BIT2008A/ITEC2000A: Multimedia Data Management
Fall 2022

Lab 1

1. SQL Setup

This is an easy and safe way to create an isolated environment to do the coding for this course. Please follow these steps:

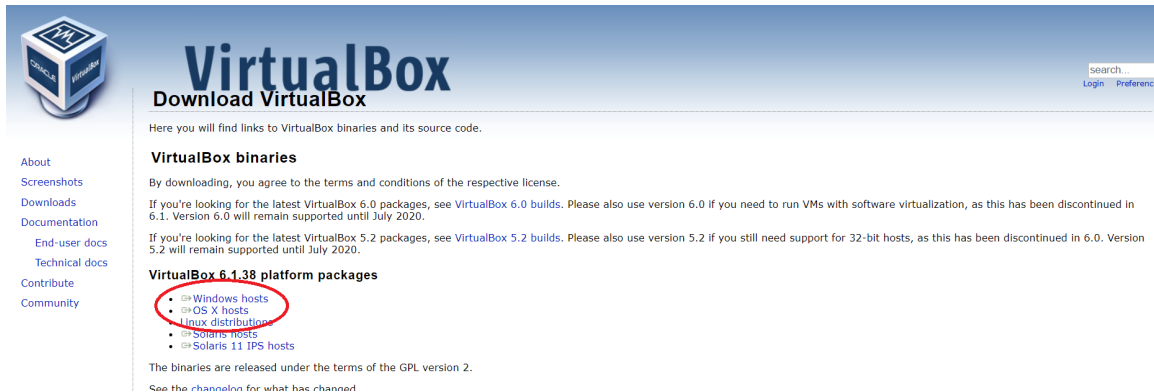1) Download Oracle VirtualBox application for free, using this link.   The installation process is rather

FIGURE 1. VirtualBox download page.

straight forward.

2) Download Ubuntu image from this link.
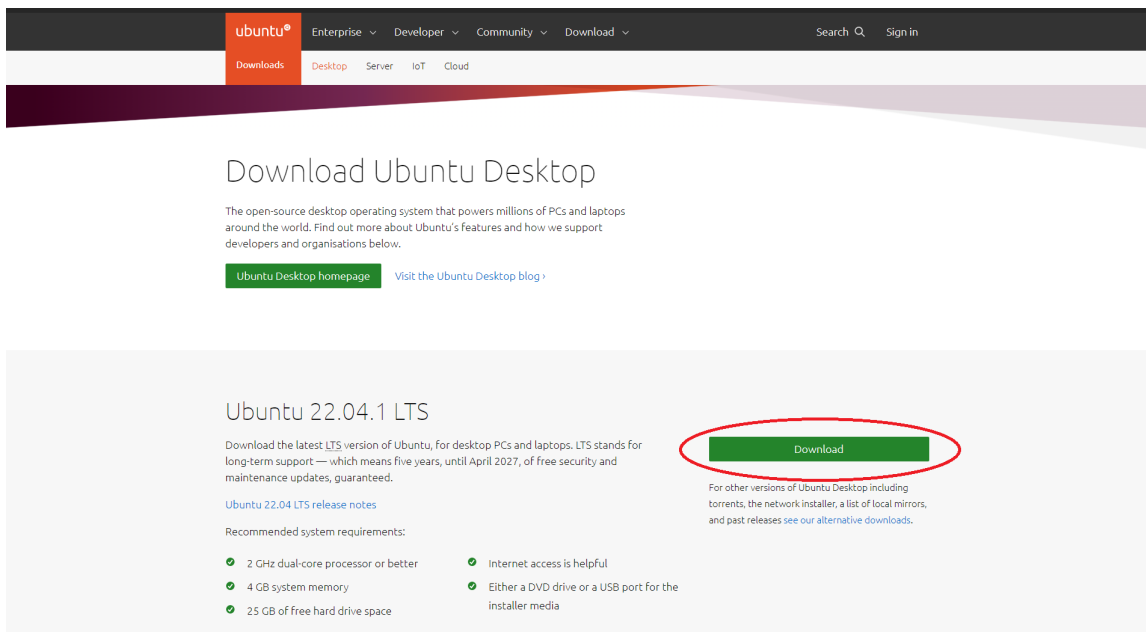

FIGURE 2. Ubuntu dowload page.

3) Run VirtualBox. Then click on New as shown in Fig.3.
4) Specify the machine name and folder as shown in Fig.4.
5) Move Ubuntu image to the machine folder recently created at the directory that you specified.
6) Assign a memory size on the green spectrum as shown in Fig.5.
7) Stick to the defaults until you can specify the storage as shown in Fig.6.
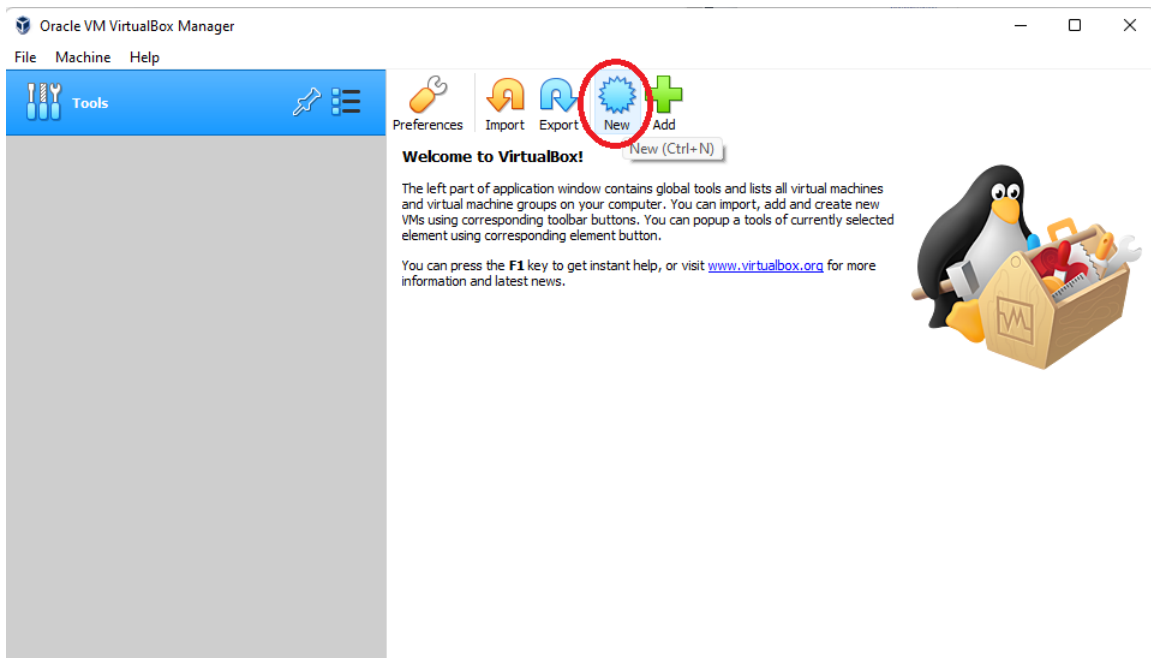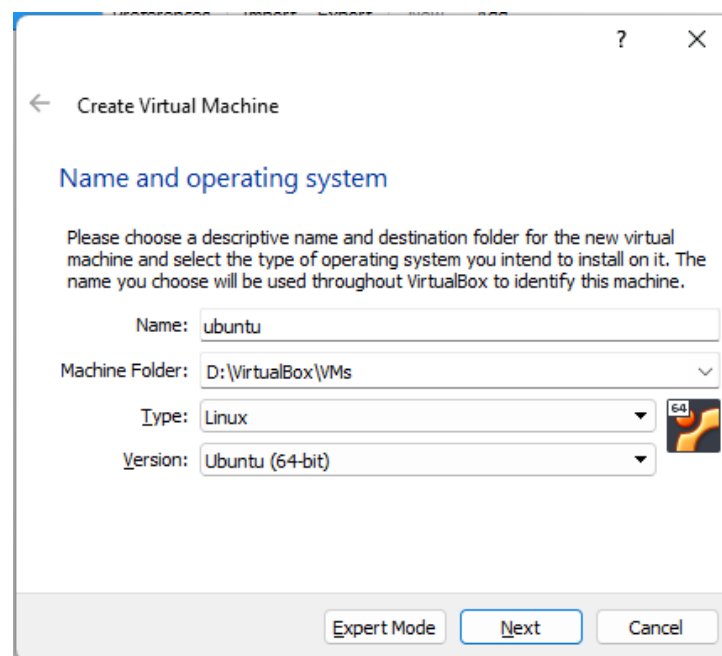8) Click on the Settings tab as shown in Fig.7.

FIGURE 3. New virtual machine.

FIGURE 4. VM location.

9) Change these options to improve performance based on your system specifications as shown in Fig.8.

10) Press start and choose the disk image that you moved to the machine folder. Wait for the image to boot then choose "Try or install Ubuntu".

11) Proceed with the installation. Choose extra software to be installed as shown in Fig.9.

12) After the installation is complete, power off the VM, remove the disk image as shown in Fig.10, and then start the VM again.

13) Next, install PostgreSQL using this link.

14) Now create your user based on the OS username so you have easier terminal access.
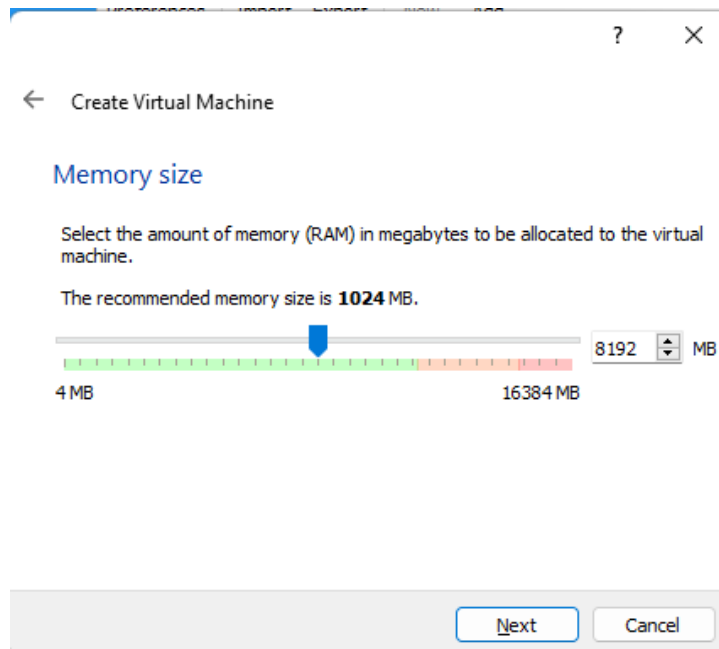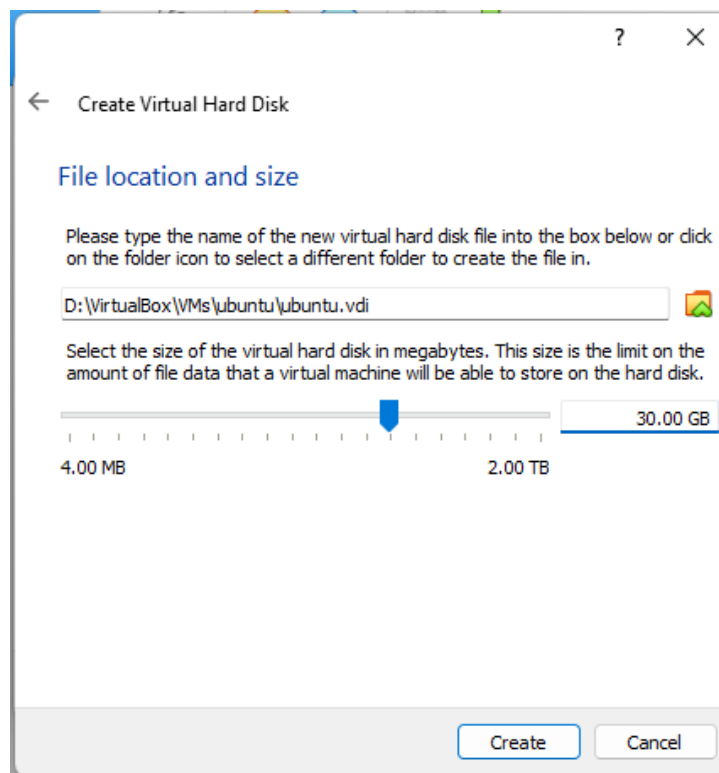
FIGURE 5. Memory size.

FIGURE 6. Storage size.

```
1 echo $USER
2 sudo su - postgres
3 psql
4
5 CREATE USER testuser WITH PASSWORD '1234';
6 -- ALTER USER testuser WITH PASSWORD 'newpassword';
7 ALTER USER testuser WITH SUPERUSER;
```
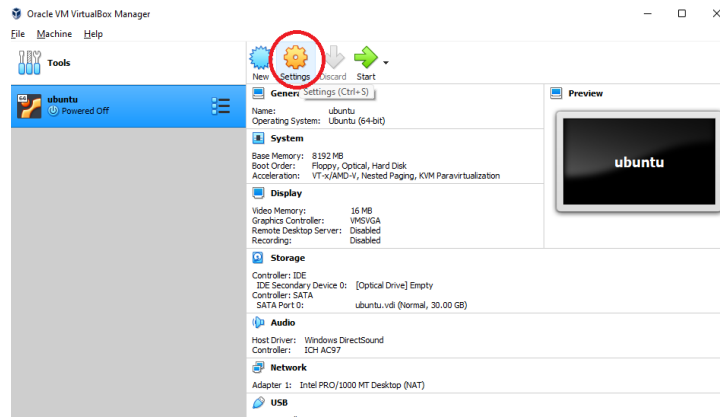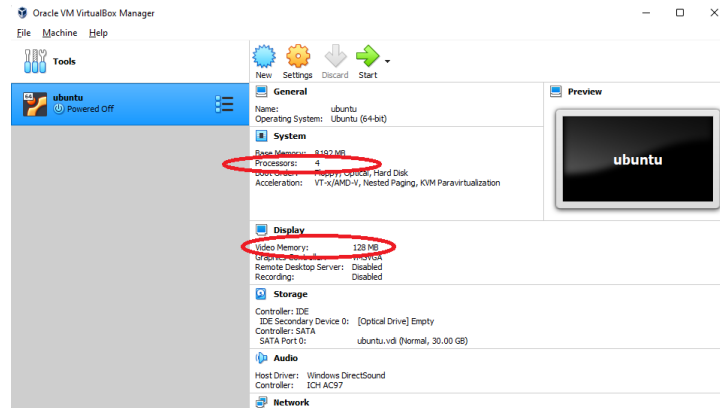
LISTING 1. psql commands.

FIGURE 7. VM settings.

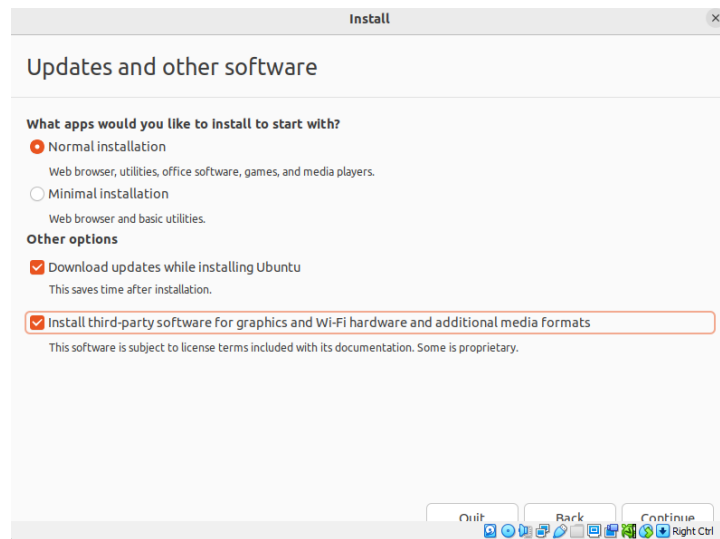

FIGURE 8. VM settings parameters.

FIGURE 9. VM extra software installation.

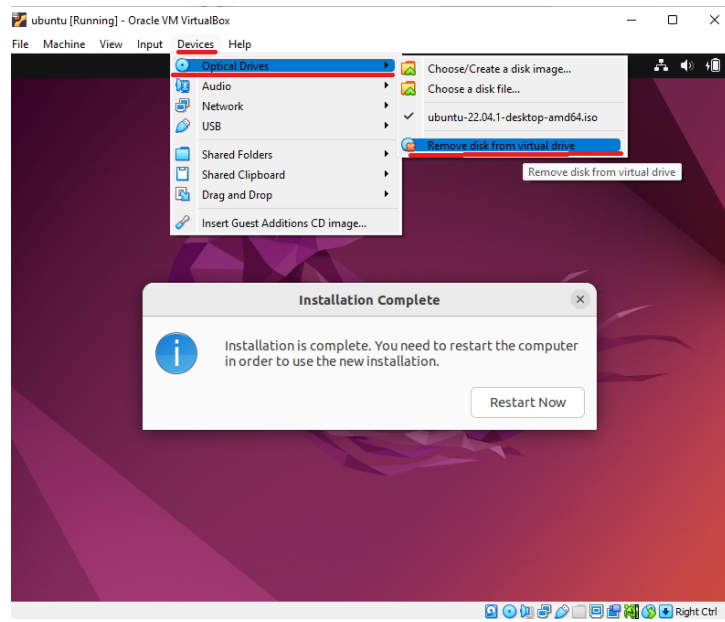15) Finally, continue install pgAdmin4 web interface and try to connect to your database following this link.

FIGURE 10. Remove disk image.