Section 2: Software Download & Installation

13. About Database Installation

-Use virtual box option

-Install database into computer

-SQL Developer

14. Ways to get database

-Virtual Machine

+VM: an emulated computer system created using software. Virtualization software is a tool that runs virtual machines. It’s like a computer inside a computer.

+Virtual machine image: a file that has a bootable operating system installed on it. We import it into a virtualization software to create virtual machine.

+Require

+Why use option

Easy to install & uninstall

Easy to work with different operating systems

Includes an up and running database

-Local Installation

-Oracle Live SQL

+Work on internet, you can easily start coding using latest version of Oracle database.

A screen shot of a computer

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15, 16. Option 1: Install VMWare and VirtualBox

17, 18: Download Virtual Machine Image (19c)

19. Configure VMware Virtualization Software

20. Configure Oracle VirutalBox Virtualization Software

21. Configure SQL Developer inside of Virtual Machine

22. Important Note

23. Option 2: Download and Install Oracle Database

-Login:

docker login container-registry.oracle.com

+User name: Oracle user

+Auth Token: vdd7kYEBLHp4obzhoeMVn#

-Pull for latest:

docker pull container-registry.oracle.com/database/enterprise:latest

-Run:

docker run -d --name <oracle-db> container-registry.oracle.com/database/enterprise:19.3.0.0

-Check log: docker logs <oracle-db>

-Connect to Oracle Database Server Container

docker exec -u oracle -it oracle-db bash

sqlplus / as sysdba

docker exec -it <oracle-db> sqlplus / as sysdba

$ docker exec -it <oracle-db> sqlplus sys/<your\_password>@<your\_SID> as sysdba

$ docker exec -it <oracle-db> sqlplus system/<your\_password>@<your\_SID>

$ docker exec -it <oracle-db> sqlplus pdbadmin/<your\_password>@<your\_PDBname>

-Connect from outside of container

+Discover the mapped port:

$ docker port <oracle-db>

+Connect using SQL\*Plus

$ sqlplus sys/<your\_password>@//localhost:<exposed\_port>/<your\_SID> as sysdba

$ sqlplus system/<your\_password>@//localhost:<exposed\_port>/<your\_SID>

$ sqlplus pdbadmin/<your\_password>@//localhost:<exposed\_port>/<your\_PDBname>

-Create User:

SHOW PDBS;

ALTER SESSION SET CONTAINER = ORCLPDB1;

CREATE USER dev IDENTIFIED BY Dev1234;

GRANT CONNECT, RESOURCE, DBA TO dev;

24. Option 2: Unlock HR Shema

-Scrips to unlock HR Schema

A close-up of a computer code

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25. Option 2: Configure and Use SQL Developer

-2 users:

+system user: a normal user having a DBA privilege

+sys user: the most powerful, the highest privileged user, store data and statistics about database system

ALTER SESSION SET CONTAINER = CDB$ROOT;

ALTER USER sys IDENTIFIED BY your\_new\_password;

ALTER USER system IDENTIFIED BY your\_new\_password;

When create connection by sys user, set Role = SYSDBA, not default

26. Option 2: Install Sample Schemas in Oracle Database

27. Option 2: HR Schema Create Code (if you could not get the HR user is other ways)

28. Option 3: Use Oracle Live SQL

29. Option 3: Oracle Live SQL Limitations

30. SQL Statements used in this course

31. Use Docker