



Database Application Developer Newsletter

Technical news, how-to articles, best practices, and more.

Hello Application Developers,

February has been an exciting month with Winter Olympics and, for those of you in the US, Super Bowl. Hope you had some time to watch and cheer on your favorite athletes.

Here are some highlights of this month's issue:

- **New Oracle Database API for MongoDB**
- **Free technology training at the Oracle Dev Gym**
- **Latest technical best practices and how-to resources for Oracle Database, languages, low-code / APEX, Machine Learning, and more**
- **Upcoming developer events - Pi Day and Java Innovations**

For more insights and content, check our social media channels and other resources listed at the end of this newsletter.

Kind regards,

- Your Database Application Developer editor



Oracle Database API for MongoDB

The new Oracle Database API for MongoDB enables developers to use MongoDB APIs with Oracle Autonomous Database, including Autonomous JSON Database. The API allows you to develop and run MongoDB based applications using MongoDB tools, drivers, and frameworks directly with Autonomous Database. You can also run SQL and PL/SQL that you know and love over your JSON data. Existing MongoDB applications can be migrated and run on OCI unchanged, giving you an easy way to finally get your applications running on Autonomous Database.

Get to know the Oracle Database API for MongoDB

An introductory overview of the new API capabilities.

Blog: [At Last, MongoDB Developers Get Full Autonomous Capabilities](#) – Carl Olofson, Research Vice President, Data Management Software, IDC

Video: [theCUBE interview: Oracle Lures MongoDB Devs With New API for ADB \(18:54\)](#) – Dave Vellante, theCUBE

Technical how-to articles

A step-by-step tutorial on how to use the Oracle Database API for MongoDB with Autonomous JSON Database. – Roger Ford

Blog: [Oracle Database API for MongoDB](#)

How to write an application using the Mongo APIs and Micronaut Java framework to persist and query data in Autonomous Database – Todd Sharp

Blog: [Using Mongo APIs with Micronaut Data to Persist and Query Data with Autonomous Database](#)

Ask experts @ Ask Tom JSON in Oracle Database Office Hours

Meet the experts behind the Oracle Database API for MongoDB and Oracle Autonomous JSON Database. Learn how to enable the API and how to write your first program or migrate an existing MongoDB application to Autonomous JSON Database.

March 8, 2022 | [Oracle Database API for MongoDB](#) with Beda Hammerschmidt

Try Oracle Autonomous JSON Database for free

An introductory blog on what Autonomous JSON Database is and how to sign up for Autonomous JSON Database for free. – Beda Hammerschmidt

Blog: [Oracle Autonomous JSON Database for Application Developers](#)

Focused Topic: Build your technology muscles for free with the Oracle Dev Gym

Did you know you can take **FREE** technology classes, workouts, and quizzes on SQL, PL/SQL, database design, and more? The [Oracle Dev Gym](#) offers free comprehensive on-demand classes, quick workout sessions focused on a specific technology or topic, and more than 2,500 quizzes to check your mastery level.



Popular free classes your fellow developers are taking

[Databases for Developers: Foundations](#) with Chris Saxon

[Analytic SQL for Developers](#) with Conner McDonald

[Get Started with PL/SQL Table Functions](#) with Steven Feuerstein

[CRUD operations using cx Oracle and Python](#) with Blaine Carter

Let's check your knowledge with a sample question

You execute these statements:

```
create table qz_bricks (brick_id integer not null primary key,
                        colour varchar2(10) not null,
                        shape varchar2(10) not null);

insert into qz_bricks values ( 1, 'red', 'cylinder' );
insert into qz_bricks values ( 2, 'blue', 'cube' );
commit;

create view qz_bricks_v as
select * from qz_bricks where shape = 'cylinder'
with check option;
```

Which choices run a DML statement against the view that complete successfully (without error)?

- 1) `insert into qz_bricks_v values (3, 'green', 'cylinder');`
- 2) `insert into qz_bricks_v values (4, 'yellow', 'cube');`
- 3) `update qz_bricks_v set colour = 'blue' where brick_id = 1;`
- 4) `update qz_bricks_v set shape = 'cube' where brick_id = 1;`
- 5) `delete qz_bricks_v where shape = 'cube';`

Continue reading this newsletter to find out the correct answers!



Developer events

March 14, 2022: **Pi Day**

Join an online extravaganza with highly technical content and demos that developers will love. You'll receive a free swag kit by registering, and if you're one of the first 500 to sign up for a OCI free tier account, you can score a bonus prize. Look for the confirmation email for more details. Check out the event page(www.314piday.com)!

Oracle Developer Live: Java Innovations

Boost your Java skills with technical content from experts at Oracle and the Java community. For more details and registration, visit [the event page](#).

March 22, 2022 | Americas

March 24, 2022 | Europe, Middle East, and Africa, Japan, Asia-Pacific

[Check upcoming Oracle Developer events](#)

What's new in database application development

Oracle Database and Oracle Autonomous Database

Blog: [Timestamp improvements in Autonomous Database](#) – Connor McDonald

Blog: [A conversation on the query optimizer](#) – Connor McDonald

Ask Tom Recording: [Database In-Memory External Tables](#) (54:01) with Andy Rivenes and Roger MacNicol



SQL and PL/SQL

Video: SQL in 60 seconds with Chris Saxon - [Inner Joins](#) | [Outer Joins](#)

Video: [How do I tune a SQL statement when the Optimizer picks the wrong index?](#) (7:18) with Maria Colgan

Ask Tom Recording: [Visualizing SQL window functions](#) (55:14) with Chris Saxon

Other Languages

Video: [Data Handling Techniques in Python for Oracle Database](#) (32:36) with Christopher Jones

Blog: [Securely Connect .NET to Oracle Autonomous Database without a Wallet or Client Configuration Files](#) – Alex Keh

Blog: [Accessing Autonomous Database with IAM token using Java](#) - Nirmala Sundarappa, Jean De Lavarene, and Michael McMahon

Low-code / APEX

Blog: [APEX App Creator Spotlight: Low-code is enterprise-ready—just ask Jessica Giddens](#) – Alexa Morales

Blog: [Capturing Lat/Long Address Info Without a Map](#) – Steve Muench

Blog: [Adding Tags Using Multi-Value PopupLOVs and Smart Filters](#) – Steve Muench

Blog: [Checking If a Region's Data Source Returned Any Data](#) – Steve Muench

Blog: [Reusable Region as a Modal Page](#) – Jeff Kemp

Blog: [Trick to Reference Field Value in Dynamic Action on Grid Column](#) – Steve Muench

Ask Tom Recording: [Developer Tips from the APEX Team](#) (1:04:38)

Ask Tom Recording: [Vanity URL Extensions for APEX and ORDS on Oracle Autonomous Database](#) with Todd Bottger

Machine Learning, Graph, Spatial

LiveLabs Workshop: [Get Started with Maps and Spatial in APEX Workshop](#)

Blog: [Top 10 Reasons to use Machine Learning in Oracle Database](#) – Mark Hornick

Blog: [Import Wide Datasets into Nested Columns Using OML4Py](#) – Jie Liu

Ask Tom Recording: Feature highlights for new Oracle Machine Learning notebook templates with Marcos Arancibia – [Extraction](#) (28:12) | [Clustering](#) (28:28)

Oracle NoSQL Database

Blog: [Table Hierarchy: The Hidden Gem of Oracle NoSQL Database](#) - Tim Goh

... And the correct answers to the Dev Gym quiz are:

Choices 1, 3, and 5. For further explanations, visit the [quiz page](#) (requires Oracle login). For more quizzes, visit the [Oracle Dev Gym](#).

Technology announcements

[Data Labeling Service V2 announcement](#)

The release induces new features, such as consolidated export file and standard export file formats, as well as several UX and UI enhancements and fixes. – Praveen Patil

[Replays: Oracle Database World](#)

Access Oracle Database World on demand! Discover how Oracle's latest database innovations can help you create a data-driven organization.



Get your hands dirty... for free!

Get Autonomous Database for Free:

1. Oracle Cloud Free Tier plus 30-day free trial
2. \$300 in credits for Cloud services

Gain knowledge and grow opportunity - [Free Oracle Cloud Infrastructure \(OCI\) training, plus free certification](#) through February 28, 2022.

Get hands-on experience on hundreds of Oracle solutions 24x7, for free on [Oracle LiveLabs](#).

Learn, Write, and share SQL at a free interactive [Oracle Live SQL](#) site, built with Oracle APEX running on Oracle Database.



Useful links to keep your skills sharp

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

Newsletters: [Subscribe to Oracle newsletters](#)

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

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