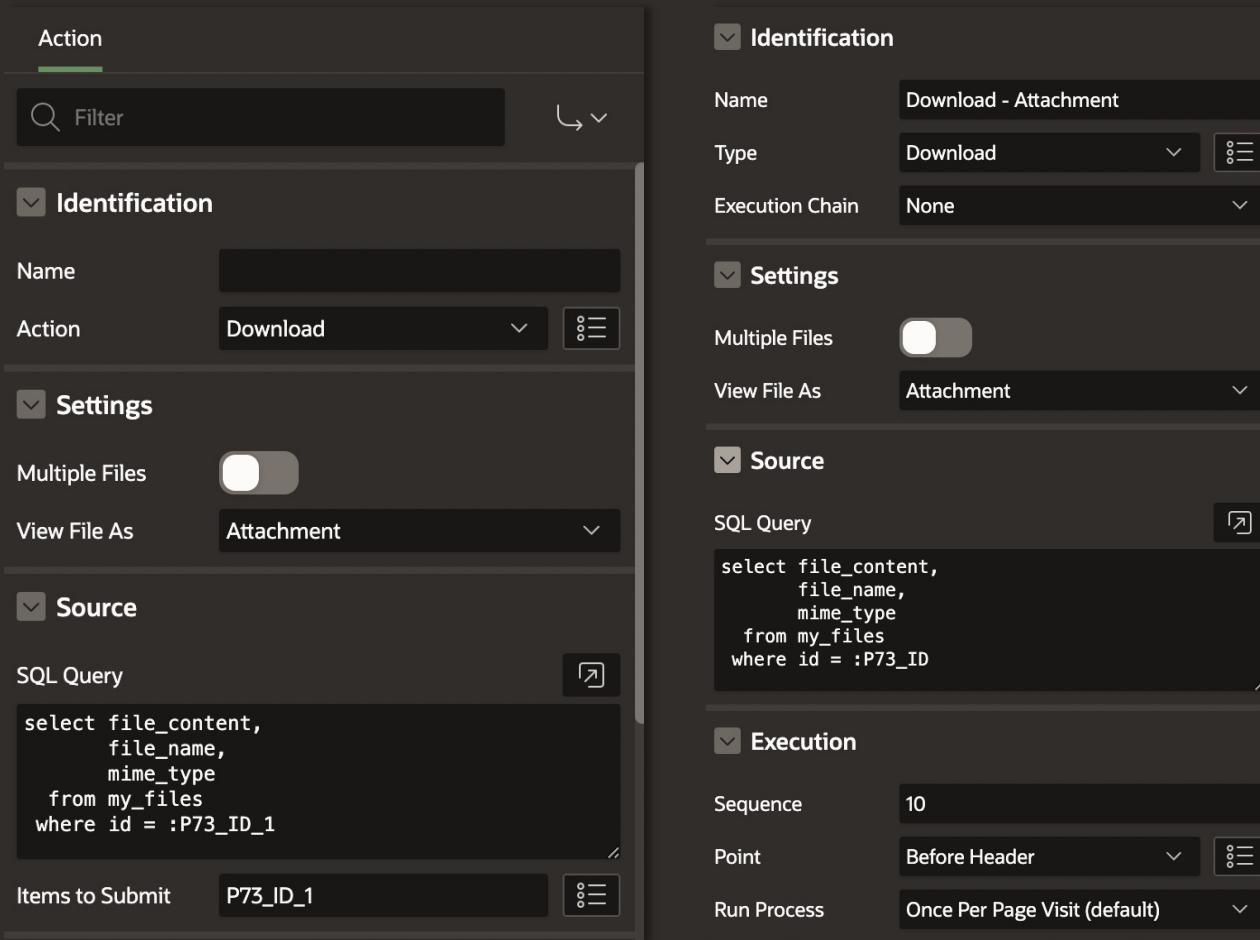
# Date Picker Support in Faceted Search and Smart Filters



**Date Picker support** for Input Facets and Manual Range Inputs on Faceted Search and Smart Filters Regions.

You can set/use your own **format mask** for date representation.

# Declarative BLOB/CLOB File Download Support



The screenshot shows the configuration interface for a declarative BLOB/CLOB file download. It includes sections for Action, Identification, Settings, Source, and Execution. The Identification section is expanded, showing a Name of 'Download - Attachment', a Type of 'Download', and an Execution Chain of 'None'. The Settings section includes a 'Multiple Files' toggle and a 'View File As' dropdown set to 'Attachment'. The Source section contains an SQL Query for retrieving file content, and the Execution section specifies a Sequence of 10 and a Point of 'Before Header'.

```
select file_content,
       file_name,
       mime_type
  from my_files
 where id = :P73_ID
```

New “Download” **Dynamic Action**

New “Download” **Process Type**

Download **multiple files as a zip archive**

Support **CLOB/VARCHAR2 data types** as file content

Show file as **attachment** (download) or **inline** (inside browser)

# Server Side Geocoding

A **new process type, Server Side Geocoding**, is available on **Oracle APEX Autonomous Database instances**.

This allows users to turn a **postal address to a coordinate on the server** independently from the UI.

Server Side Geocoding is supported for Page Processes, Automation Actions, Task Definition Actions, and Workflow Activities

# Multi-Domain Support for SAML Authentication

APEX now supports the "**AssertionConsumerServiceIndex**" attribute in SAML authentications.

Administrators can configure **SAML callbacks for multiple domains**.

See Supported Callback URLs in the Instance Administration settings under Security, SAML Authentication, or [Configuring SAML Sign-In](#) in Oracle APEX Administration Guide.

## Dynamic Action Enhancements

New **'Input'** Dynamic Actions Event

- The browser event Input is now available when configuring a Dynamic Action. The event is fired every time the value of the element changes. This is different from the Change event, which only fires when the value is committed--for example, by pressing the Enter key or selecting a value from a list of options.
- The Input event is not fired when JavaScript changes an element's value programmatically.

New **Quick Pick options** for Dynamic Actions

- Execute JavaScript Code and Execute Server-side Code are now available from the Quick Pick options.

# Improvements to REST Source Infrastructure

Introduction support for hierarchical REST Source Data Profiles. The features at a glance are:

- Introduce "**Array Columns**" in REST Data Source Data Profiles, which allow to model the JSON hierarchy of a REST Data Source.
- APEX Components can now **consume data from REST Sources on every hierarchy level**.
- APEX is no longer limited to REST APIs returning "**flat**" **JSON** responses.
- Array Columns and Hierarchies supported in **REST Source Catalog** as well.
- Full support in **APEX\_EXEC PL/SQL API**: build DML requests with Array columns, and programmatically fetch hierarchical data from REST Sources
- New REST Source parameter type **Parent Column** allows to pass the value of a Parent IG in a Master Detail relationship to the REST Source.
- New "**Is Common**" Data Profile Column attribute. This allows our Create Page wizards to focus on the important attributes when creating new pages.

# Support for Database Credentials

Web credentials can now reference a database credential to store the Client ID and Client Secret.

The web credential type must be Basic Authentication or OAuth2 Client Credentials. This feature is only available on Oracle Database 23ai or Autonomous Database release 19c or later.

The database credential is completely maintained by the database, and APEX does not have access to the stored secrets

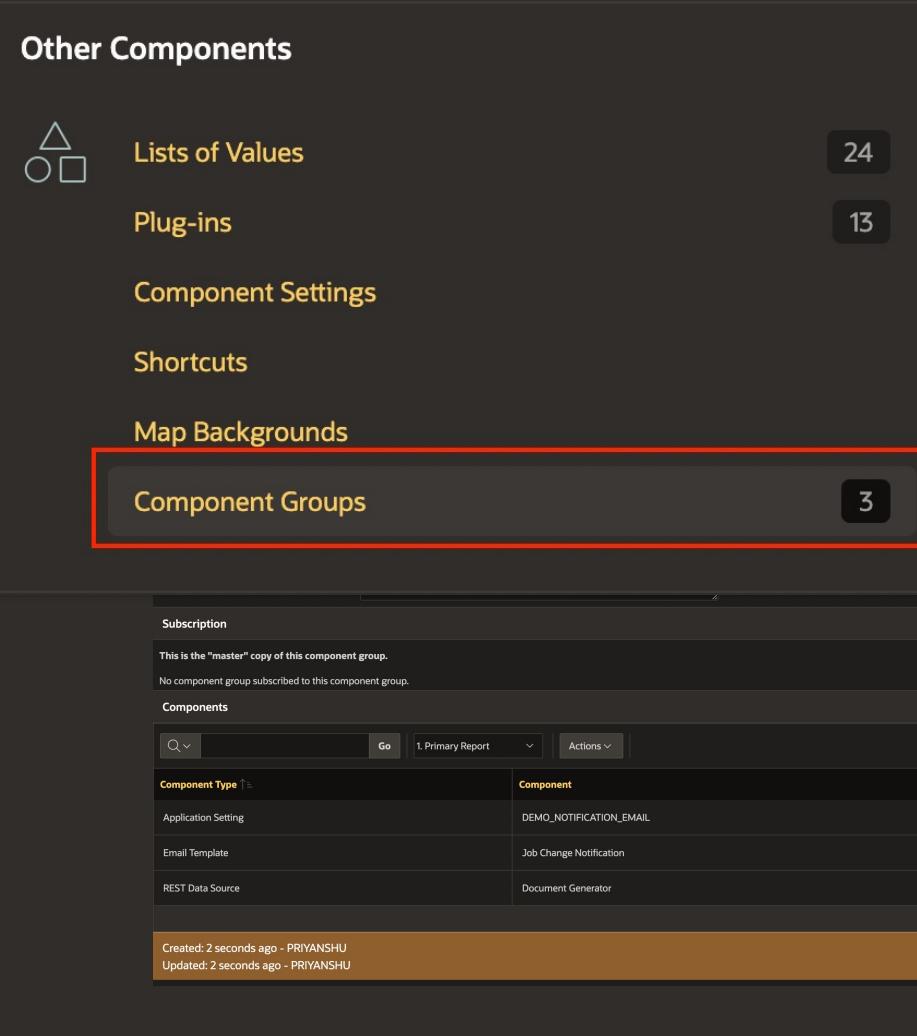
- **Web Credentials** of the **Basic** and **OAuth** type can now use a **Database Credential** to store the secret.
- Use **DBMS\_CREDENTIAL** or **DBMS\_CLOUD** packages to create such a credential.
- Configured at the Web Credential level. Components like REST Sources, APEX\_WEB\_SERVICE or REST Enabled SQL are unchanged.

# Developer Experience

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# Component Groups

## Other Components



The screenshot shows the 'Other Components' page in Oracle APEX. The 'Component Groups' section is highlighted with a red box. The page includes a sidebar with icons for Lists of Values, Plug-ins, Component Settings, and Shortcuts. The 'Component Groups' section has a count of 3. Below this, there is a 'Subscription' section and a 'Components' table. The 'Components' table has three rows: Application Setting (Component: DEMO\_NOTIFICATION\_EMAIL), Email Template (Component: Job Change Notification), and REST Data Source (Component: Document Generator). The table includes a 'Actions' column with delete icons.

Component Type	Component	Actions
Application Setting	DEMO_NOTIFICATION_EMAIL	
Email Template	Job Change Notification	
REST Data Source	Document Generator	

A new shared component, **Component Groups**. It is a collection of other shared components.

Allows you to easily copy, subscribe to, or refresh all components in the group with a single action.

All the shared components that support subscription can be added to a component group

# Improved Shared Components Subscriptions

APEX 23.2 added new subscription features to shared components, including setting subscribed components as read-only, automatic dependency resolution, a subscription status column, and bulk refresh or deletion of subscriptions.

Starting APEX 24.1, these features are now available on the following components:

- Lists
- Data Load Definitions
- REST Data Source
- Authentication Scheme
- Authorization Scheme
- List of Values
- Plug-ins
- Shortcuts
- Search Configurations

## Multi-Value Item Type Support and Custom Separators Support

The Shuttle, Select Many, Select List, Combo box, List Manager, and Popup LOV support a **custom separator character** for delimited list string values or a JSON array value.

Plug-in developers can add the same functionality to their own multivalued item plug-ins.

- New Custom Separator support for the Shuttle, Select List, Combo box, List Manager, and Popup LOV item types.
- Provides a generic solution to handle developer-defined separators for multi-value-based items, to prevent individual item implementations.

## Built-in Oracle TEXT Search functions

APEX\_SEARCH is now extended with two Oracle Text Query functions, **Search Engine** and **Expert Search**.

These functions enable advanced full text search features including fuzzy searching and proximity search.

You can access these functions programmatically with APEX\_SEARCH.QUERY\_SEARCH\_ENGINE and APEX\_SEARCH.QUERY\_EXPERT\_SEARCH.

# Readable Export Enhancements

Application Export has a readable/diffable version in YAML format. With APEX 24.1, we have extended this support to include:

## Export Individual Page in Readable Format

- Pages can now be exported in readable YAML format through the Export Page option in App Builder, or through sqlcl/command line. You can use this method to compare different versions of a page in a readable format.

## Improvements for better diff analysis

- Exporting in readable format will default "Original IDs" to Yes.

## Application level readable export-only export by setting 'Readable Format' switch to on.

## Include Audit Information in Readable exports

- This feature will allow developers to optionally include audit information in export files. Audit information options include None, Names and Dates, Dates Only.

# General Builder Improvements

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# Builder Extensions Enhancements

This feature enables APEX applications installed in a workspace, that is configured to host “Extensions”, to be invoked and used from other workspaces on the same instance.

The Extension application, if read-access is granted by the invoking workspace, to access the application meta-data (views) of that invoking workspace.

Feature overview:

- New Builder Extension Sign-in Authentication Scheme, which enables opening the Extension app from a Builder session without having to sign-in with username/password
- Publish Extension apps using the Extension Menu
- Workspaces can subscribe to Extension Menus from Extension Workspaces and invoke the Extensions published
- New API, that allows accessing repository data of workspaces, that have granted read access, to an Extension workspace in Automations or PL/SQL in APEX session context.

# Page Designer Improvements

Resizable icon picker modal dialog, for better usability.

New Name Attribute for Regions - similar to pages, regions now support both Name and Title attributes.

'Copy this Page' menu option - renamed menu option from 'Page as Copy', to be more intuitive, and streamlined the copy page wizard, by reducing the number of wizard steps.

New 'Show Processing' attribute added to page buttons when 'Submit Page' action is selected. This will help prevent users from double-clicking, and submitting the page twice.

New 'Alternative Label' attribute for Interactive Report columns, to use in dialogs and in various column heading placements. Use an alternative label when the heading contains extra formatting such as HTML tags.

New Template Option to hide empty values on Classic reports using templates "Value Attribute Pairs - Column" and "Contextual Info".

# App Builder Enhancements

## Spotlight Search Enhancements

- Search results are shown in categories; Results have their search term highlighted.

## Component Export/Import with Offsets

- To add support for importing and exporting components with offsets, in the development environment. With previous releases, this is only possible to do this on the command line.

## New process type "Server Side Geocoding"

- This feature introduces a new process type "Server Side Geocoding" to APEX ADB instances. This will allow users to perform server-side geocoding (turning a postal address to a coordinate) independently from the UI as well as automating their geocoding processes using Automations.

# Additional Updates & Enhancements

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# Translation of Runtime Messages into Ukrainian and Vietnamese

APEX now supports the translation of runtime messages into **Ukrainian** and **Vietnamese**, extending our language support to **34 languages**.

APEX supports the following languages: Arabic, Brazilian Portuguese, Croatian, Czech, Danish, Dutch, Finnish, French, French - Canada, German, Greek, Hebrew, Hungarian, Icelandic, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Portugal) (pt), Romanian, Russian, Serbian - Cyrillic, Serbian - Latin, Simplified Chinese, Slovak, Slovenian, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Ukrainian, and Vietnamese.

## Universal Theme Updates

Improved **Content-Security-Policy** for Universal Theme

## Redwood Light Enhancements

- Minor UI enhancements for Avatars, Badges, Combobox & LOV chips, File Drop Train (Wizard), Input focus styles, IG & IRR filter/chips and Page header

# Accessibility Improvements

## Improved read-only item state

- This feature introduces changes to support accessible rendering of read-only items.
- New APIs added, and the following native item types use it: Color Picker, Combobox, Date Picker, Number, Display Only, Popup LOV, Select List, Select One, Select Many, Switch Text, Textfield, Text with Autocomplete, and Textarea

## Accessibility-focused help text

- There are many attributes that are very important for accessibility. To simplify the process and emphasize the significance of these attributes, new accessibility-specific help text has been added to these attributes in Page Designer, aiming to better guide developers into creating accessible APEX apps.

Continuing from the work done in APEX 23.2 improving the development environment user experience for all users, APEX 24.1 further improves the developer experience when building APEX apps.

Numerous other accessibility-focused bug fixes.

# PL/SQL API Updates

## APEX\_APP\_OBJECT\_DEPENDENCY

- Analyse APEX applications and report all references to database objects by page and application using this new PL/SQL API.
- Allow APEX developers to have an overview, and run analysis, on all database objects their uses within each application.
- Report all used database objects by an application like tables, packages, procedures, functions, etc.
- For example, find all occurrences where a column of a table or view is used throughout an application.

## APEX\_AUTOMATION

- New TERMINATE function to terminate a currently executing automation, and now deprecating an existing function, ABORT.

## APEX\_EXEC

- New DESCRIBE\_QUERY function to describe columns and data types of a data source (Local, REST Source or REST Enabled SQL).

# PL/SQL API Updates

## **APEX\_INSTANCE\_ADMIN**

- New EXPIRE\_FND\_USER\_ACCOUNTS, MAX\_LOGIN\_FAILURES, and ACCOUNT\_LIFETIME\_DAYS parameters added to the list for use with SET\_WORKSPACE\_PARAMETER and GET\_WORKSPACE\_PARAMETER, to control account locking on runtime-only instances.
- New p\_grant\_apex\_privileges parameter added to the ADD\_SCHEMA procedure, when add a workspace schema.
- New CREATE\_OR\_UPDATE\_ADMIN\_USER procedure signature 2, accepting one parameter, p\_username. Create an instance administration user account (i.e. a user in the INTERNAL workspace). If the account already exists, unlock it. This creates or updates the account with a random password, which is not needed when the builder authentication is Database Accounts.

## **APEX\_PLUGIN\_UTIL**

- New PRINT\_READ\_ONLY API that handles the rendering of read-only items. This new API should be used instead of the existing apex\_plug\_util.print\_display\_only.

# JavaScript Library Upgrades

- Oracle JET 16.0.1
- FullCalendar 6.1.11
- Monaco Editor 0.47.0
- MarkedJS 12.0.1
- Less.js 4.2.0
- DOMPurify 3.1.2
- Terser 5.30.3
- Map Region: Upgrade Mapbox to MapLibre 4.0.1
- TinyMCE 6.8.3
- PrismJS 1.29.0
- csso 5.0.5
- cropperjs 1.6.1
- Turndown 7.1.3
- Font APEX 2.3
- Oracle Rich Text Library

# Oracle APEX Training and Certification

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# Oracle APEX Training & Certification

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## Training and Certifications

Explore the various training, certifications, and other resources below to level up your APEX expertise. Whether you are new to APEX, or looking to sharpen your skills, there is something for everyone.

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 Learn the fundamentals of low-code app dev with Oracle APEX

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# Become an Oracle APEX Professional

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**Soup-to-nuts** covering complete low-code app dev with Oracle APEX



**13** hours of expert training delivered by the APEX Product Team



**Hands-on-Labs** to practice along with the training videos

↑ Become an Oracle APEX Developer Professional - 2023

Learning Path Status Not Started

With this Oracle APEX Training, you prepare yourself to use a low-code development platform that enables you to build scalable, secure enterprise apps, with world-class features, that can be deployed anywhere.

Build modern, responsive web applications using only a browser and without the need to become specialized experts.

This Learning Path also prepares you for the Oracle APEX Cloud Developer Professional certification.

APEX LP Overview

ORACLE APEX

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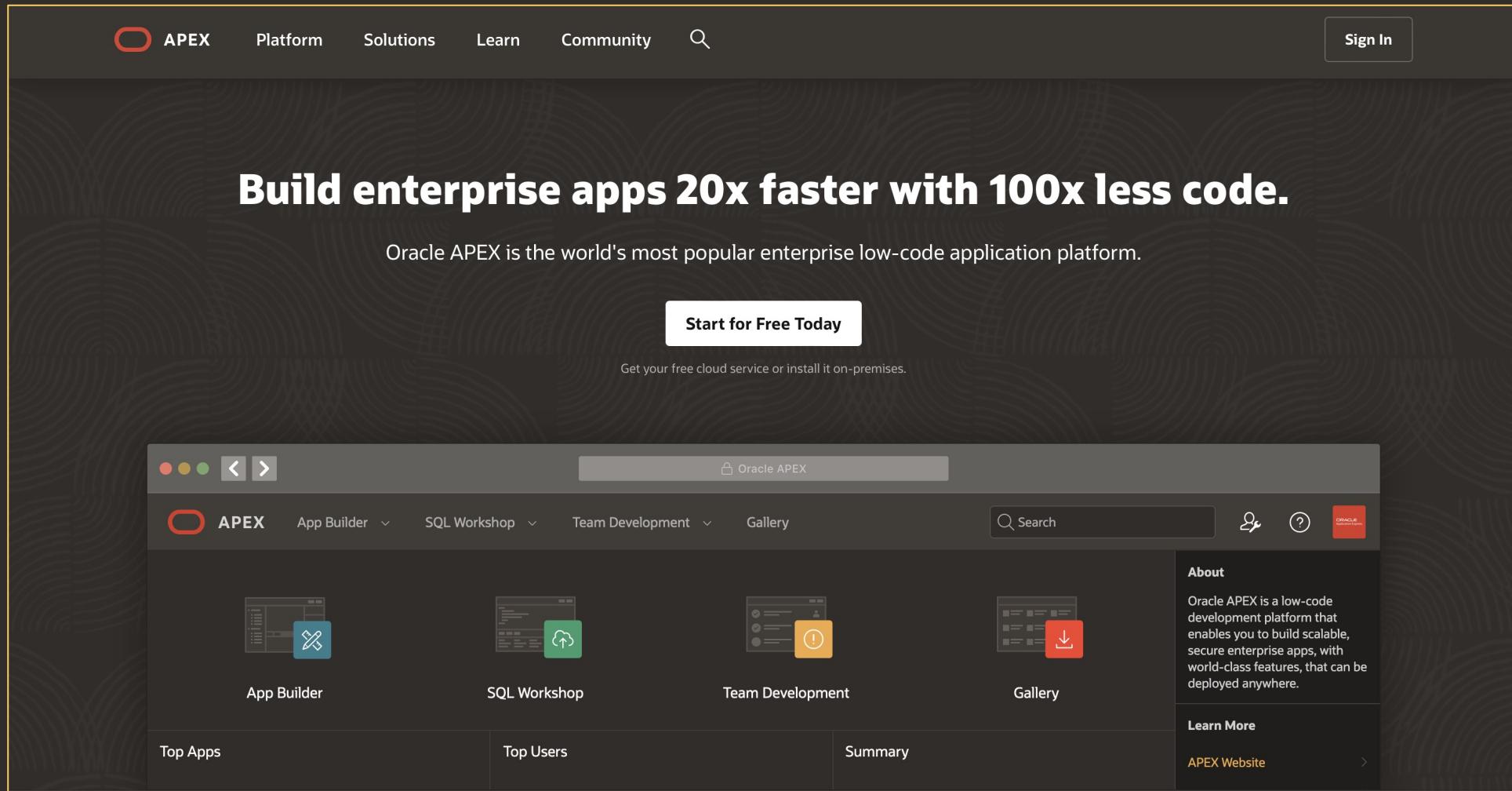
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# Everything about Oracle APEX

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The screenshot shows the Oracle APEX homepage. At the top, there is a navigation bar with the APEX logo, Platform, Solutions, Learn, Community, a search icon, and a Sign In button. The main headline reads "Build enterprise apps 20x faster with 100x less code." Below it, a sub-headline states "Oracle APEX is the world's most popular enterprise low-code application platform." A "Start for Free Today" button is prominently displayed. A note below the button says "Get your free cloud service or install it on-premises." The main content area features a screenshot of the Oracle APEX application interface, which includes a toolbar with icons for App Builder, SQL Workshop, Team Development, and Gallery, as well as a search bar and user profile icons. Below the toolbar, there are four main sections: App Builder, SQL Workshop, Team Development, and Gallery, each with a corresponding icon. At the bottom of the page, there are three navigation tabs: Top Apps, Top Users, and Summary. To the right of the interface, there is an "About" section with a description of Oracle APEX as a low-code development platform, and a "Learn More" section with a link to the APEX Website.

# Thank you

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Our mission is to help people see  
data in new ways, discover insights,  
unlock endless possibilities.

