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

AI-generated content may be incorrect.

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: sWz5EktvtC9hDDtaX#B

-Pull for latest:

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

-Run:

docker run -d --name <oracle-db> -p 1521:1521 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

AI-generated content may be incorrect.

# 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

Xem file installation+code.txt  
-Cop file:

docker run -d --name oracle-db -p 1521:1521 -v "C:/sample\_schemas":/opt/oracle/schemas container-registry.oracle.com/database/enterprise:19.3.0.0

+Nếu đã tạo container trước, copy file:

docker exec -it oracle-db mkdir -p /opt/oracle/schemas

docker cp "C:\SAMPLE\_SCHEMAS\EXPORTED\_SAMPLE\_SCHEMAS.dmp" oracle-db:/opt/oracle/schemas/EXPORTED\_SAMPLE\_SCHEMAS.dmp

-Trong SQLPLUS:

CREATE OR REPLACE DIRECTORY import\_dir AS '/opt/oracle/schemas';

-Trong BASH:

impdp system/123@localhost:1521/orclpdb schemas=hr directory=import\_dir dumpfile=EXPORTED\_SAMPLE\_SCHEMAS.dmp logfile=import.log remap\_tablespace=EXAMPLE:USERS

impdp system/123@localhost:1521/orclpdb schemas=sh directory=import\_dir dumpfile=EXPORTED\_SAMPLE\_SCHEMAS.dmp logfile=import.log remap\_tablespace=EXAMPLE:USERS

impdp system/123@localhost:1521/orclpdb schemas=oe directory=import\_dir dumpfile=EXPORTED\_SAMPLE\_SCHEMAS.dmp logfile=import.log remap\_tablespace=EXAMPLE:USERS

impdp system/123@localhost:1521/orclpdb schemas=pm directory=import\_dir dumpfile=EXPORTED\_SAMPLE\_SCHEMAS.dmp logfile=import.log remap\_tablespace=EXAMPLE:USERS

impdp system/123@localhost:1521/orclpdb schemas=ix directory=import\_dir dumpfile=EXPORTED\_SAMPLE\_SCHEMAS.dmp logfile=import.log remap\_tablespace=EXAMPLE:USERS

-Trong SQLPLUS:

alter user hr identified by hr account unlock;

alter user sh identified by 123 account unlock;

alter user oe identified by 123 account unlock;

alter user pm identified by 123 account unlock;

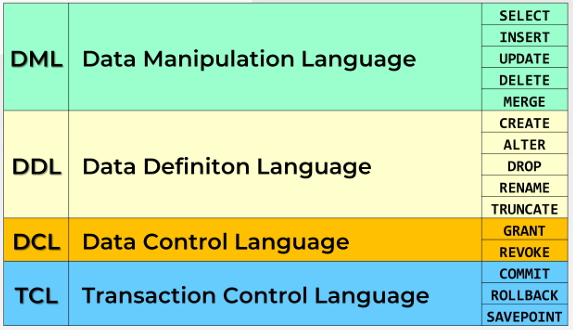
alter user ix identified by 123 account unlock;

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