Mac Installation Instruction
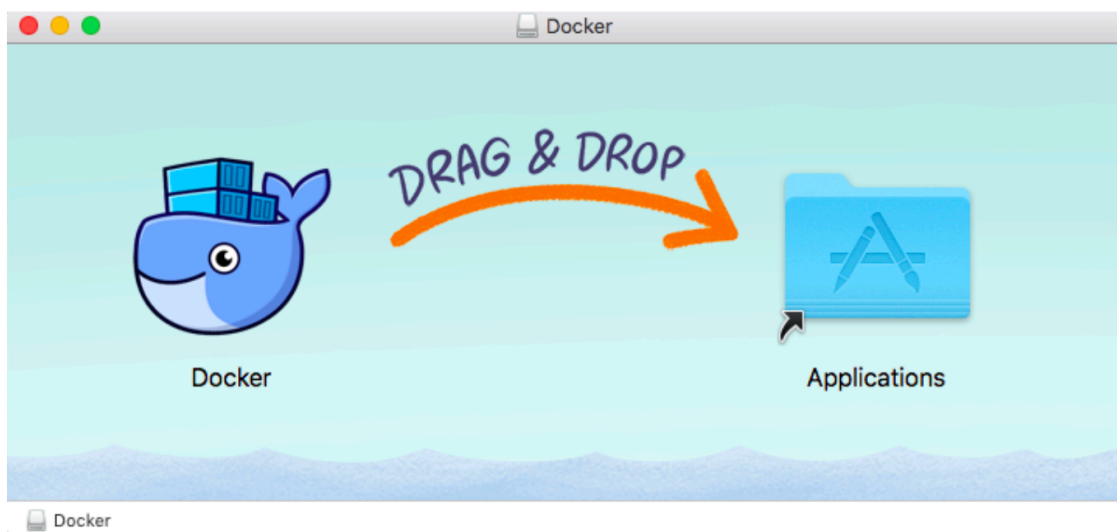
Step – 1
Download Docker for Mac from the official website.

Step – 2
Once you download the **Docker.dmg** file, double click on it and you will just have to drag and drop the icon into the Application folder.
- There will be a test run initiated by this, follow along the steps as prompted.

Step – 3
Go to the application folder and run docker
- Make sure that you have a docker image on the top right of your screen.
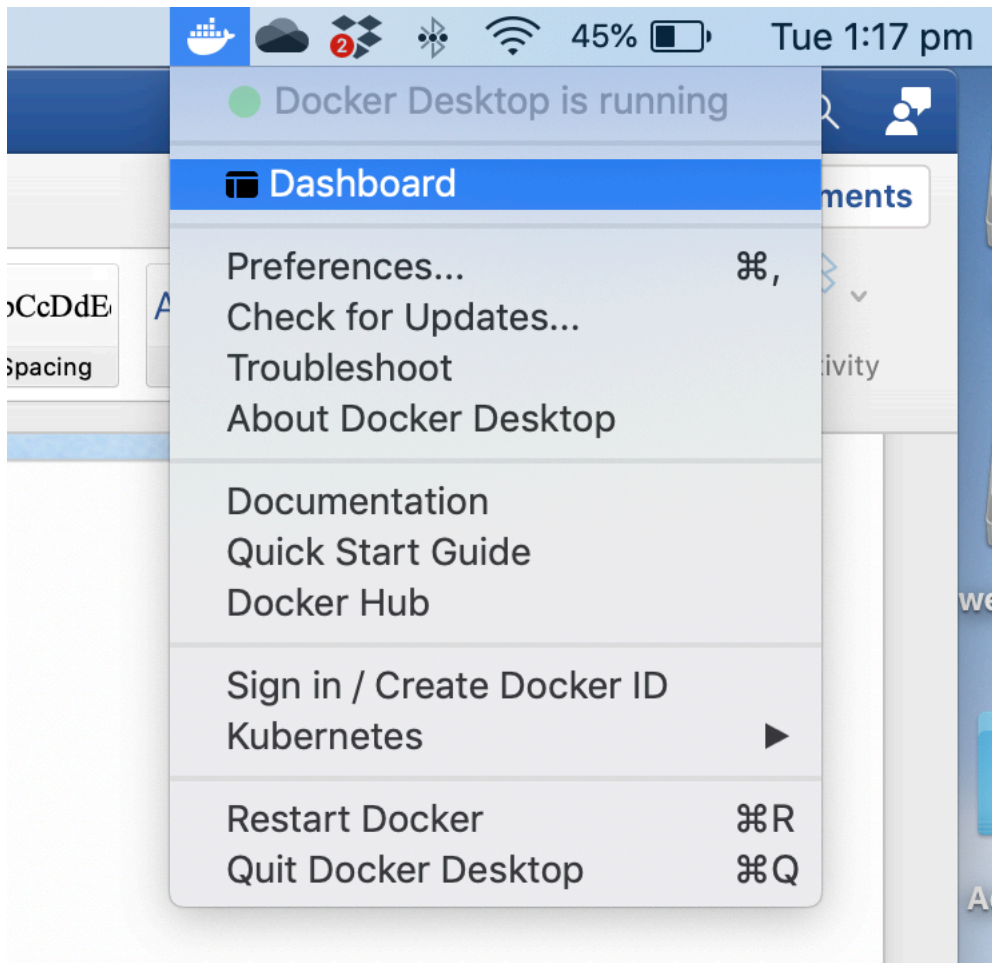
Step – 4
Open terminal types the following commands one after the other.

        $docker version
        $ docker pull absolutapps/oracle-12c-ee
        $ mkdir ~/oracle_data
        $ docker run -d --name oracle -p 8080:8080 -p 1521:1521 -v ~/oracle_data/:/u01/app/oracle
        absolutapps/oracle-12c-ee
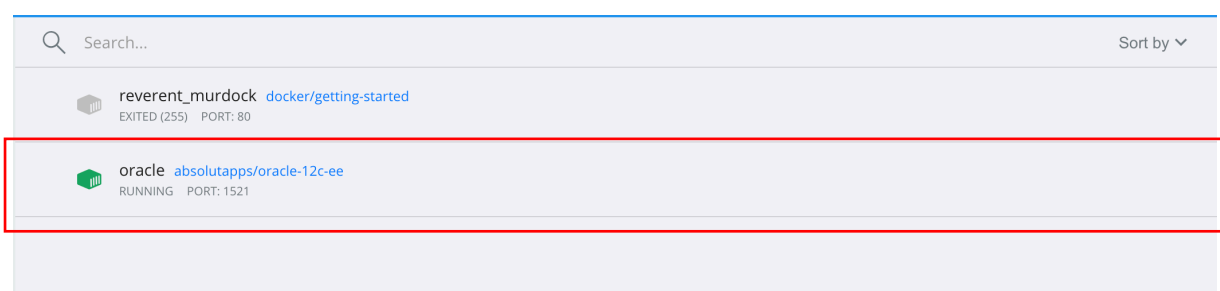 $ docker ps

Step – 5
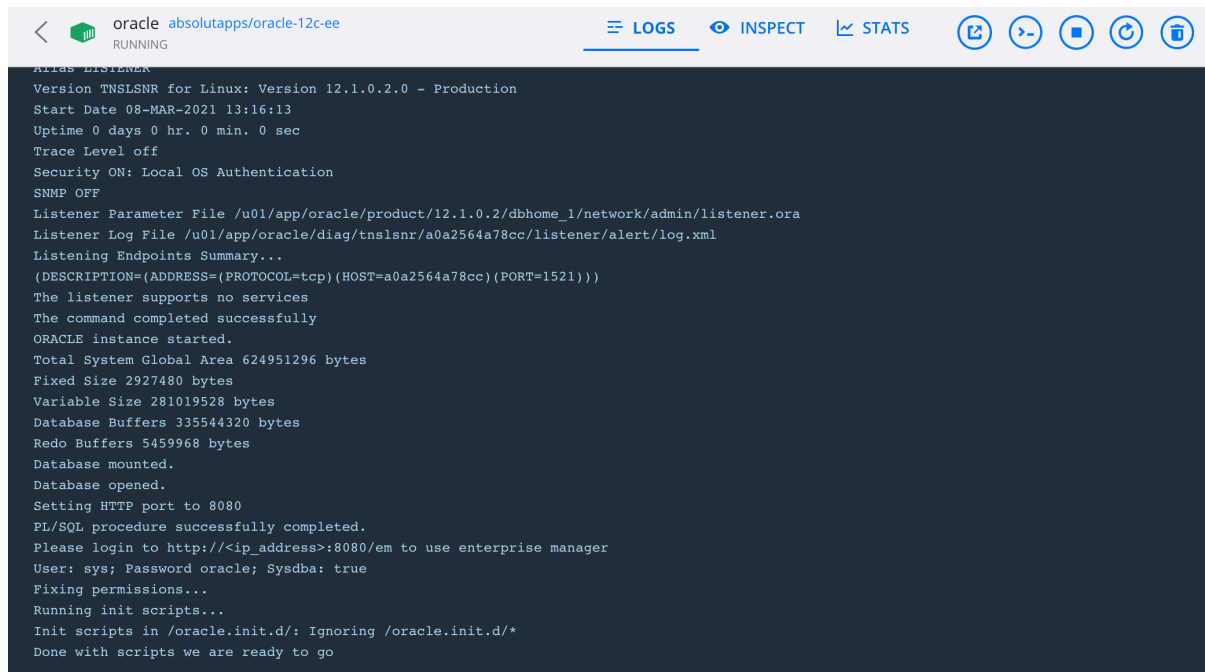Open Docker Dashboard, by clicking on the top right Docker Icon

Step − 6

On your docker instance, double click on your instance (highlighted in red) and check if you get the log for the instance you just made

Make sure you get the log as shown below(This might take some time to come, wait for about 5 mins):
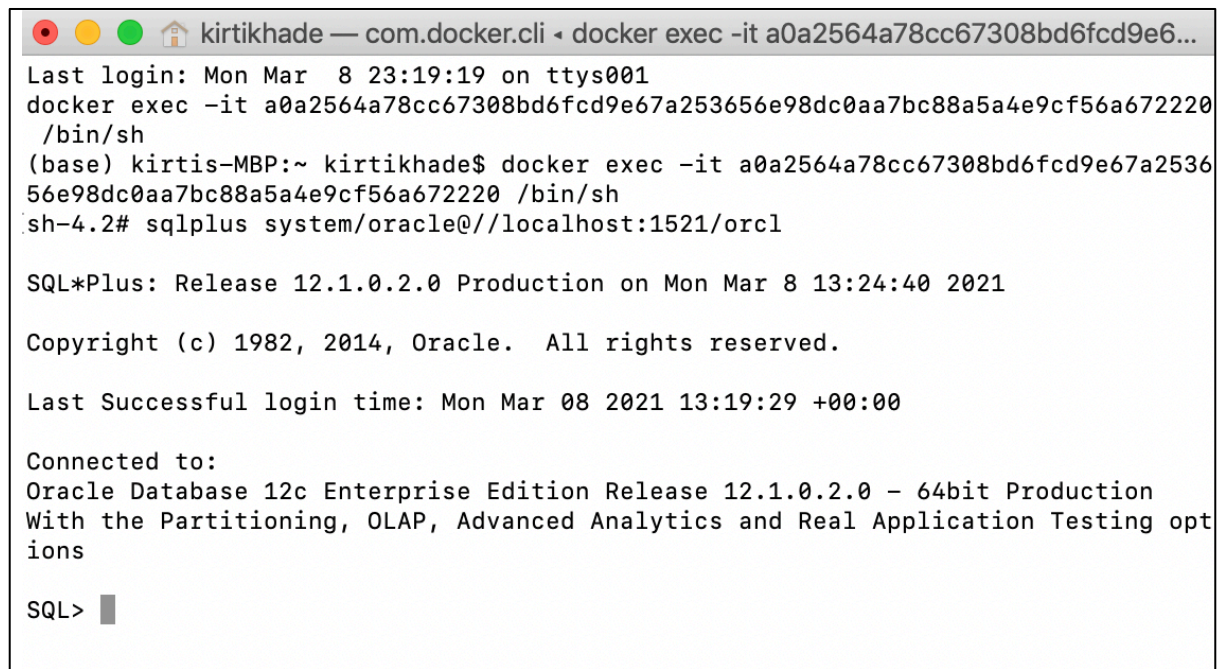
```
Alias LISTENER
Version TNSLSNR for Linux: Version 12.1.0.2.0 - Production
Start Date 08-MAR-2021 13:16:13
Uptime 0 days 0 hr. 0 min. 0 sec
Trace Level off
Security ON: Local OS Authentication
SNMP OFF
Listener Parameter File /u01/app/oracle/product/12.1.0.2/dbhome_1/network/admin/listener.ora
Listener Log File /u01/app/oracle/diag/tnslsnr/a0a2564a78cc/listener/alert/log.xml
Listening Endpoints Summary...
(DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=a0a2564a78cc)(PORT=1521)))
The listener supports no services
The command completed successfully
ORACLE instance started.
Total System Global Area 624951296 bytes
Fixed Size 2927480 bytes
Variable Size 281019528 bytes
Database Buffers 335544320 bytes
Redo Buffers 5459968 bytes
Database mounted.
Database opened.
Setting HTTP port to 8080
PL/SQL procedure successfully completed.
Please login to http://<ip_address>:8080/em to use enterprise manager
User: sys; Password oracle; Sysdba: true
Fixing permissions...
Running init scripts...
Init scripts in /oracle.init.d/: Ignoring /oracle.init.d/*
Done with scripts we are ready to go
```

Step – 7

Click on the second icon for docker terminal (CLI). Once you open your terminal, type in SQL command

> #sqlplus system/oracle@//localhost:1521/orcl

Once you type in the command, you will get the output of "SQL>" as shown in the image below


```
Last login: Mon Mar  8 23:19:19 on ttys001
docker exec -it a0a2564a78cc67308bd6fcd9e67a253656e98dc0aa7bc88a5a4e9cf56a672220
 /bin/sh
(base) kirtis-MBP:~ kirtikhade$ docker exec -it a0a2564a78cc67308bd6fcd9e67a2536
56e98dc0aa7bc88a5a4e9cf56a672220 /bin/sh
sh-4.2# sqlplus system/oracle@//localhost:1521/orcl

SQL*Plus: Release 12.1.0.2.0 Production on Mon Mar 8 13:24:40 2021

Copyright (c) 1982, 2014, Oracle.  All rights reserved.

Last Successful login time: Mon Mar 08 2021 13:19:29 +00:00

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing opt
ions

SQL>
```

Type in the SQL commands as shown in the

NOTE: All "S1234567" mentioned in the document should be replaced by your student ID to distinguish your work from others, case insensitive. Password is set to 'w'. Change username w.r.t your ID.

```
/*Enable user creation*/
ALTER SESSION SET "_ORACLE_SCRIPT"=TRUE;

/* Create a user named "USER_S1234567" with password "w" */
CREATE USER USER_S1234567 IDENTIFIED BY w ACCOUNT UNLOCK
DEFAULT TABLESPACE "USERS" TEMPORARY TABLESPACE "TEMP"
PROFILE "DEFAULT";

/* Grant DBA privilege to "USER_S1234567" */
GRANT DBA TO USER_S1234567;

/* Check if "USER_S1234567" has been created */
SELECT USERNAME FROM DBA_USERS;
```
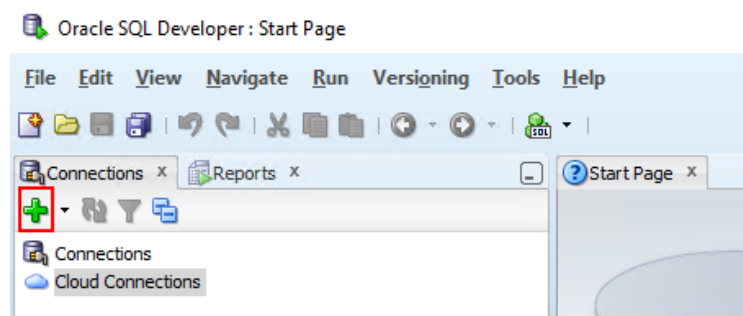
Step – 8

Download SQL Developer from https://www.oracle.com/tools/downloads/sqldev-downloads.html
- You will need JAVA to run this application from
  https://www.oracle.com/java/technologies/javase-downloads.html
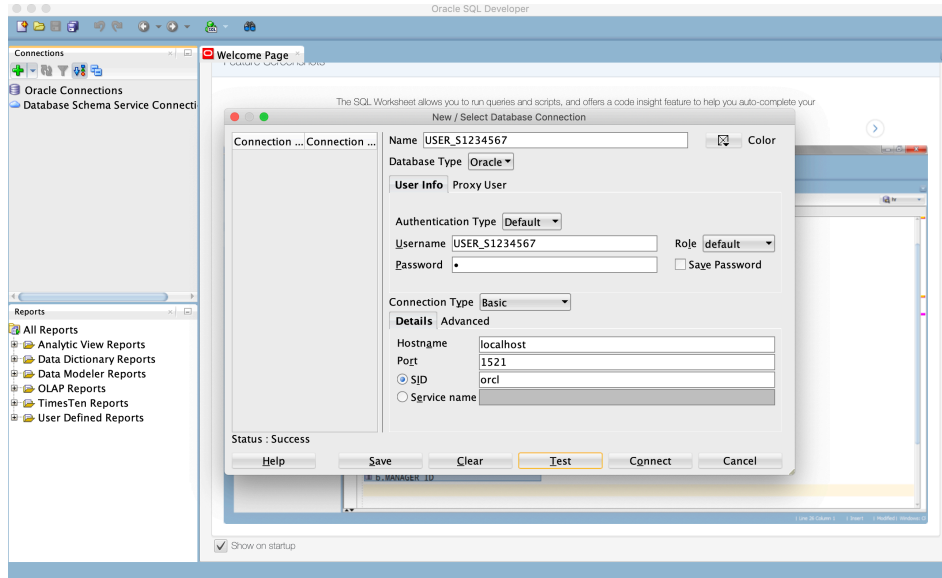- Restart if SQL developer is not able to identify Java

Step – 9

Open SQL Developer in the start menu. We will use it to connect as the user we just created. Click the green "+" button as shown below.

Step – 10

Connect to orcl

Step – 11

Final result: