

DOAG

datenbank.doag.org

**Einsteiger:
Erstberührung mit Oracle:
Cloud FreeTier, LiveSQL, LiveLabs & Co.**

Mittwoch 24.05.2023 | 11:15 - 12:00 | Amsterdam 1



Robert Marz
DATABEE
Die IT-Architekten



Primary Role

Senior Technical Architect
with database centric view of the world

DOAG (German Oracle User Group)

Active Member of Database Community
Responsible for Cloud Topics



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Oracle ACE
Pro



500+ technical experts helping peers globally

The **Oracle ACE Program** recognizes and rewards community members for their technical and community contributions to the Oracle community

3 membership tiers



For more details on Oracle ACE Program:
ace.oracle.com



Nominate

yourself or someone you know:

ace.oracle.com/nominate





Entering the world of Oracle RDBMS





Oracle RDBMS – Entry Barriers

Beginner questions:

- What to download?
- Answering the installer Questions?
- How to configure?
- Server? Clients? Where do they belong?
- How to connect?

Impossible to achieve without help or prior knowledge

Luckily, there are other options to start with

6
7
8

SELECT
FROM
WHERE

Emp
Employee
HireDate **BETWEEN**
SELECT EmployeeID, FirstName,
City **IN** ('Seattle', 'Tacoma')

LiveSQL

11

12

13

14

15

SELECT
FROM
WHERE

EmployeeID, FirstName, Last
Name
NOT BETWEEN '1/1/2000'



Oracle LiveSQL

Oracle LiveSQL

“Web-based SQL editor with an Oracle database built-in”
running Oracle Database 19c EE Extreme Perf -

19.17.0.0.0

Built with love using [Oracle APEX](#)

URL

<https://livesql.oracle.com>

Access

Free to use – free oracle.com-account required

Features:

Try and save SQL

Code Library:

75 tutorials

1071 prepared scripts

The screenshot shows the Oracle LiveSQL web interface. At the top, there is a navigation bar with the 'Live SQL' logo, a 'Help' link, a 'Sign In' link, and a dark mode toggle. The main content area features a large SQL prompt icon (>_) on a grid background. Below this, the text reads 'Learn and share SQL' followed by 'Running on Oracle Database 19c'. A search bar is present with the placeholder text 'Search scripts and tutorials' and a magnifying glass icon. Two buttons are visible: 'Start Coding' (black) and 'View Scripts and Tutorials' (white with a black border). At the bottom, there is a link for 'Instructor's Guide'.

As of May 20th, 2023



Oracle LiveSQL Features

SQL Worksheet

- Try SQL Statements

Session History

- Recall Executed Statements

Schema Browser

- Explore Schema Objects

Quick SQL

- Build Datamodel and sample data
- From Shortcut language

Store Scripts

- and Tutorials

Quick SQL

Shorthand

Samples Generate SQL

```
1 departments /insert 4
2   name /nn
3   location
4   country
5 employees /insert 14
6   name /nn vc50
7   email /lower
8   cost center num
9   date hired
10  job vc255
11
12 view emp_v departments employees
```

Output

Copy to Worksheet

```
1 -- create tables
2 v create table depart
3   name
4   location
5   country
6 )
7 ;
8
9 v create table employ
10  department_id
11
12
13 name
```



WATCH
LIVE

A person wearing a white lab coat is seated at a desk in a laboratory. They are wearing blue nitrile gloves and holding a silver pen, writing in a yellow notebook. In the background, a laptop is open on the desk, displaying a blue-toned interface. To the right, a computer monitor is partially visible. Further back, a microscope is out of focus. A red and orange gradient bar is overlaid on the left side of the image, containing the text "LiveLabs".

LiveLabs



Oracle LiveLabs

Oracle LiveLabs

“Oracle LiveLabs gives you access to Oracle's tools and technologies to run a wide variety of labs and workshops.”

Built with love using [Oracle APEX](#)

URL

developer.oracle.com/livelabs

Access

Free to use – free oracle.com-account required
Run on your tenancy or an Oracle owned (without costs)
→Workspace will be setup → email notifications

Features:

Try technologies in the Oracle Cloud
Code Library:
795 workshops

As of May 20th, 2023

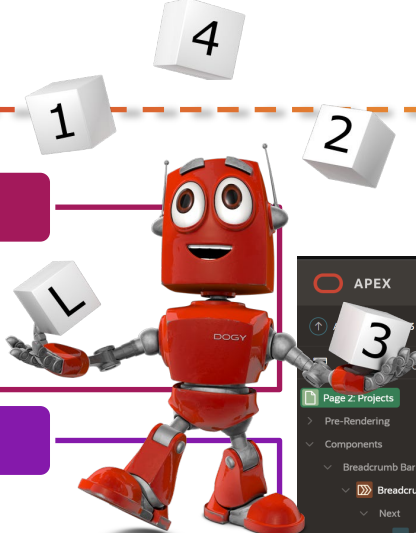
The screenshot shows the Oracle LiveLabs website interface. At the top, there is a navigation bar with the LiveLabs logo, a search icon, and links for 'Event Code' and 'Sign In'. Below the navigation bar, there are five user profile icons representing different roles: Developer, DBA, Data Scientist, DevOps, and Low Code Developer. The main content area is titled 'Featured Workshops' and displays a grid of workshop cards. Each card includes a title, a brief description, and a duration/view count. The workshops shown are: 'DBA Essentials Workshops Series for Oracle Database 21c' (30 mins, 609 Views), 'Introduction to Oracle Machine Learning for Python on Autonomous Database' (2 hrs, 19324 Views), 'Red Bull Racing Honda Win: Develop an Interactive Map of a Racetrack' (1 hr, 4829 Views), and 'Efficient Resource Management for Kubified Java Apps' (2 hrs). At the bottom of the page, there are five icons representing different Oracle Cloud technologies: OCI, Autonomous DB, Analytics, Security, and Sprints.



WATCH
LIVE



[APEX.oracle.com](https://apex.oracle.com)



Oracle Apex Workspace

- → create multiple apps
- → Oracle database schema
- → create tables, store data

Upgraded frequently

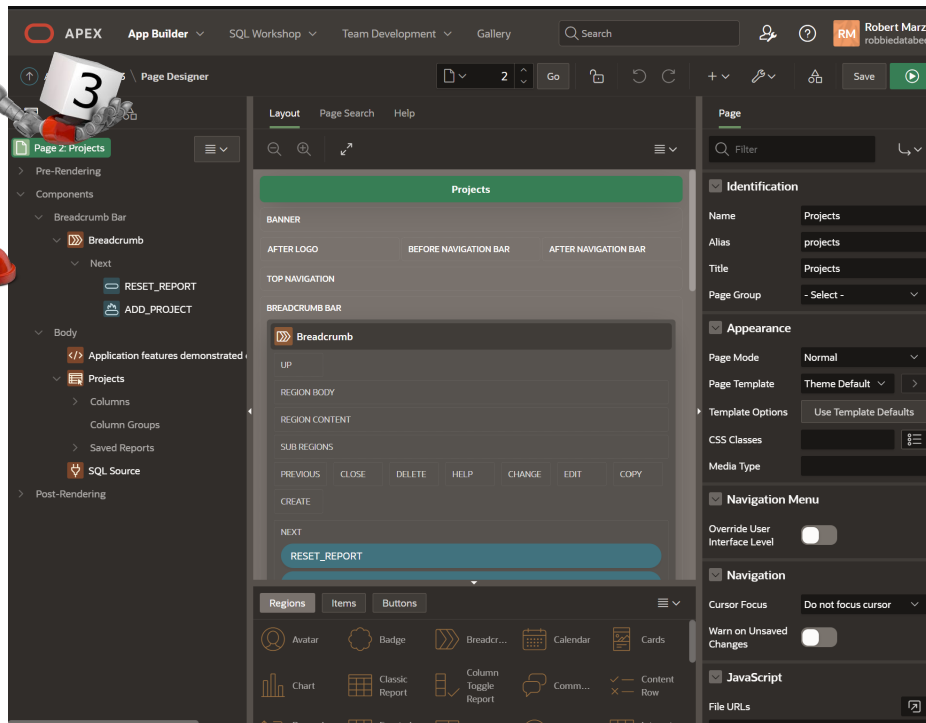
- → Oracle APEX 23.1.0
- → Oracle Database 19c EE Extreme Perf
Version 19.14.0.0.0

Free

- → request Workspace via E-Mail

License

- For demo and learning purposes
- → not for production or sensible data



As of May 20th, 2023



WATCH
LIVE



Oracle Cloud Free Tier



Oracle Cloud Free Tier

Oracle Cloud Infrastructure

- Free \$300 Usage / 1 month
- Always Free Services stay available
- can be upgraded to paid tenant

URL

- cloud.oracle.com

Required for account creation

- E-Mail address
- Credit Card (will not be billed)





Oracle Cloud Free Tier - Features

Always Free cloud services

Services you can use for an unlimited time.

Databases

Two Oracle Autonomous Databases 20GB Data
Oracle APEX, ORDS and SQL Developer

Compute

Two AMD Compute VMs
Up to 4 instances of ARM Ampere A1 Compute with
3,000 OCPU hours and 18,000 GB hours per month

A lot More

Block, Object, and Archive Storage
Load Balancer and data egress
Monitoring and Notifications



ORACLE
Cloud Infrastructure



WATCH
LIVE

The background features a dark, abstract composition of glowing orange and green lines and shapes. In the foreground, there are several dark, cylindrical objects with bright orange glowing rings around them. The background is filled with various glowing orange shapes, including circles, lines, and curved paths, set against a dark green and black backdrop.

Oracle Database 23c Free



Oracle Database 23c Free

Latest Oracle Database

- All the features and options

URL

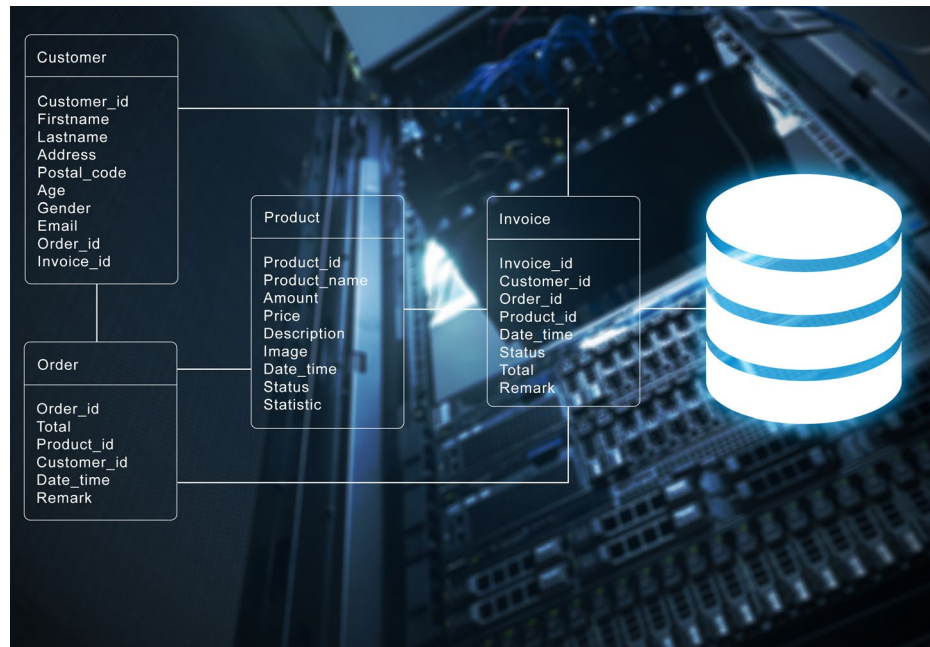
- oracle.com/de/database/free/

Resource Limits

- 2 CPUs for foreground processes
- 2GB of RAM (SGA and PGA combined)
- 12GB of user data on disk (irrespective of compression factor)

License

- No limitation in usage
- Provided as is
- →No support, no patches



Conclusion





Oracle – First Contact

First Contact

Never as easy as now

Lots of Free Cloud Resources

LiveSQL

LiveLabs

Oracle Cloud Free Tier

No need for own database

But you can have them

On premises: Database 23c Free

In Cloud: Always Free

PLEASE

**DO
TRY THIS
AT HOME**