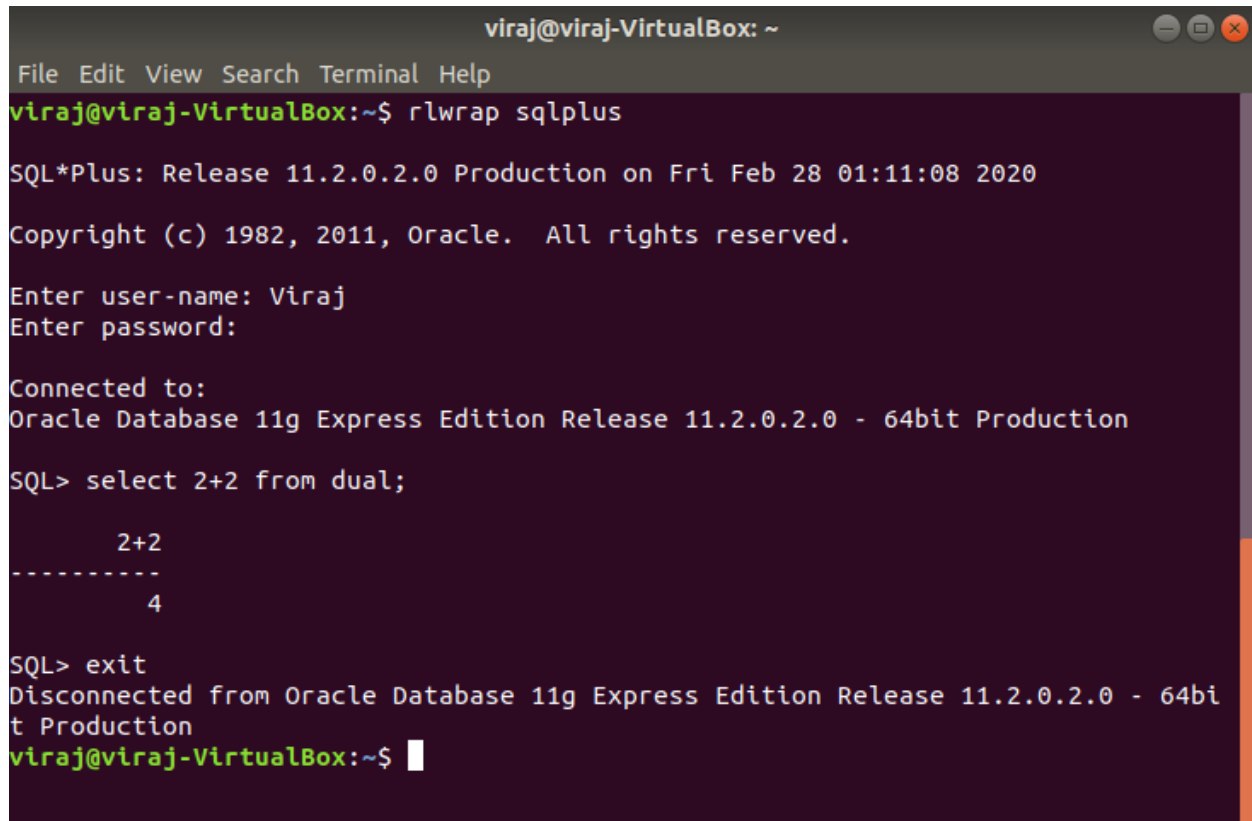


Homework #4

A screenshot of a terminal window titled 'viraj@viraj-VirtualBox: ~'. The terminal shows the execution of 'rlwrap sqlplus', which connects to an Oracle Database 11g Express Edition. The user 'Viraj' is prompted for a password. After connecting, the user runs the SQL command 'select 2+2 from dual;', which returns the result '4'. The user then exits the SQL*Plus session with 'exit', and the terminal returns to the shell prompt 'viraj@viraj-VirtualBox:~\$'.

Screenshot of SQL command Ubuntu using VirtualBox

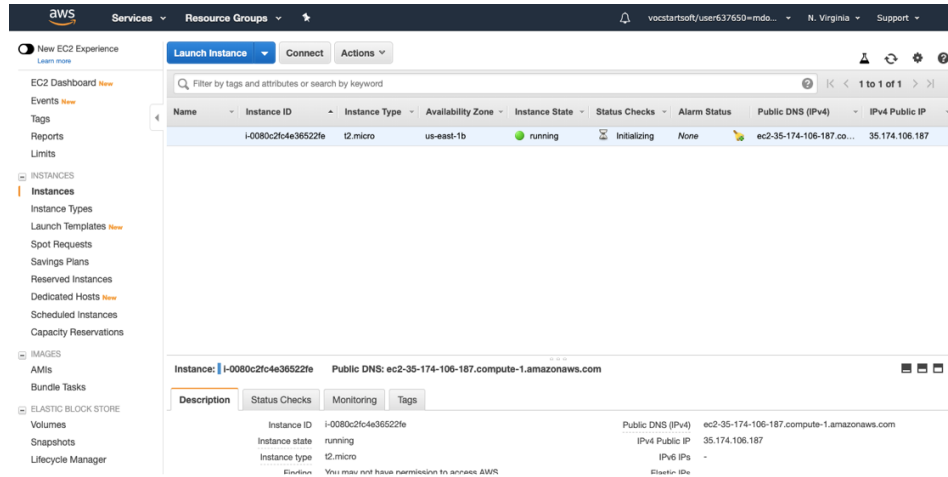
My lab experience was great, I learned a lot while installing ubuntu multiple times. The obstacles I had were quite few of them.

- ORA-01034: ORACLE NOT AVAILABLE
- ORA-27101: SHARED MEMORY REALM DOES NOT EXIST
- SQL- command not available
- Wrong ./bashrc file edited
- Low memory available
- init.ora not available
- oracle-xe command not found

I solved the errors by reinstalling the Ubuntu on VirtualBox, re-editing the ./bashrc file and increasing the memory of Ubuntu on VirtualBox.

While installing ubuntu on AWS I faced one obstacle i.e key pair downloaded on the system was a public key. Hence, the ssh -i key command didn't work. I had to use sudo ssh -i key and needed to authenticate the key using password then I was able to use Ubuntu. I worked on this project all by myself and not as a team.

Homework #4



```
Virajs-MacBook-Air:downloads virajsonavane$ sudo ssh -i Vkey1.pem ubuntu@35.174.106.187
```

Password:

[The authenticity of host '35.174.106.187 (35.174.106.187)' can't be established.

ECDSA key fingerprint is SHA256:taLQ8P4/gaInzABAwtfQKYDARK9f6abSBY0Y8XVf/0.

[Are you sure you want to continue connecting (yes/no)? yes

Warning: Permanently added '35.174.106.187' (ECDSA) to the list of known hosts.

Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-1057-aws x86_64)

```
* Documentation: https://help.ubuntu.com
* Management:   https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage
```

System information as of Sat Feb 29 04:14:31 UTC 2020

```
System load:  0.02      Processes:      89
Usage of /:   13.6% of 7.69GB  Users logged in:  0
Memory usage: 15%        IP address for eth0: 172.31.83.56
Swap usage:   0%
```

0 packages can be updated.
0 updates are security updates.

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

```
[ubuntu@ip-172-31-83-56:~]$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [8570 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/universe Translation-en [4941 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [151 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic/multiverse Translation-en [108 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [871 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/main Translation-en [303 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [32.9 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/restricted Translation-en [8468 B]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1054 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/universe Translation-en [326 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [10.1 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates/multiverse Translation-en [4636 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [2512 B]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/main Translation-en [1644 B]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [4028 B]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports/universe Translation-en [1900 B]
Get:21 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [651 kB]
Get:22 http://security.ubuntu.com/ubuntu bionic-security/main Translation-en [211 kB]
Get:23 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [23.8 kB]
Get:24 http://security.ubuntu.com/ubuntu bionic-security/restricted Translation-en [6528 B]
Get:25 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [649 kB]
Get:26 http://security.ubuntu.com/ubuntu bionic-security/universe Translation-en [218 kB]
Get:27 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [6760 B]
Get:28 http://security.ubuntu.com/ubuntu bionic-security/multiverse Translation-en [2700 B]
Fetched 18.4 MB in 4s (4842 kB/s)
Reading package lists... Done
```

Screenshot of SQL command Ubuntu using AWS