

## Download Docker for MAC

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. On terminal
  - > docker login
4. Browse
  - [https://hub.docker.com/\\_/oracle-database-enterprise-edition](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-> 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

CONTAINER ID	IMAGE	COMMAND	CREATED	NAMES	STATUS
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 tablespace 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 this command on terminal

```
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  
PS No - 10670397

Anchal Maheshwari  
PS No - 10670579

---