Download Docker for MAC

Referred links:

https://www.youtube.com/watch?v=ciYsDbBx80s https://docs.oracle.com/database/121/COMSC/installation.htm#COMSC00004

- 1. Docker Desktop Community 2.1.0.3 Download
- https://docs.docker.com/docker-for-mac/release-notes/#docker-desktop-community-2103
- 2. Move to Applications! and login with docker hub id and pwd
- 3. In terminal
- -> docker login
- 4. Browse
- https://hub.docker.com/_/oracle-database-enterprise-edition
- Proceed to checkout
- Enter first name, last name, Company:none, Title:none, phone no
- Check I agree and I acknowledge
- Get Content
- Copy command from next page similar to this one
 - -> docker pull store/oracle/database-enterprise:12.2.0.1

Install Oracle using Docker for MAC

- 5. Paste the copied command in terminal and enter. Downloading will start.
- Digest and Status will be shown
- 6. run command on terminal
- -> docker run -d -p 1521:1521 --name oracle store/oracle/database-enterprise:12.2.0.1 (1521:1521 is container name & 12.2.0.1 is Docker image tag)
- o/p will be a long code containing alphabets and numbers
- 7. Check if database is running and health status, run command on terminal
- -> docker ps -a

o/p similar to this one:-

CONTAINER ID IMAGE COMMAND CREATED

STATUS PORTS NAMES

b5fcf785d4ea store/oracle/database-enterprise:12.2.0.1 "/bin/sh -c '/bin/ba..." About a minute ago Up About a minute (health: starting) 0.0.0.0:1521->1521/tcp, 5500/tcp oracle

- 8. Connecting to container, run command on terminal (change <Oracle-DB> to container name or container id)
- docker exec -it <Oracle-DB> bash -c "source /home/oracle/.bashrc; sqlplus /nolog"

(my case)

-> docker exec -it oracle bash -c "source /home/oracle/.bashrc; sqlplus /nolog"

o/p will be SQL*Plus release and production info

9. run command on terminal

SQL> connect sys as sysdba;

```
Enter password: Oradoc db1
Connected.
SQL> alter session set " ORACLE SCRIPT"=true;
Session altered.
SQL> create user batman identified by batman;
User created.
SQL> GRANT ALL PRIVILEGES TO batman;
Grant succeeded.
SQL> commit;
Commit complete.
SQL> exit
Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production
10. Install hr schema
-> docker start oracle
oracle
-> docker exec -it oracle bash -c "source /home/oracle/.bashrc; sqlplus /nolog"
SQL*Plus: Release 12.2.0.1.0 Production on Sun Aug 9 12:00:48 2020
Copyright (c) 1982, 2016, Oracle. All rights reserved.
SQL> connect batman;
Connected.
SQL> alter session set "_ORACLE_SCRIPT"=true;
Session altered.
SQL> GRANT ALL PRIVILEGES TO batman;
Grant succeeded.
SQL> @?/demo/schema/human_resources/hr_main.sql
specify password for HR as parameter 1:
Enter value for 1: hr
specify default tablespeace for HR as parameter 2:
Enter value for 2: users
specify temporary tablespace for HR as parameter 3:
Enter value for 3: temp
specify log path as parameter 4:
Enter value for 4: $ORACLE_HOME/demo/schema/log/
***** success ****
select * from employees;
*** working ***
```

Oracle JDBC

1. Download ojdbc8.jar from here

https://www.oracle.com/database/technologies/jdbc-ucp-122-downloads.html

- 2. Project right click -> Build Path -> Configure Build Path -> Select derby jar and Remove -> Add external jars -> browse and select ojdbc8.jar -> Apply and Close.
- 3. Loading JDBC driver in java program
- -> Class.forName("oracle.jdbc.driver.OracleDriver");

Establishing connect with the database

NOTE: know your SID before doing this

- Either look for it in listner.ora file, or
- run the below command in terminal

After connecting to database, connect with your user and execute any following SQL statement to find the ORACLE SID

SQL> SHOW PARAMETER INSTANCE NAME

SQL> SELECT INSTANCE FROM V\$THREAD:

SQL> SELECT SYS_CONTEXT('USERENV', 'INSTANCE_NAME') FROM DUAL;

SQL> SELECT INSTANCE_NAME, HOST_NAME from v\$instance;

and get the hostname and insert it in below url in place of ORCLCDB.

- -> String url = "jdbc:oracle:thin:@localhost:1521:ORCLCDB"; // ORCLDB.localdomain or OSE or //32118:ORCL
- -> String user = "batman"; //user created
- -> String pass = "batman"; //pwd for this user

***** Save the code and Run! Voila! It should work, if doesn't then throw away the laptop for a while and relax. ****

By

Aayush Arora

Anchal Maheshwari