

# Az APEX 22.1 újdonságai

HOUG szakmai nap  
2022. november 30.

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# APEX fejlesztői csapat

**„Build enterprise apps 20x faster with 100x less code”**

**„Oracle APEX is the world's most popular enterprise low-code application”**

	Oracle cloud	apex.oracle.com
Workspace	5 700	52 000
Active app	7 200	28 000
Page view	39 000 000	48 000 000

\*2022 április

# APEX fejlesztői csapat



# APEX fejlesztői csapat



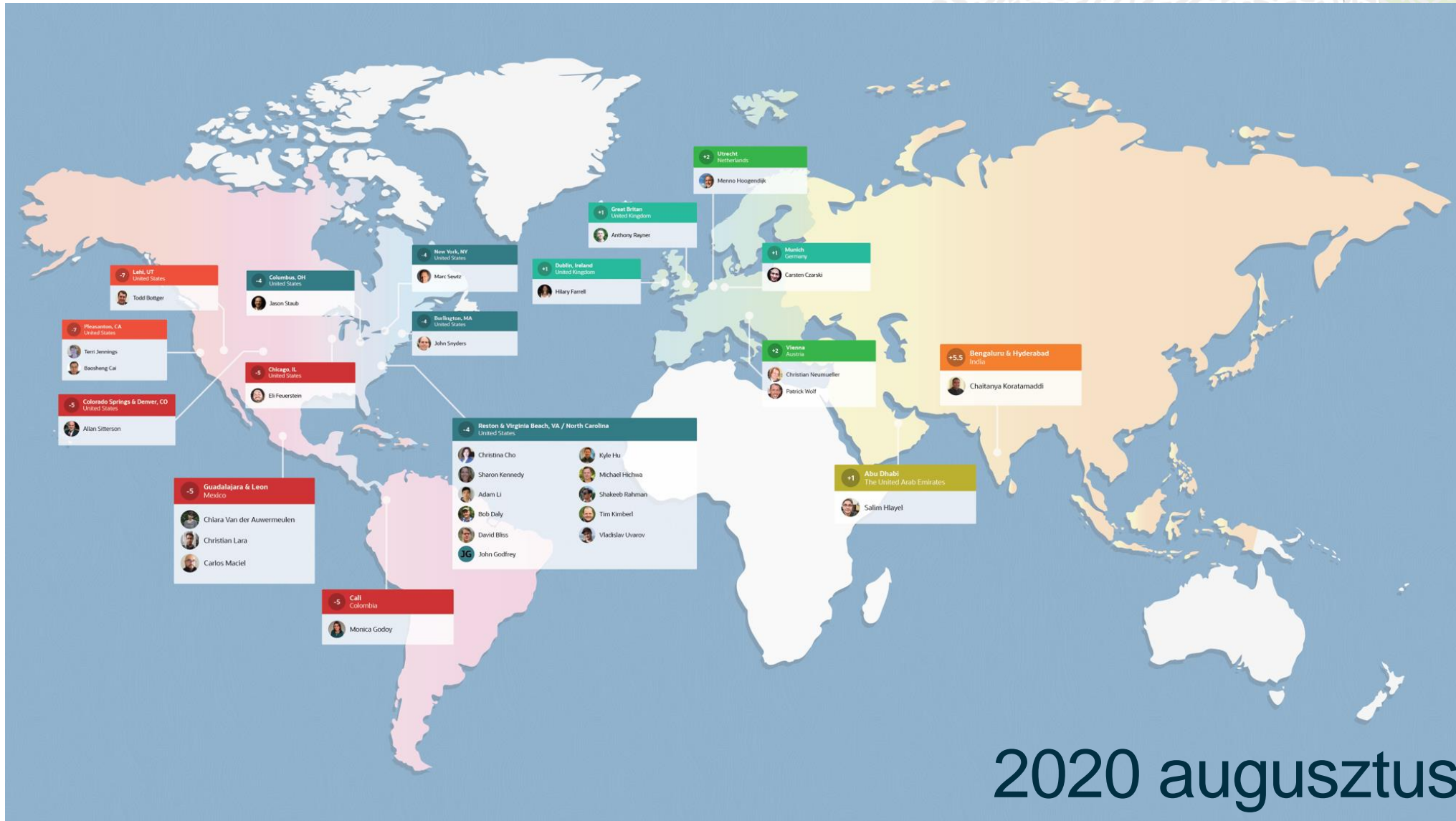
**Built-in PDF Printing**

- Interactive Grid Downloads now includes native PDF Printing
- Enable in the Interactive Grid region attributes

Item	Item Code	Item Name	Manager	Category	Status
ITEM 000001	ITEM 000001	ITEM 000001	ITEM 000001	ITEM 000001	ITEM 000001
ITEM 000002	ITEM 000002	ITEM 000002	ITEM 000002	ITEM 000002	ITEM 000002
ITEM 000003	ITEM 000003	ITEM 000003	ITEM 000003	ITEM 000003	ITEM 000003
ITEM 000004	ITEM 000004	ITEM 000004	ITEM 000004	ITEM 000004	ITEM 000004
ITEM 000005	ITEM 000005	ITEM 000005	ITEM 000005	ITEM 000005	ITEM 000005
ITEM 000006	ITEM 000006	ITEM 000006	ITEM 000006	ITEM 000006	ITEM 000006
ITEM 000007	ITEM 000007	ITEM 000007	ITEM 000007	ITEM 000007	ITEM 000007
ITEM 000008	ITEM 000008	ITEM 000008	ITEM 000008	ITEM 000008	ITEM 000008
ITEM 000009	ITEM 000009	ITEM 000009	ITEM 000009	ITEM 000009	ITEM 000009
ITEM 000010	ITEM 000010	ITEM 000010	ITEM 000010	ITEM 000010	ITEM 000010

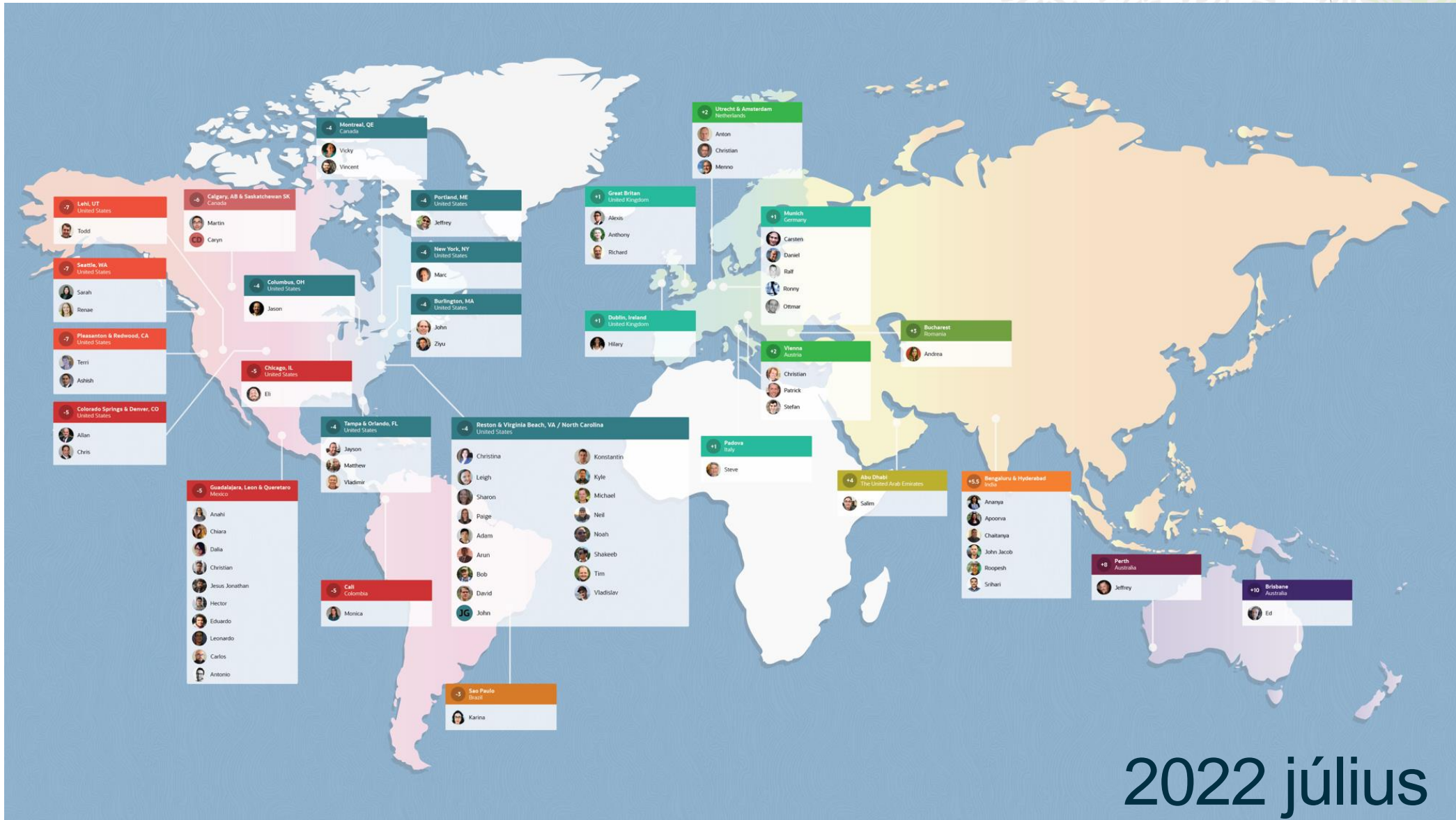
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# APEX fejlesztői csapat



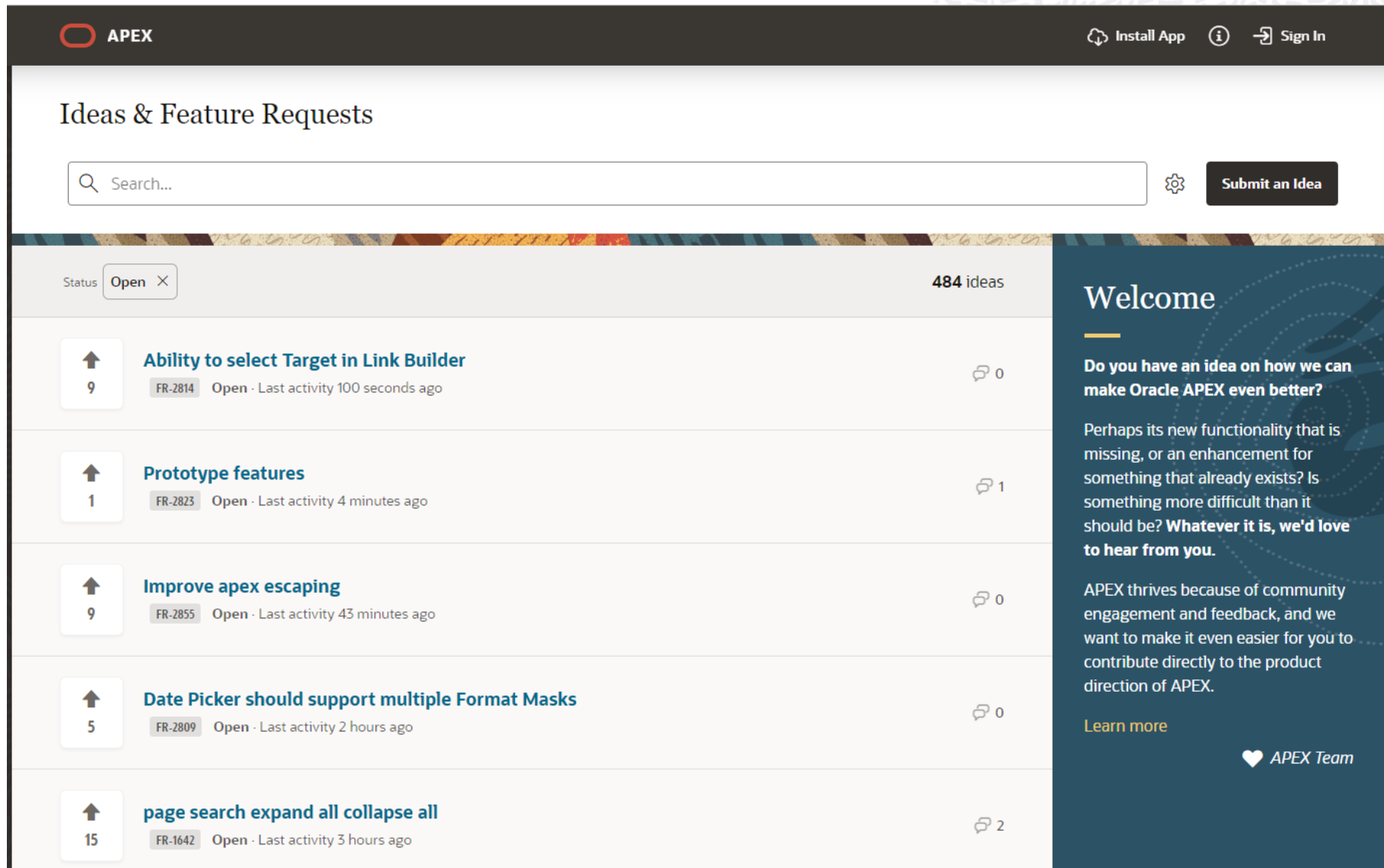
2020 augusztus

# APEX fejlesztői csapat



2022 július

# APEX fejlesztői csapat



The screenshot shows the APEX Ideas & Feature Requests interface. At the top, there's a navigation bar with the APEX logo, 'Install App', 'Sign In', and a settings gear. Below is a search bar and a 'Submit an Idea' button. The main content area is titled 'Ideas & Feature Requests' and shows a list of ideas. A 'Status' filter is set to 'Open', and there are 484 ideas in total. The list includes:

- Ability to select Target in Link Builder** (FR-2814) - 9 votes, Open, Last activity 100 seconds ago, 0 comments.
- Prototype features** (FR-2823) - 1 vote, Open, Last activity 4 minutes ago, 1 comment.
- Improve apex escaping** (FR-2855) - 9 votes, Open, Last activity 43 minutes ago, 0 comments.
- Date Picker should support multiple Format Masks** (FR-2809) - 5 votes, Open, Last activity 2 hours ago, 0 comments.
- page search expand all collapse all** (FR-1642) - 15 votes, Open, Last activity 3 hours ago, 2 comments.

On the right side, there is a 'Welcome' message from the APEX Team:

**Welcome**

Do you have an idea on how we can make Oracle APEX even better?

Perhaps its new functionality that is missing, or an enhancement for something that already exists? Is something more difficult than it should be? **Whatever it is, we'd love to hear from you.**

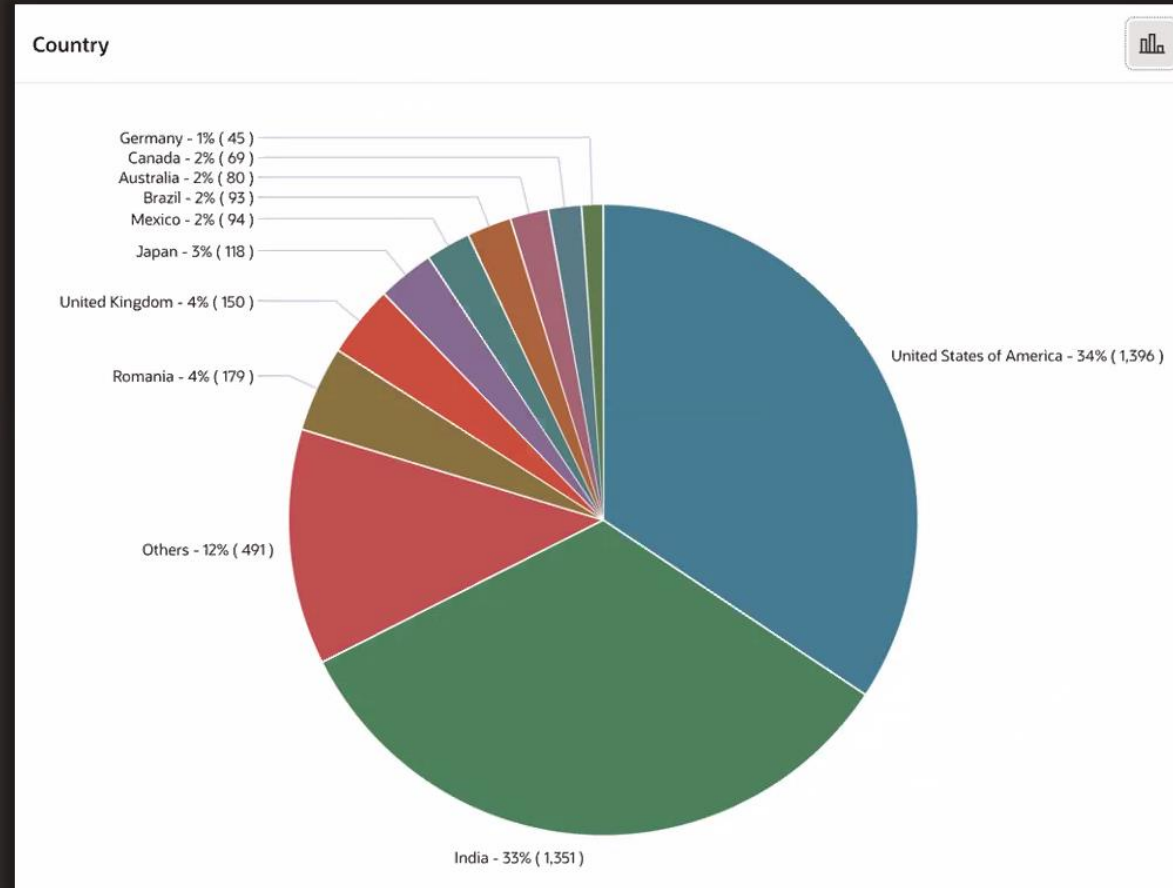
APEX thrives because of community engagement and feedback, and we want to make it even easier for you to contribute directly to the product direction of APEX.

[Learn more](#)

♥ APEX Team

# APEX felhasználók

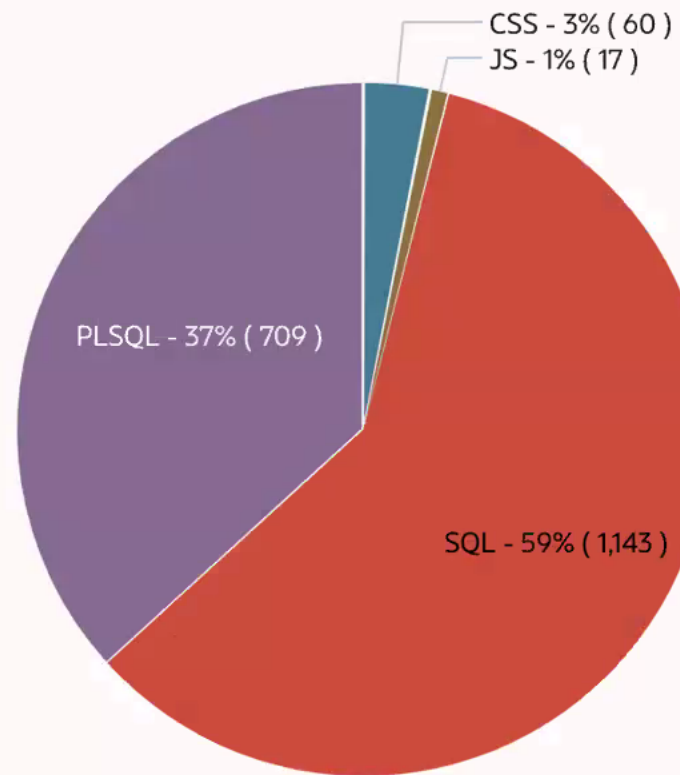
- 17% EMEA
- 42% AMER
- 41% JAPAC





# Technológiák

1. SQL
2. PL/SQL
3. CSS
4. JS
5. HTML



# Rólam

**20+**

Business IT fejlesztés

**15+**

Év Oracle adatbázis fejlesztés

**12+**

Év low code fejlesztés



**14 fő**

Enrol Consulting Kft.



**Oktatás**

sqlme.hu,  
youtube.com/sqlme



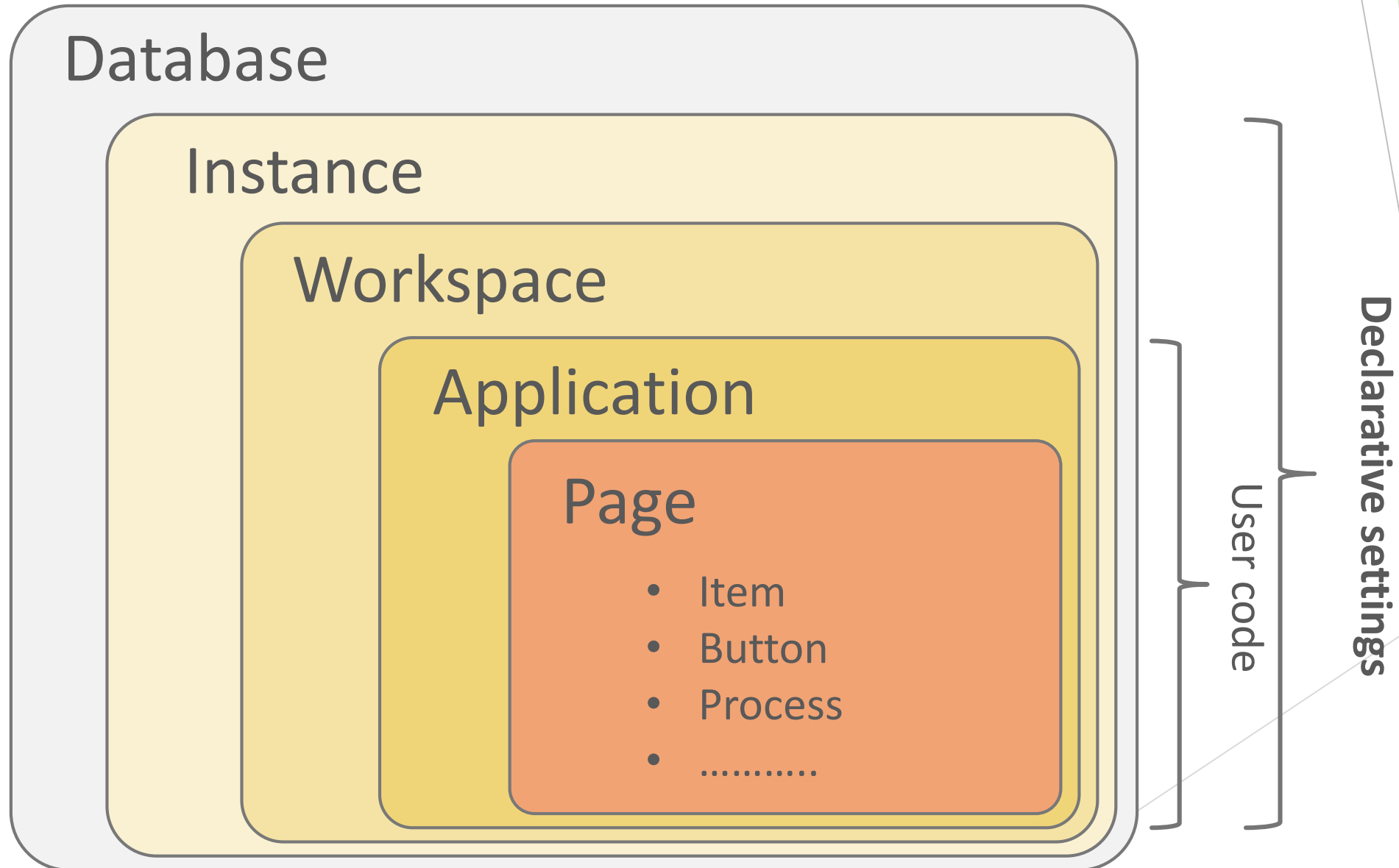
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# Architektúra



# Deklaratív eljárás hívás

The screenshot displays the Oracle APEX Page Designer interface for configuring a declarative process call. The main workspace shows a dialog titled "Add/Edit Employee" with a content body containing several input items: P7\_NAME, P7\_DOB, P7\_SALARY, P7\_LOCATION, and P7\_ACTIVE. The "Processing" tab is active, showing a tree view of the process "Process form Add/Edit Employee" with its parameters listed: p\_id, p\_name, p\_dob, p\_salary, p\_location (highlighted), p\_active, and p\_address.

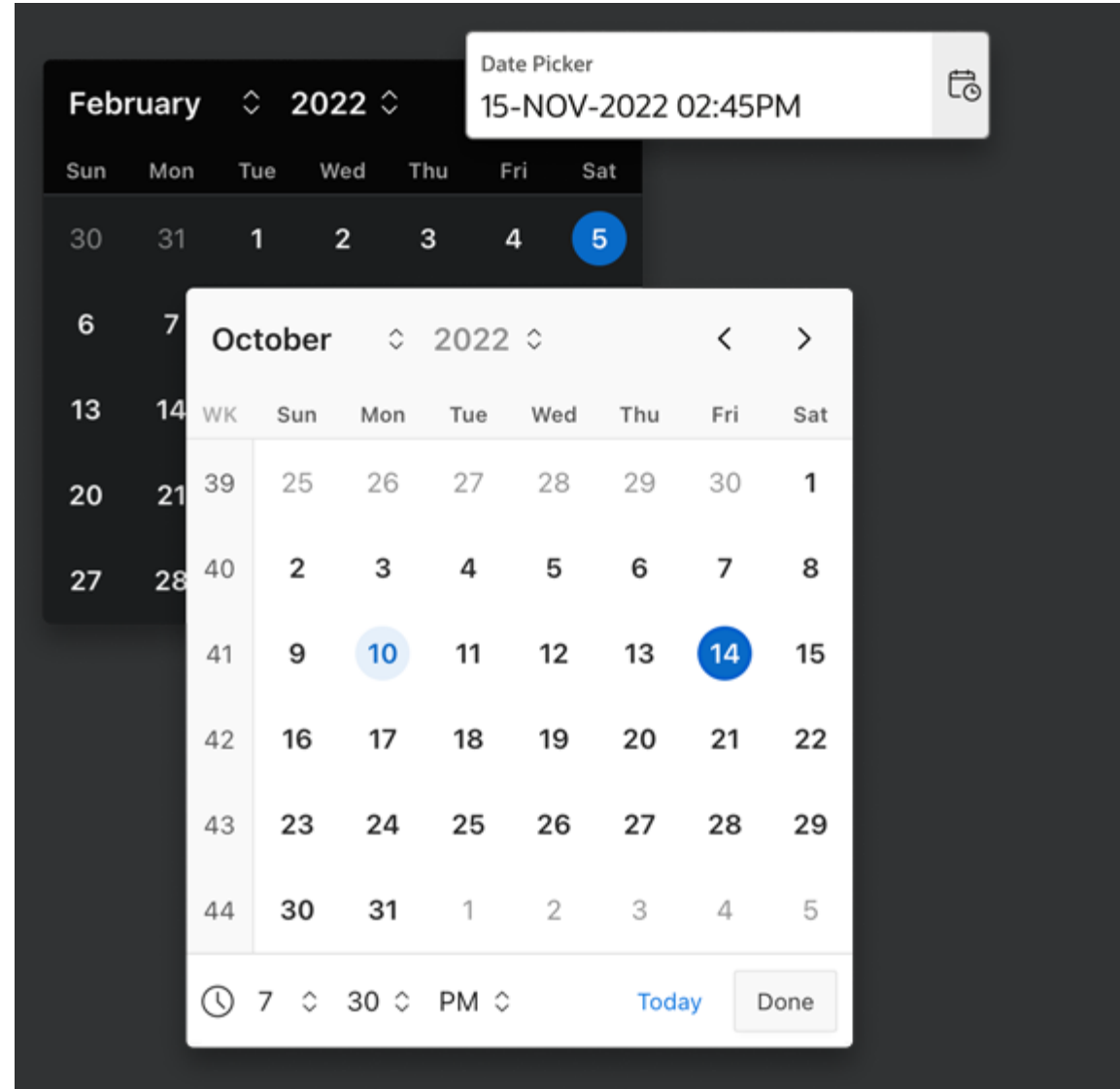
The right-hand "Parameter" configuration panel is expanded for the parameter "p\_location". The configuration details are as follows:

- Identification:** Name: p\_location
- Parameter:** Direction: Out, Data Type: VARCHAR2, Ignore Output:
- Value:** Item: P7\_LOCATION
- Advanced:** Display Sequence: 50
- Comments:** (Empty field)
- Audit Information:** (Empty field)

At the bottom of the interface, there is a "Regions" tab and a "Items" tab, along with a "Buttons" section containing various UI components like Breadcrumb, Calendar, Cards, Chart, Classic Report, Column Toggle Report, Dynamic Content, Faceted Search, Form, and Help Text.

MORE VIDEOS

# Új date picker



# Dynamic Content Region

The screenshot shows an IDE interface with a dark theme. On the left, there is an 'Object Browser' pane with a search bar and a tree view showing 'F\_MOVIES' selected. The main editor area is titled 'F\_MOVIES' and contains a code editor with the following PL/SQL code:

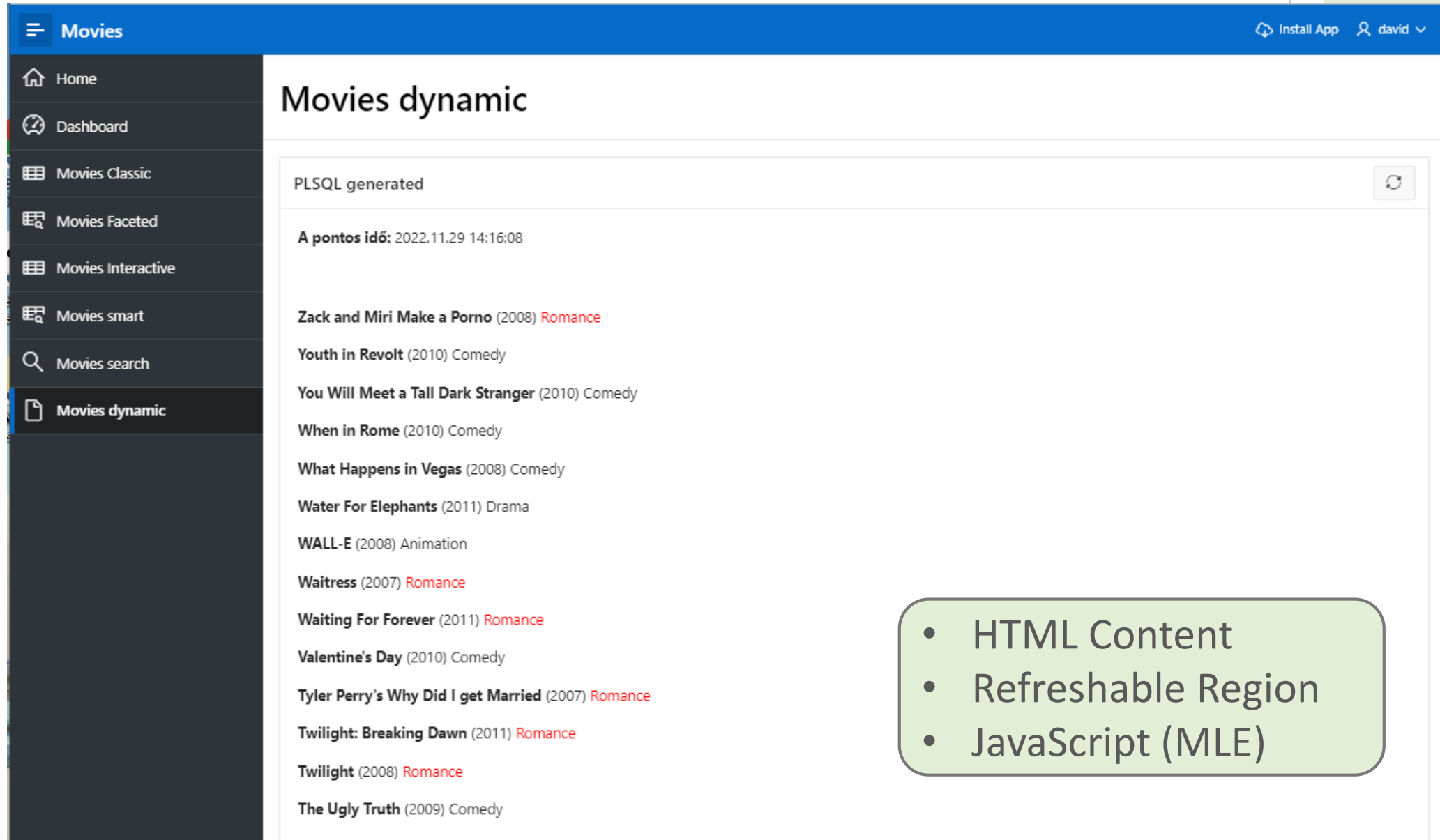
```
1 create or replace function f_movies return clob as
2 v_clob clob;
3 begin
4   v_clob:='

<b>A pontos idő: </b>' || to_char(localtimestamp,'YYYY.MM.DD HH24:MI:SS') || '</p><br><br>';
5   for v_cur in (select film, year, genre from movies t) loop
6     v_clob:=v_clob || '<p><b>' || v_cur.film || '</b> (' || v_cur.year || ') ' ||
7     case when v_cur.genre='Romance' then '<span style="color:red">' || v_cur.genre || '</span>' else v_cur.genre end || ' </p>';
8   end loop;
9   return v_clob;
10 end;
11


```

Below the code editor, there are buttons for 'Save & Compile', 'Download Source', and 'Drop'. The interface also includes a 'Schema' dropdown menu set to 'DEMO' and various utility icons like search, refresh, and settings.

# Dynamic Content Region



The screenshot shows a web application interface with a blue header bar containing a menu icon and the text "Movies". On the right side of the header, there are links for "Install App" and a user profile for "david". A dark sidebar on the left contains navigation options: Home, Dashboard, Movies Classic, Movies Faceted, Movies Interactive, Movies smart, Movies search, and Movies dynamic (which is highlighted). The main content area is titled "Movies dynamic" and displays a list of movies generated by a PLSQL query. The list includes titles, years, and genres, with some genres highlighted in red. A refresh button is located in the top right corner of the content area.

Install App david

## Movies dynamic

PLSQL generated

A pontos idő: 2022.11.29 14:16:08

- Zack and Miri Make a Porno (2008) Romance
- Youth in Revolt (2010) Comedy
- You Will Meet a Tall Dark Stranger (2010) Comedy
- When in Rome (2010) Comedy
- What Happens in Vegas (2008) Comedy
- Water For Elephants (2011) Drama
- WALL-E (2008) Animation
- Waitress (2007) Romance
- Waiting For Forever (2011) Romance
- Valentine's Day (2010) Comedy
- Tyler Perry's Why Did I get Married (2007) Romance
- Twilight: Breaking Dawn (2011) Romance
- Twilight (2008) Romance
- The Ugly Truth (2009) Comedy

- HTML Content
- Refreshable Region
- JavaScript (MLE)

# Smart filter

Movies Install App david

- Home
- Dashboard
- Movies Classic
- Movies Faceted
- Movies Interactive
- Movies smart**
- Movies search
- Movies dynamic

## Movies smart

Search...

Genre Comedy (41) Lead Studio Independent (19) Year >=2010 (34) Audience Score 40 - 60 (29)

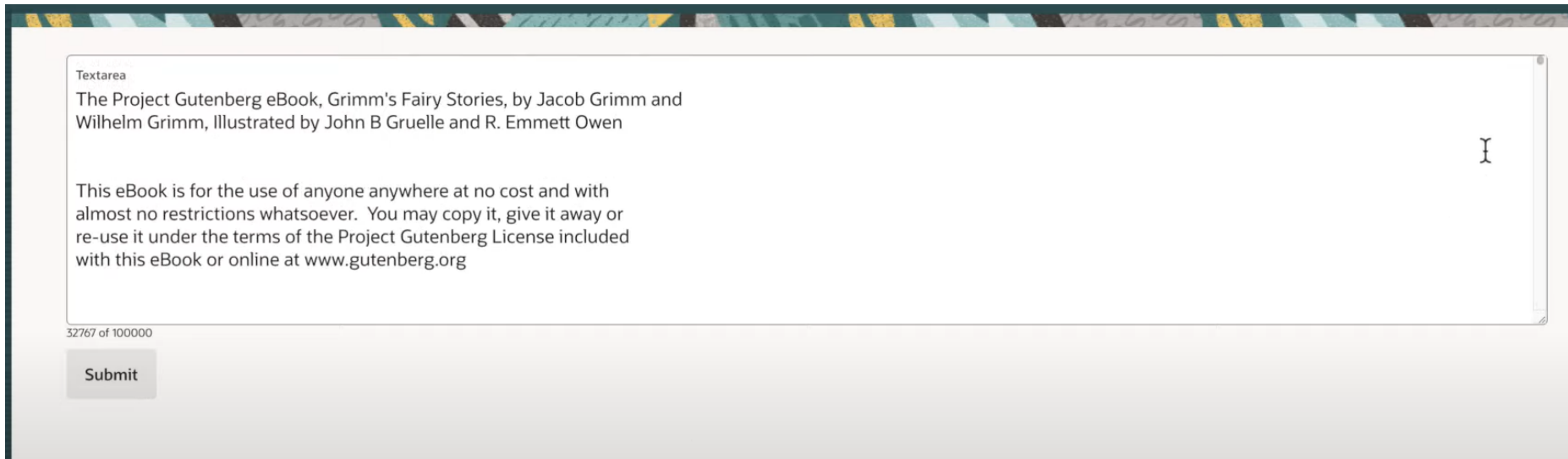
Order By  
Film

row(s) 1 - 15 of 77 [Next](#)

Id	Film	Genre	Lead Studio	Audience Score	Profitability	Rotten Tomatoes	Worldwide Gross	Year
77	(500) Days of Summer	comedy	Fox	81	8.096	87	\$60.72	2009
76	27 Dresses	Comedy		71	5.3436218	40	\$160.31	2008
75	A Dangerous Method	Drama	Independent	89	.44864475	79	\$8.97	2011
74	A Serious Man	Drama	Universal	64	4.382857143	89	\$30.68	2009
73	Across the Universe	romance	Independent	84	.652603178	54	\$29.37	2007
72	Beginners	Comedy	Independent	80	4.471875	84	\$14.31	2011
71	Dear John	Drama	Sony	66	4.5988	29	\$114.97	2010
70	Enchanted	Comedy	Disney	80	4.005737082	93	\$340.49	2007
69	Fireproof	Drama	Independent	51	66.934	40	\$33.47	2008
68	Four Christmases	Comedy	Warner Bros.	52	2.022925	26	\$161.83	2008
67	Ghosts of Girlfriends Past	Comedy	Warner Bros.	47	2.0444	27	\$102.22	2009
65	Gnomeo and Juliet	Animation	Disney	52	5.387972222	56	\$193.97	2011
66	Gnomeo and Juliet	Animation	Disney	52	5.387972222	56	\$193.97	2011
64	Going the Distance	Comedy	Warner Bros.	56	1.3140625	53	\$42.05	2010
63	Good Luck Chuck	Comedy	Lionsgate	61	2.36768512	3	\$59.19	2007



# CLOB Support for Page Items



Textarea

The Project Gutenberg eBook, Grimm's Fairy Stories, by Jacob Grimm and Wilhelm Grimm, Illustrated by John B Gruelle and R. Emmett Owen

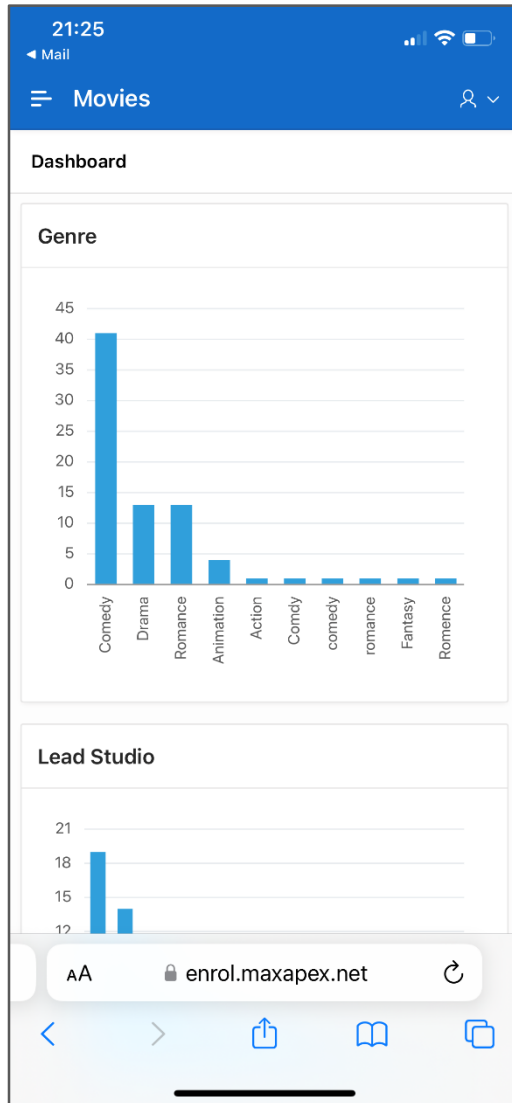
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32767 of 100000

Submit

- Session state
- Computations, Validations, etc.

# PWA and Mobile Updates



21:26  
Mail

Movies

Movies search

Reset

Comedy

- YI Youth in Revolt**  
Comedy  
The Weinstein Company  
2010
- YW You Will Meet a Tall Dark Stranger**  
Comedy  
Independent  
2010
- WI When in Rome**  
Comedy  
Disney  
2010

enrol.maxapex.net

21:25  
Mail

Movies

Movies dynamic

PLSQL generated

A pontos idő: 2022.11.24 20:25:34

- Zack and Miri Make a Porno (2008)** Romance
- Youth in Revolt (2010) Comedy
- You Will Meet a Tall Dark Stranger (2010) Comedy
- When in Rome (2010) Comedy
- What Happens in Vegas (2008) Comedy
- Water For Elephants (2011) Drama
- WALL-E (2008) Animation
- Waitress (2007) Romance
- Waiting For Forever (2011) Romance
- Valentine's Day (2010) Comedy
- Tyler Perry's Why Did I get Married (2007) Romance

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# Live Demo

[https://enrol.maxapex.net/apex/r/demo\\_wks/movies](https://enrol.maxapex.net/apex/r/demo_wks/movies)



*Köszönöm a figyelmet!*

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[david.pataki@enrol.hu](mailto:david.pataki@enrol.hu)