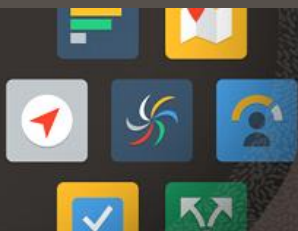


ORACLE



## Oracle Database App Developer

Newsletter - July 2023

### What's New

#### 23c Feature a Week

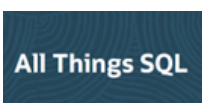
Learn about this week's feature: **Operational Property Graphs.** Loads of information through videos, blogs, and existing documentation to know more about this feature.



Bookmark this page to learn a feature every week.

#### Modify Constraints in Oracle

Databases have **five core constraints**: check, not null, unique, primary keys, and foreign keys. Defining these helps improve data quality. Read this blog to learn about modifying constraints.



#### Oracle DB 19c on ARM

Oracle Database 19c Enterprise Edition, the current long-term support release of Oracle Database, is now certified and available on the popular Arm architecture for both cloud and on-premises deployments. Read this blog to know more!



#### 23c Free Developer Release

Oracle database is committed to giving developers what they want, how they want it. That's why we're giving developers a head start on the new long-term support release of Oracle Database with Oracle Database 23c Free – Developer Release. And yes, for free!



### From the Desk of the Editor

Here is the July edition of the App Dev newsletter. This is our chance to highlight the latest stories to keep you updated on-the-go. We love to have your feedback and what else you want to be included in this newsletter. You can always email us with feedback, suggestions, comments, and corrections at [bill.sawyer@oracle.com](mailto:bill.sawyer@oracle.com) and [priya.p.sharma@oracle.com](mailto:priya.p.sharma@oracle.com).

### Top Stories

#### SQL:2023 Standard is now available

The **new SQL Standard** version, SQL:2023, and successor to the SQL:2016 Standard has been published by the International Standards Organization (ISO).

[Read more!](#)

#### Using JS to fetch API in Oracle 23c Free Release

Oracle's Multilingual Engine (MLE) powered by GraalVM offers an **implementation of the fetch API in JavaScript** for Oracle Database 23c Free-Developer Release on Linux x86-64. Read this blog to know more.

[Read more!](#)

#### Linting MLE JavaScript Modules

Continuous Integration (CI) is the process of automatically building and testing your application's code each time a developer pushes a commit to a remote source-code control repository like GitLab or GitHub.

[Read More!](#)

#### Calling Cohere and Hugging Face AI from within an Oracle database

Learn how to quickly create an entirely free app using a JavaScript program that runs within the free Oracle database and calls Hugging Face AI, the results of which are stored in the database and can

#### Develop a Geocaching Multiplayer Game

Learn how to quickly create a full-stack app using an extremely powerful, versatile, popular, and entirely free software stack consisting of Flutter,

then be accessed using SQL, JSON, Rest, or any other language.

Spring Boot, Oracle Database with Spatial (,SQL, JSON, and Blockchain), and OpenStreetMap.

[Read more!](#)

[Read more!](#)

## Developer Quiz

Which of the following choices contain the name of a cursor attribute?

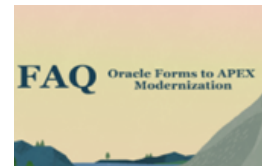
<b>Answer 1</b> %ROWNUM	<b>Answer 2</b> %FOUND
<b>Answer 3</b> %NOTFOUND	<b>Answer 4</b> %ROWCOUNT
<b>Answer 5</b> %ISCLOSED	<b>Answer 6</b> %ISOPEN

Answer(s) are below.

## Oracle APEX News

### [FAQ about Oracle Forms to APEX Modernization](#)

Read the 20 FAQs about Oracle Forms to APEX Modernization and start your proof of concept with APEX!



### [Announcing the New Oracle APEX Developer Professional Learning Path!](#)

Dive deeper into the exciting world of low-code application development with Oracle APEX. Learn complete application development in detail, specially designed and developed by the APEX Team. Along with learning the concepts in theory, indulge in practical learning with the Hands-on-Labs.

Enroll now for Free at: [APEX Professional Learning Path](#)

### [The Oracle APEX Developer Professional 2023 Certification is here!](#)

The all-new upgraded Oracle APEX certification has finally arrived. Stand out among your peers, and prove to everyone that you know how to rapidly build robust apps using APEX.

Get more details about this certification here: [APEX Developer Professional Certification](#).

Get your Oracle APEX Foundations Badge! Enroll in this self-paced training course to build enterprise apps 20x faster with 100x less code. [Enroll in the course for free!](#)

## Events and Event Replays

### [Data Management at Oracle CloudWorld 2023](#)

Scheduled to be held in Las Vegas from September 18 – 21, Learn how to maximize the value of your data with the latest innovations in Oracle Autonomous Database, Oracle Database, Exadata, and MySQL HeatWave. Know what's coming in the next major Oracle Database release – Oracle Database 23c – and how you can put it to use in your environment.

[Register](#)

[See the Sessions](#)

With keynotes, learning sessions, hands-on labs, and opportunities to interact with the Oracle Database development team and your peers, attending CloudWorld will put you on the fast track to being a data innovator.

## The DOAG Conference + Exhibition

Coming in November is DOAG2023. Attend theme day, conference days and training day during November 21-24, 2023 and deepen your knowledge and expand your network.

[Register Here](#)

## Oracle Database World 2023 Replays

Gain practical, technical knowledge on developing modern data-driven apps from experts and architects behind Oracle Database. Watch the replays.

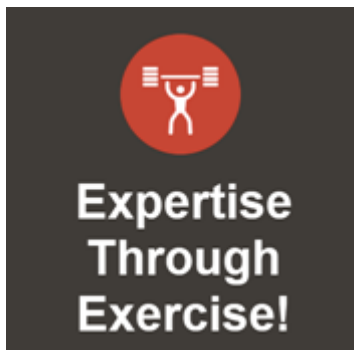
[Watch Replays](#)

Quiz Answers: 2, 3, 4, 6



## Ask Tom Events

- [ADB Learning Lounge](#), Aug 1st.
- [JSON in Oracle DB](#), Aug 8th.
- [.NET and Visual Studio \(Code\)](#), Aug 9th.
- [APEX Office Hours](#), Aug 17th.
- [DB Backup & Recovery](#), Aug 18th.



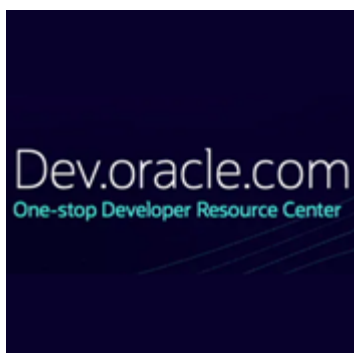
## Learn more... for free!

**Build Expertise** with hundreds of Oracle workshops on a variety of Oracle products, 24x7 for free, on [Oracle LiveLabs](#).

**Learn, Write, and Share SQL** at Oracle's interactive [Live SQL](#) site, built with Oracle APEX running on Oracle Database.

**Build Muscles** at [Oracle Dev Gym](#) by taking workouts, quizzes and even entire classes on SQL, PL/SQL, database design, logic and more.

**IN BETA:** [SQuizL](#), for fun and learning



## Useful links to keep your skills sharp

**Blogs:** [Oracle Developers](#) | [Oracle Database Insider](#) | [Oracle Cloud Infrastructure](#) | [Oracle APEX](#)

**Videos:** [Oracle's Database Product Management YouTube channel](#)

**Websites:** [Oracle Database](#) | [Oracle Autonomous Database](#) | [Oracle Developer Resource Center](#) | [Oracle Developer Tutorials](#)

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