



## Oracle Database Application Developer Newsletter

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

### September 2022 News Highlights

- What's New
- From the Desk of the Editor
- Developer Quiz
- Blogs of Interest
- Oracle APEX News
- Upcoming Events
- Learning Announcements



### What's New

- [Must See Sessions at Oracle CloudWorld](#)
- [Microsoft Azure and Oracle Database on OCI Combined for Users \(and that means Devs\)](#)
- [Oracle Spatial Studio 22.2 Released](#)

## Newsletter Changes – from the desk of the Managing Editor

In this issue, we get you ready to prepare and plan for Oracle CloudWorld, along with the news and every popular Developer Quiz. Want to add your thoughts on what you want to see or have other changes to recommend? Email me at [bill.sawyer@oracle.com](mailto:bill.sawyer@oracle.com).

## Developer Quiz

You create a table and start writing an anonymous block to populate it:

```
CREATE TABLE qz_bricks (
    brick_id  INTEGER      NOT NULL PRIMARY KEY,
    colour    VARCHAR2(10)  NOT NULL,
    shape     VARCHAR2(10)  NOT NULL
);

DECLARE
    ##REPLACE##
BEGIN
    brick.brick_id := 1;
    brick.colour  := 'red';
    brick.shape   := 'cylinder';
    INSERT INTO qz_bricks
        VALUES brick;
END;
/
```

Which choices can go in the ##REPLACE## section, so the block executes without error?

**Choice 1:**

```
TYPE brick_rec IS RECORD (
    brick_id INTEGER,
    colour    VARCHAR2(10),
    shape     VARCHAR2(10)
);
brick brick_rec;
```

**Choice 2:**

```
TYPE brick_rec IS RECORD (
    brick_id NUMBER,
    colour    VARCHAR2(4000),
    shape     VARCHAR2(4000)
);
brick brick_rec;
```

**Choice 3:**

```
TYPE brick_rec IS RECORD (
    brick_id NUMBER(1),
    colour    VARCHAR2(1),
    shape     VARCHAR2(1)
);
brick brick_rec;
```

**Choice 4:**

```
TYPE brick_rec IS RECORD (
    brick_id INTEGER,
    colour    VARCHAR2(10),
    shape     VARCHAR2(10),
    weight    NUMBER
);
brick brick_rec;
```

#### Choice 5:

```
brick qz_bricks%ROWTYPE;
```

Answer is below.

## Blogs of Interest

- [Join Us at Oracle CloudWorld](#)
- [Implementing Microservices in the Database](#)
- [Unified Observability Exporters: Metrics, Logs, and Tracing](#)
- [Develop with Oracle Transactional Event Queues](#)

## Upcoming AskTOM Office Hours

- [How to concatenate rows into a comma-separated list. \(Oct. 4<sup>th</sup>, 13:00-14:00 UTC\)](#)
- [Technology Spotlight Series for Customers \(Oct. 4<sup>th</sup>, 16:00-17:00 UTC\)](#)
- [JSON in Oracle Database \(Oct. 11<sup>th</sup>, 17:00-18:00 UTC\)](#)



For more AskTOM office hours in September and beyond, check the [AskTOM Office Hours page](#).

## Oracle APEX News

**APEX App Creator Spotlight:** APEX gives everyone the ability to be a creator and turn ideas into compelling apps. Here are some creators and the stories behind them.

- **Pablo Duque** developed the [NeuroBase](#) app to provide neurorehabilitation experts one place to go to assess and behavioral data. “NeuroBase allows us to standardize what we collect,” says Duque. “APEX gave us the flexibility we need to build an app that allows neurorehabilitation specialists, like myself, to achieve more, more easily.”



cognitive  
the data  
needed to  
myself, to

[Submit your story](#) and let us showcase your application!

### Blogs and Videos

- [Getting started with APEX on Oracle Cloud – QuickStart](#)
- [How to Provision APEX in Oracle Cloud Interactively Using a Web Browser](#)
- [Connecting your APEX apps to Non-Oracle Databases with Oracle Autonomous Databases](#)

## Developer Quiz

The August developer quiz answers are:

Choices **1, 3 and 5**.

## Upcoming events | event recaps

### AnDOUC TechCast Days

This 3-day live virtual event has daily themes focusing on Spatial/Machine Learning and Analytics, and a special day is to Data Lakehouse architectures. There are sessions for developers, DBAs, architects, and IT managers, and also use cases from the utilities and airport industries. This is a free [View the agenda and register.](#)



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include  
event.

### Upcoming APEX Events:

- [Modernização de Projeto Oracle Forms para Oracle APEX](#) (September 22)
- [Oracle APEX: lo sviluppo applicativo low-code visto dagli utenti](#) (September 28)
- [What's new in Flows for APEX v22.2](#) (September 29)
- [SPOUG Academy: LowCode Development](#) (October 5)
- [APEX at Oracle CloudWorld 2022!](#) (October 17-20)



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



### Useful links to keep your skills sharp

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

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

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