

ORACLE

Low Code mit APEX 2026

Der Stand der Dinge

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Oracle APEX 26.1 – Release details



Release:

May 14, 2026

GA Release Date

271

Projects Completed

91

Committers in Git

APEX Engine:

3,155,587

Code-lines (excluding comments)

662,873

PL/SQL

264,461

Non-open-source JavaScript

465,723

SQL

36

Open-Source Licenses

APEX Tooling:

APEX

Low-Code Engine

ORDS

Mid-Tier Application Server

SQL Developer

VS Code Extension

SQLcl

Command Line Tool

Open Application Specification Language (APEXlang)

APEXlang ist eine offene, dokumentierte Sprache für APEX-Apps

Sample Maps Application

This application contains usage examples for the APEX Map Region.

Welcome to the **Sample Maps** Application. This application contains numerous examples which make use of the Map Region and Oracle Spatial, a feature which is included in every Oracle Database.

SAN FRANCISCO (SFO)

CALIFORNIA
Activation Date: Apr-40
Commercial Operations: 407153
Taxi Operations: 48646

CLICKABLE MAP

Visualize airport data using map markers.

SAN FRANCISCO INTL (SFO)

SAN FRANCISCO, CALIFORNIA
Activation Date: Apr-40
Commercial Operations: 407153
Taxi Operations: 48646

Search and Show

Search for an airport within an area on a map.

San Francisco Intl (SFO)

San Francisco, California

Norman Y Mineta San Jose Intl (SJC)

San Jose, California

Circle Search

http://localhost:7013/jords/r/cczarski/sample-maps/airports-map-circle-search?session=9351806391224

TeamBugsDevEnVAPEX CommunityToolsSpecsDocAPIsCurrent MRSAI-prompts/bluepri...MADC - Mid-Year...

Sample Maps

HomeClickable MapSearch and ShowFaceted SearchCircle SearchMap and ReportNearest Neighbor SearchHeat Map2D US States (flat)3D US States (extruded)US States with LinksUS States and Large AirportsLegacy Oracle Maps Plug-InLoad Full Dataset

DES MOINES INTL (DSM)

Large AirportsSearch CircleSmall Airports

About This PageReset

Chicago O'Hare Intl (ORD)
652,622 Operations

Dallas-Fort Worth Intl (DFW)
615,799 Operations

Denver Intl (DEN)
462,276 Operations

Minneapolis-St Paul Intl/Wold-Chamberlain (MSP)
372,138 Operations

George Bush Intercontinental/Houston (IAH)
362,947 Operations

Salt Lake City Intl (SLC)
231,232 Operations

Memphis Intl (MEM)
204,061 Operations

Chicago Midway Intl (MDW)
181,702 Operations

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APEXlang ist eine offene, dokumentierte Sprache für APEX-Apps

The screenshot displays the 'Export Application' dialog box within the APEX application environment. The dialog box is titled 'Application 103 \ Export' and features a navigation bar with tabs: Application, Page, Components, Themes, Plug-ins, UI Defaults, Feedback, Catalog, and Workspace. The 'Application' tab is selected, showing a table of applications and export options.

Export Application

Application	Name	Pages	Updated By	Updated	Owner
103	Sample Maps	17			CCZARSKI

Format: ☐ SQL ☒ **APEXlang** (?)

Type: ☒ **Standard Export** (?)
Default option, recommended for source control; includes developer metadata.

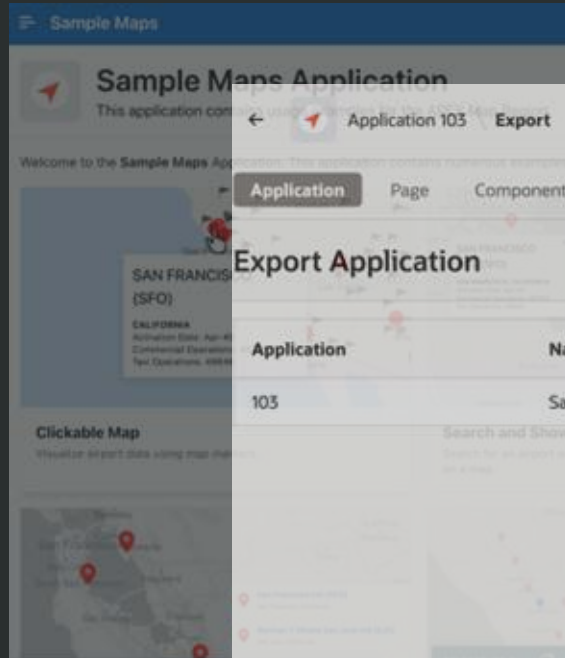
☐ **Runtime Export**
For runtime environments; omits developer metadata and sets build status to Run Application Only.

☐ **Full Export**
Full export including developer metadata, workflow and task activity, and saved private and public reports.

☐ **Custom Export**
Choose which options to include.

Buttons: Reset, Export

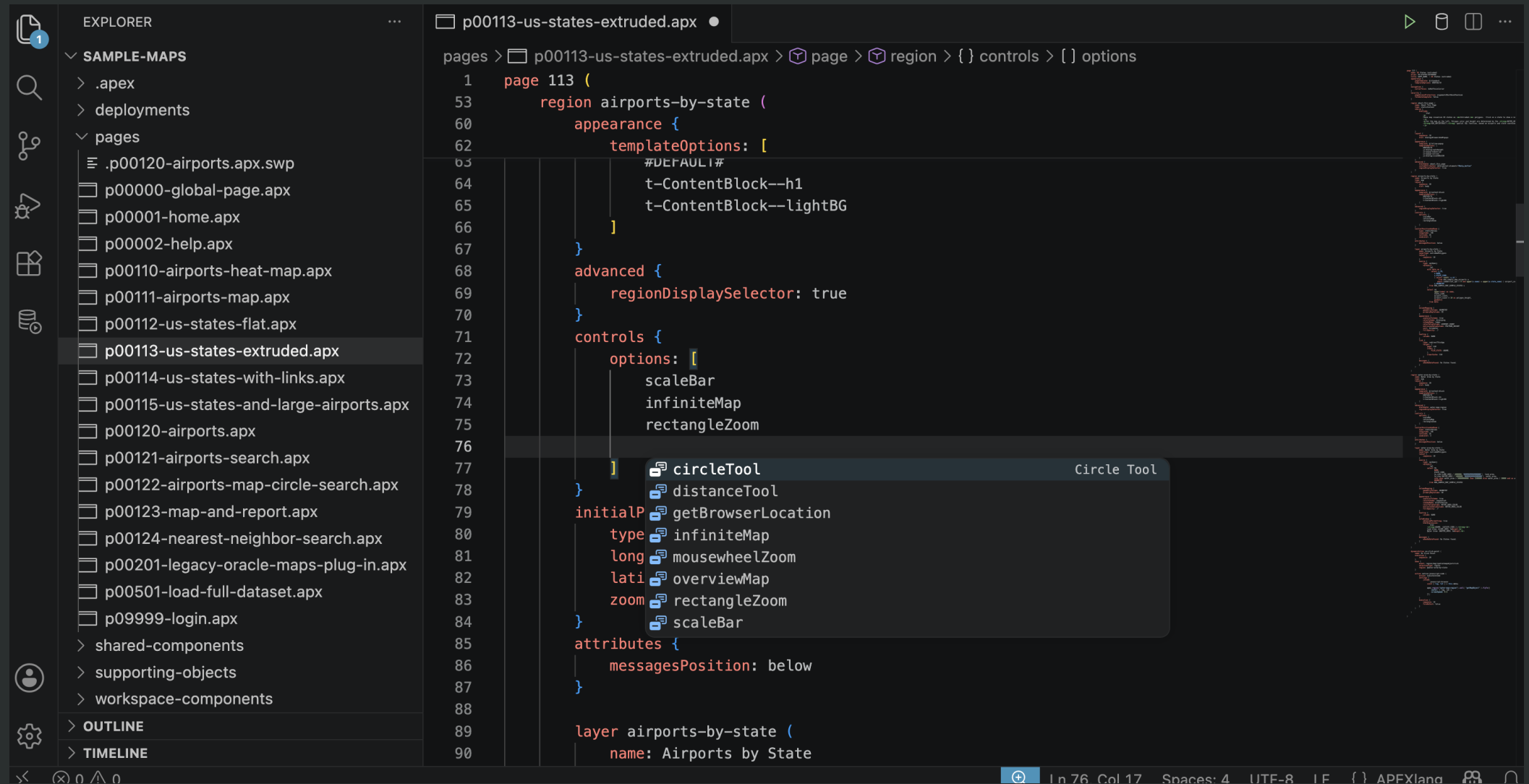
APEXlang ist eine offene, dokumentierte Sprache für APEX-Apps



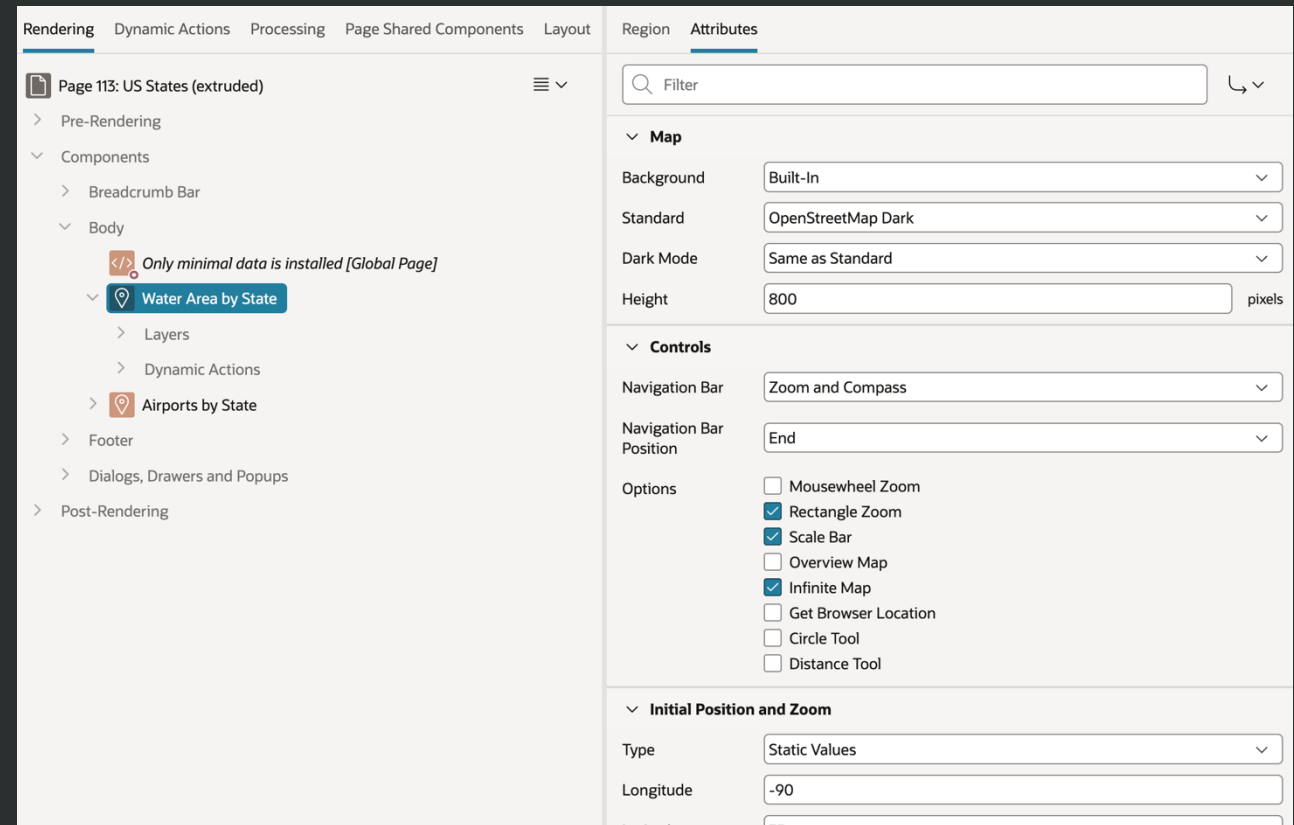
```
p00113-us-states-extruded.apx (~/Desktop/sample-maps/pages) - VIM
78  initialPositionAndZoom {
79      type: staticValues
80      longitude: -90
81      latitude: 35
82      zoomLevel: 3
83  }
84  attributes {
85      messagesPosition: below
86  }
87
88  layer airports-by-state {
89      name: Airports by State
90      layerType: extrudedPolygons
91      layout {
92          sequence: 10
93      }
94      source {
95          type: sqlQuery
96          sqlQuery:
97              ```sql
98              with data as (
99                  select s.ID,
100                     s.NAME,
101                     s.STATE_CODE,
102                     ( select count( a.id )
103                       from eba_sample_map_airports a
104                       where commercial_ops > 0 and upper(s.name) = upper(a.state_name) ) airport_count,
105                     s.GEOMETRY
106                  from EBA_SAMPLE_MAP_SIMPLE_STATES s
107                )
108              select id,
109                     upper(name) as name,
110                     state_code,
111                     airport_count,
112                     airport_count * 10 as polygon_height,
113                     geometry
114              from data
115              ```
116      }
117      columnMapping {
118          geometryColumn: GEOMETRY
119          primaryKeyColumn: ID
120      }
```



Umfassende Unterstützung in Oracle SQL Dev for VSCode



Wer Page Designer kennt, kennt auch APEXlang



Wer Page Designer kennt, kennt auch APEXlang

The screenshot displays the APEXlang IDE interface. On the left is the **EXPLORER** panel showing a project named **SAMPLE-MAPS** with various map-related files. The main editor shows the file **p00113-us-states-extruded.apx** with the following APEXlang code:

```
1  page 113 (  
2    region water-area-by-state (  
3      name: Water Area by State  
4      type: map  
5      layout { ...  
6    }  
7  }  
8  appearance { ...  
9  }  
10 advanced {  
11   htmlDomId: water-map-region  
12   regionDisplaySelector: true  
13 }  
14 map {  
15   background: builtIn  
16   standard: openstreetmapDark  
17   height: 800  
18 }  
19 controls {  
20   options: [  
21     scaleBar  
22     infiniteMap  
23     rectangleZoom  
24   ]  
25 }  
26 }  
27 }  
28 }  
29 }  
30 }  
31 }  
32 }  
33 }  
34 }  
35 }  
36 }  
37 }  
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93 }  
94 }  
95 }  
96 }  
97 }  
98 }  
99 }  
100 }
```

On the right, the **Attributes** panel is open, showing settings for the map. The **Map** section includes:

- Background:** Built-In
- Standard:** OpenStreetMap Dark
- Mode:** Same as Standard
- Height:** 800 pixels

The **Controls** section includes:

- Navigation Bar:** Zoom and Compass
- Navigation Bar Position:** End
- Options:** Mousewheel Zoom, Rectangle Zoom (checked), Scale Bar (checked), Overview Map, Infinite Map (checked), Get Browser Location, Circle Tool, Distance Tool

The **Initial Position and Zoom** section includes:

- Static Values:** Static Values
- Latitude:** -90
- Longitude:** -90
- Zoom Level:** 3

DEMO



Umfassende Unterstützung in Oracle SQLcl

Command	Description
<code>help apex</code>	Shows help about all commands and options
<code>apex list</code>	List all APEX apps in your schema
<code>apex export</code>	Exports an APEX app to SQL or APEXLang
<code>apex import</code>	Imports APEXLang or SQL input
<code>apex validate (new)</code>	Validates that APEXLang input can be compiled
<code>apex generate (new)</code>	Generates an empty starter app

AI Support in APEX 26.1: Agentic AI

APEX 24.1: Initialer AI Support

- AI Services
- APEX Assistent im Builder
- AI Assistent Dynamic Action
- APEX_AI Package

- AI Configurations
- Vector Providers
- RAG Sources
- Generate Text Process
- Declarative Vector Search

APEX 24.2: RAG, Vector

APEX 26.1: AI Agents

- AI Agents und Tools
- Mehr AI Provider unterstützt
- Create Page with AI
- AI for Interactive Reports



Unterstützung für AI Provider in APEX 26.1

←

Workspace Utilities

Generative AI Services

Create/Edit

Generative AI Service

CancelCreate

Show All

Identification

Identification

* AI Provider

* Name

✓ - Select -

OCI Generative AI Service

OpenAI

Cohere

Google Gemini

Anthropic Claude

Mistral AI

Ollama

Generic (OpenAI API Compatible)

?



AI Agents und Tools in APEX 26.1

Help! How can I help you?

Generative AI Agent

CancelDeleteApply Changes

Show AllIdentificationSubscriptionGenerative AIToolsResponse FormatAdvancedComments

Tools

?

Add Tool

Augment System Prompt

Name	Type	Executes on	Conditional	Updated	Updated By
include_current_date_and_time	Execute Client-side Code	Client-side		6 weeks ago	STEFAN
include_static_data	Retrieve Data	Server-side			
include_table_details_asp	Retrieve Data	Server-side			

1 - 3

On Demand

Name	Type	Execution Location	Shows Notification	Conditional	Updated	Updated By
ask_user_for_confirmation	Execute Client-side Code	Client-side				
do_the_other_thing	Execute Server-side Code	Server-side	Yes			
do_the_thing	Execute Server-side Code	Server-side	Yes			
do_the_third_thing	Execute Server-side Code	Server-side	Yes			
get_application_pages	Retrieve Data	Server-side				
get_applications	Retrieve Data	Server-side				
get_current_location	Execute Client-side Code	Client-side				
get_weather	Get Weather	Server-side				



AI Tool Calling: Agentic Loop

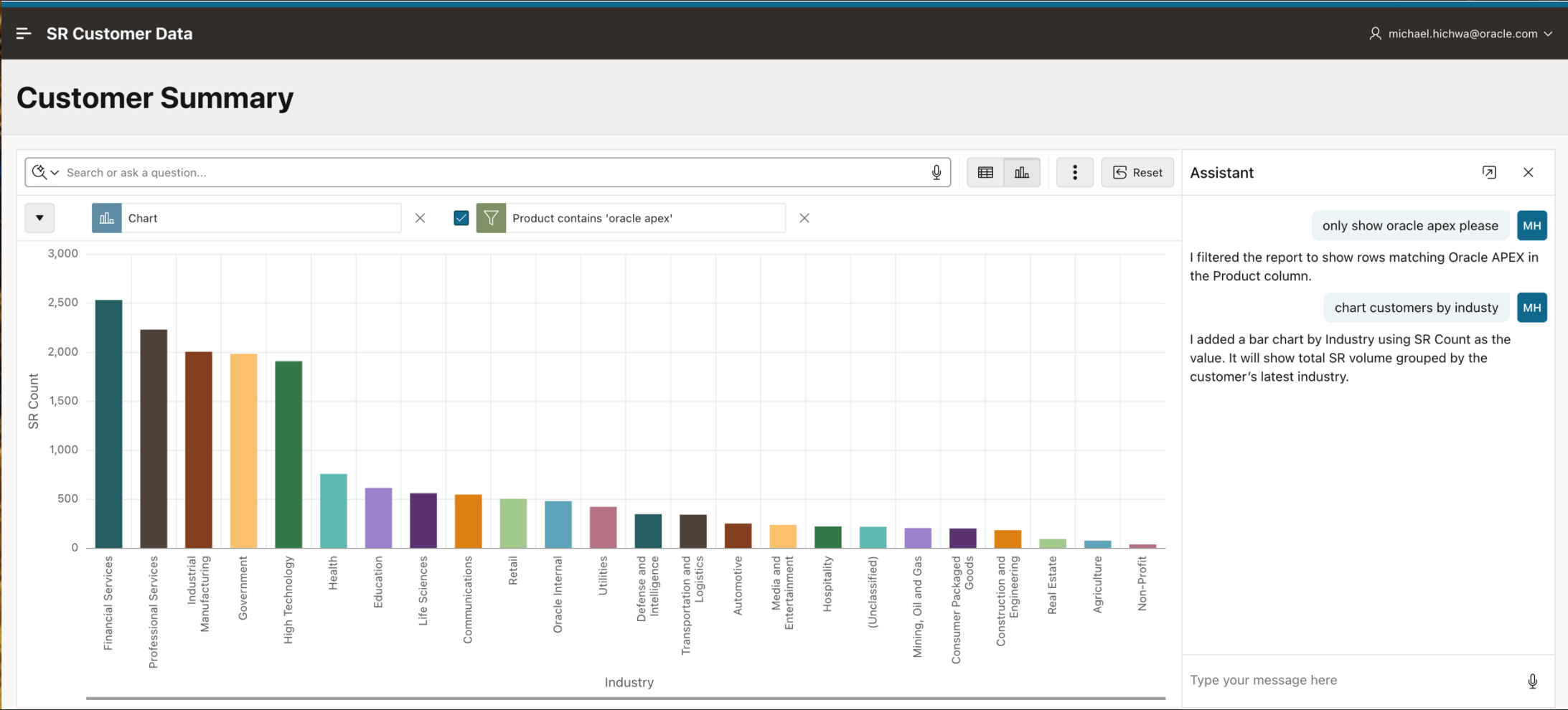


D E M O

APEX 26.1 New Features: Interactive Reports

- Natural Language-Support für Interactive Reports
- Declarative Row Selector
- Dynamic Action: Open IR Actions Menu
- Kein 32K Limit mehr.
- **Maximum Rows to Display** Attribut
- CSS Classes für Report Columns

Interactive Report: Natural Language Support



Interactive Report: Declarative Row Selector

New Features

fsecara

Declarative Row Selection

Standard IR - Multi Selection

Standard IR - Single Selection

Standard IR - Hide Control

IR Detail View - Multi Selection

Detail View Multi Selection

100288:100291

Q

Search

Actions

☒	JSB Johann Sebastian Bach Gender: Male, Born: 1685, Died: 1750	30.167197
☐	LVB Ludwig van Beethoven Gender: Male, Born: 1770, Died: 1827	30.109331
☐	CVO Cleopatra VII of Egypt Gender: Female, Born: -69, Died: -30	30.036677
☒	GG Galileo Galilei Gender: Male, Born: 1564, Died: 1642	29.96003

Data Reporter

- Ad-Hoc Reporting für Nicht-Entwickler.
- Data Reporter Admin erstellt vordefinierte Datasets.
- Data Reporter Editor erstellt Reporting-Apps – ohne Page Designer oder App Builder.
- Reports stehen sofort bereit.

 **Enable Generative AI**
Accelerate development with AI-assisted coding, debugging, and app generation. [Learn More...](#)

Enable AI 

Welcome to Data Reporter

Data Reporter makes it easy to create reporting applications based on the data in your schema without the overhead of full application development.

To get started, first create a dataset by grouping related tables or views. Then, use that dataset to build a reporting application and define the reports you need.





Create Dataset

Group related tables and views into a reusable dataset for reporting.

[Manage Datasets](#)



Create a Reporting Application

Build an application to generate and manage reports based on a defined dataset.

[Create Application](#) [Import](#)

Data Reporter

Configure Display Options and Facets

*

Title

ENAME (VARCHAR2)

Description

JOB (VARCHAR2)

Overline

- Select -

Miscellaneous

SAL (NUMBER)

*

Order By Column

ENAME (VARCHAR2)

Column	Label	Display	Facet	Format Mask
EMPNO NUMBER	Empno	☒	☐	
ENAME VARCHAR2	Ename	☒	☐	
JOB VARCHAR2	Job	☒	☒	
MGR VARCHAR2	Mgr	☒	☐	
HIREDATE DATE	Hiredate	☒	☐	
SAL NUMBER	Sal	☒	☒	
COMM NUMBER	Comm	☒	☐	
DEPTNO NUMBER	Deptno	☒	☐	
DNAME VARCHAR2	Dname	☒	☒	
LOC VARCHAR2	Loc	☒	☐	

< Cancel

Create Report



Data Reporter

Configure Display Options and Facets

Title

ENAME (VARCHAR2)

Description

JOB (VARCHAR2)

Overline

- Select -

Miscellaneous

SAL (NUMBER)

Order By Column

ENAME (VARCHAR2)

Column	Label
EMPNO NUMBER	Empno
ENAME VARCHAR2	Ename
JOB VARCHAR2	Job
MGR VARCHAR2	Mgr
HIREDATE DATE	Hiredate
SAL NUMBER	Sal
COMM NUMBER	Comm
DEPTNO NUMBER	Deptno
DNAME VARCHAR2	Dname

< EMP Unpublished

Q Search...

▽

Total Row Count 14

↓ Ename ▾

Job

☐ CLERK (4)

☐ SALESMAN (4)

☐ MANAGER (3)

☒ ANALYST (2)

☐ PRESIDENT (1)

Dname

☐ SALES (6)

☐ RESEARCH (5)

☐ ACCOUNTING (3)

ADAMS

CLERK

1100

ALLEN

SALESMAN

1600

BLAKE

MANAGER

2850

CLARK

MANAGER

2450

FORD

ANALYST

3000

JAMES

CLERK

950



APEX 26.1 New Features: Map Region und andere Komponenten

- **Vector Tile Layer Support** (basiert auf SDO_UTIL.GET_VECTORTILE)
- Map Region: Deklarative Map Bounding Box
- **Faceted Search**: Allow to Exclude
- Vereinfachte Dynamic Actions für Buttons, Menus & Co: Trigger Actions
- **Neue Dynamic Actions**: Show Messages, Clear Errors
- **SQL-Based Quick Picks**
- **Boolean** Data Type Support



APEX 26.1 New Features: REST

- OData REST Source Type: DML Support
- Dynamic Defaults for REST Parameters
- Template Directive-Unterstützung für Request Body
- Dynamic Scope für OAuth Web Credentials
- Unterstützung für OAuth Refresh Tokens
- Neue Web Credential Typen
- Unlimited Attributes für REST Plug-Ins



APEX 26.1 Neue Web Credential Types



Web Credentials

Cancel>Create

Show AllAttributesAdvanced

Attributes

NameMy Credential?

Static IDmy-credential?

Authentication Type

Basic AuthenticationOAuth2 Client CredentialsOCI Native AuthenticationHTTP Header

Use Database Credential

Client ID or UsernameURL Query StringOAuth2 Password flow

Client Secret or Password

Verify Client Secret or PasswordSigned User AssertionUser Assertion Signing CertificateKey Pair

Valid for URLs

Note that changing this value requires re-entering the client secret.

Advanced

Prompt On Install

?

Comments

Authentication Type

Specify the authentication type here. Oracle APEX supports the following authentication types:

Basic Authentication

OAuth2 Client Credentials

OCI Native Authentication

HTTP Header

URL Query String

OAuth2 Password Flow

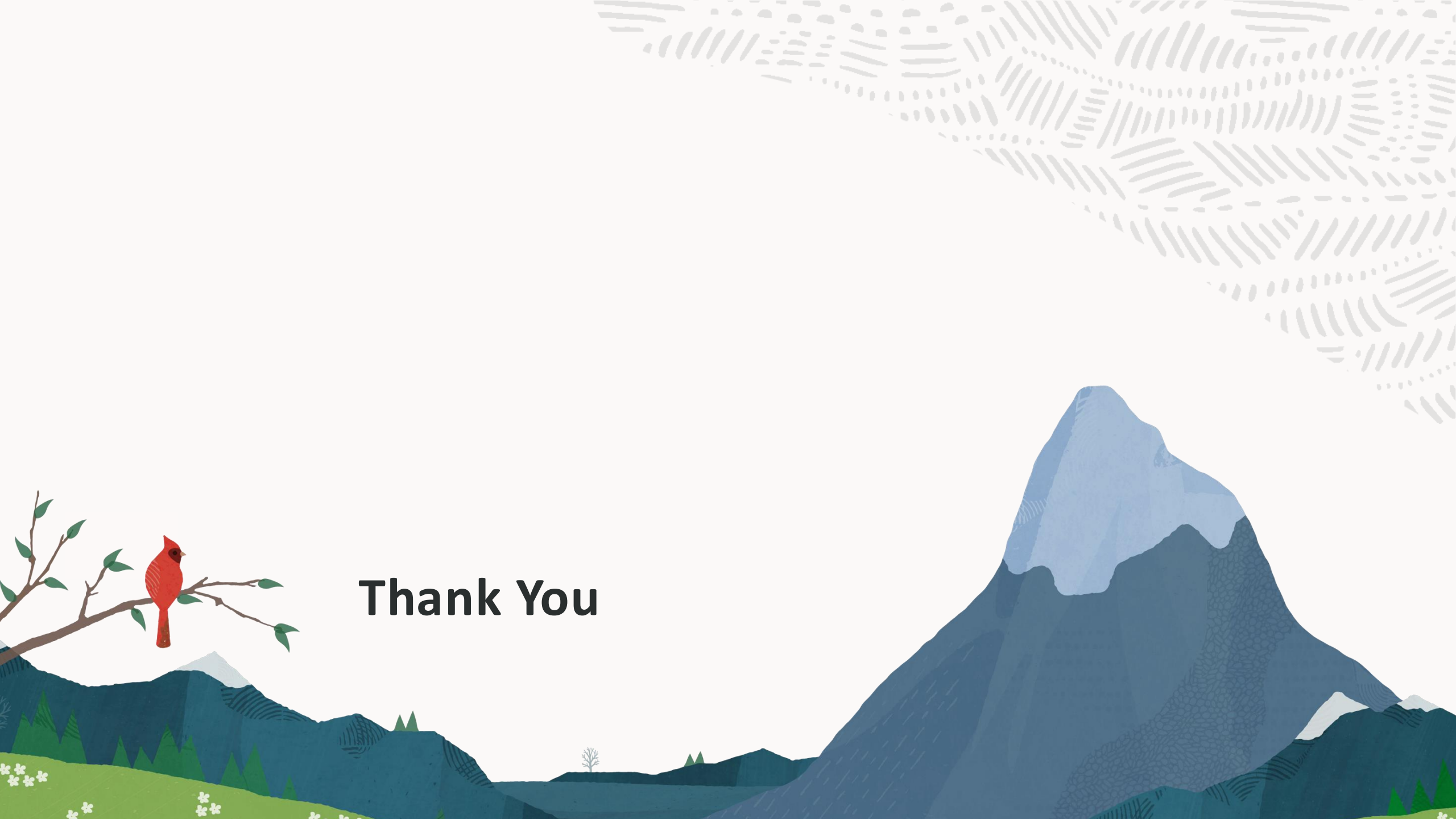
Signed User Assertion

User Assertion Signing Certificate

Key Pair

APEX 26.1 Weitere Neue Features

- Page Designer: Run from Global Page
- Built-In Sample Data für "UI-First" Development
- Text-Message-Basierte Übersetzungen
- SMTP Credentials auf Workspace Ebene
- Content-Security-Policy (CSP) Verbesserungen
Eliminiert Bedarf für **unsafe-inline** und **unsafe-hashes** bei modernen Komponenten
- Workflow Enhancements: Parallel Flows, Multi-Tenancy
- ... und so viel mehr ...



Thank You

ORACLE

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

