

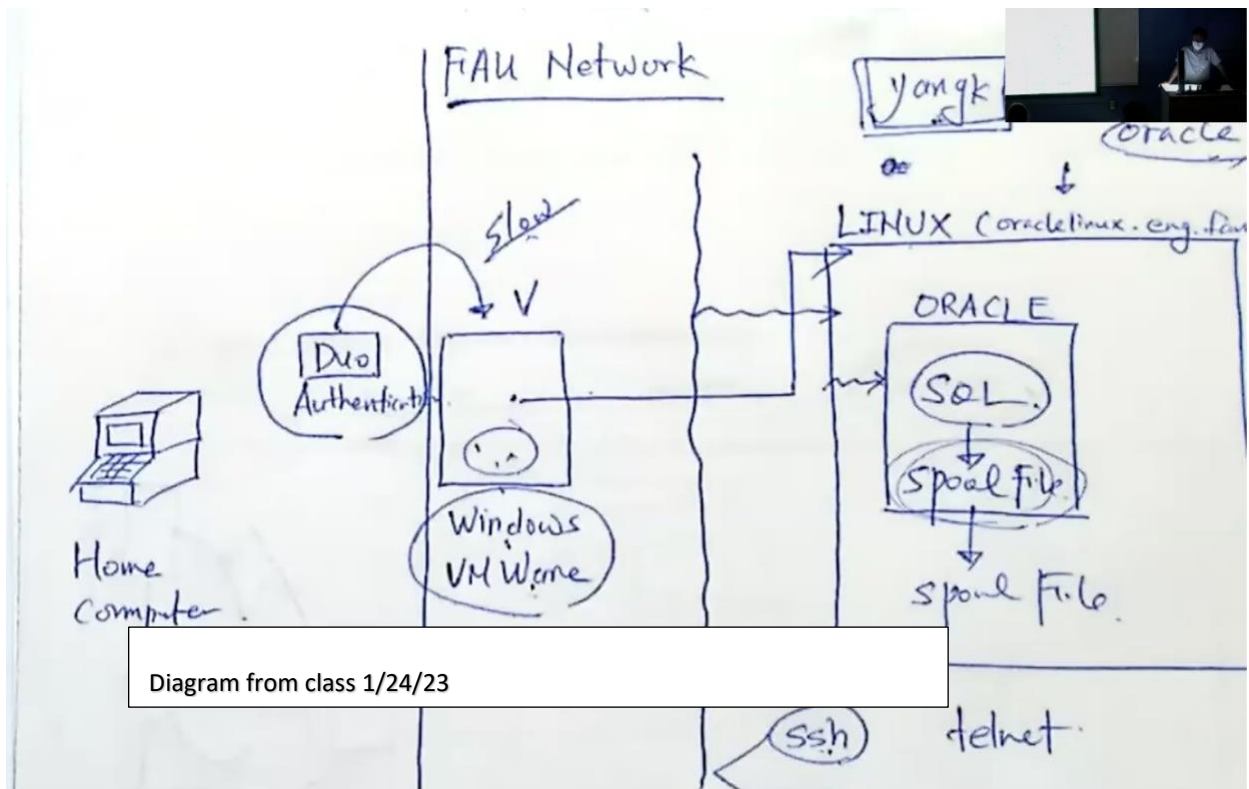
COP_6731_ACCESS_ORACLE_V2

[Link to Dr. Yang's Instructions – FAU Oracle Database Access](#)

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- Note: these are some basic steps and just one way to approach the process



ACCESS VMWARE THROUGH PORTAL

https://faculty.eng.fau.edu/yangk/COP6731/setup.html

Home : Florida Atlantic University

Supplementary FAU Oracle Database Access Extra Credits

- Home
- Supplementary
- FAU Oracle Database Access
- Extra Credits
- spot.fau.edu

COP 6731 Theory and Implementation of Database Systems

FAU Oracle Database Access

We will use the FAU Oracle database system to practice SQL queries. Please see the following steps to access the oracle DBMS.

1) Access VMware through <https://portal.eng.fau.edu> to an external site.

Two-factor and multi-factor authentication (i.e, Duo) is required to access VMware. Please see the following attached files.

- Enable_Duo_Multifactor_Authentication.pdf
- Reactivate_Duo_Mobile.pdf
- Change_Duo_default_to_Automatic_Push.pdf
- VMware_logon_with_Duo_Push.pdf
- VMware_logon_with_Phone.pdf
- VMware_logon_with_SMS.pdf
- VMware_logon_with_Token.pdf

See the CoECS VMWare Guide [here](#)



VMware Horizon

You can connect to your desktop and applications by using the VMware Horizon Client or through the browser.

The VMware Horizon Client offers better performance and features.



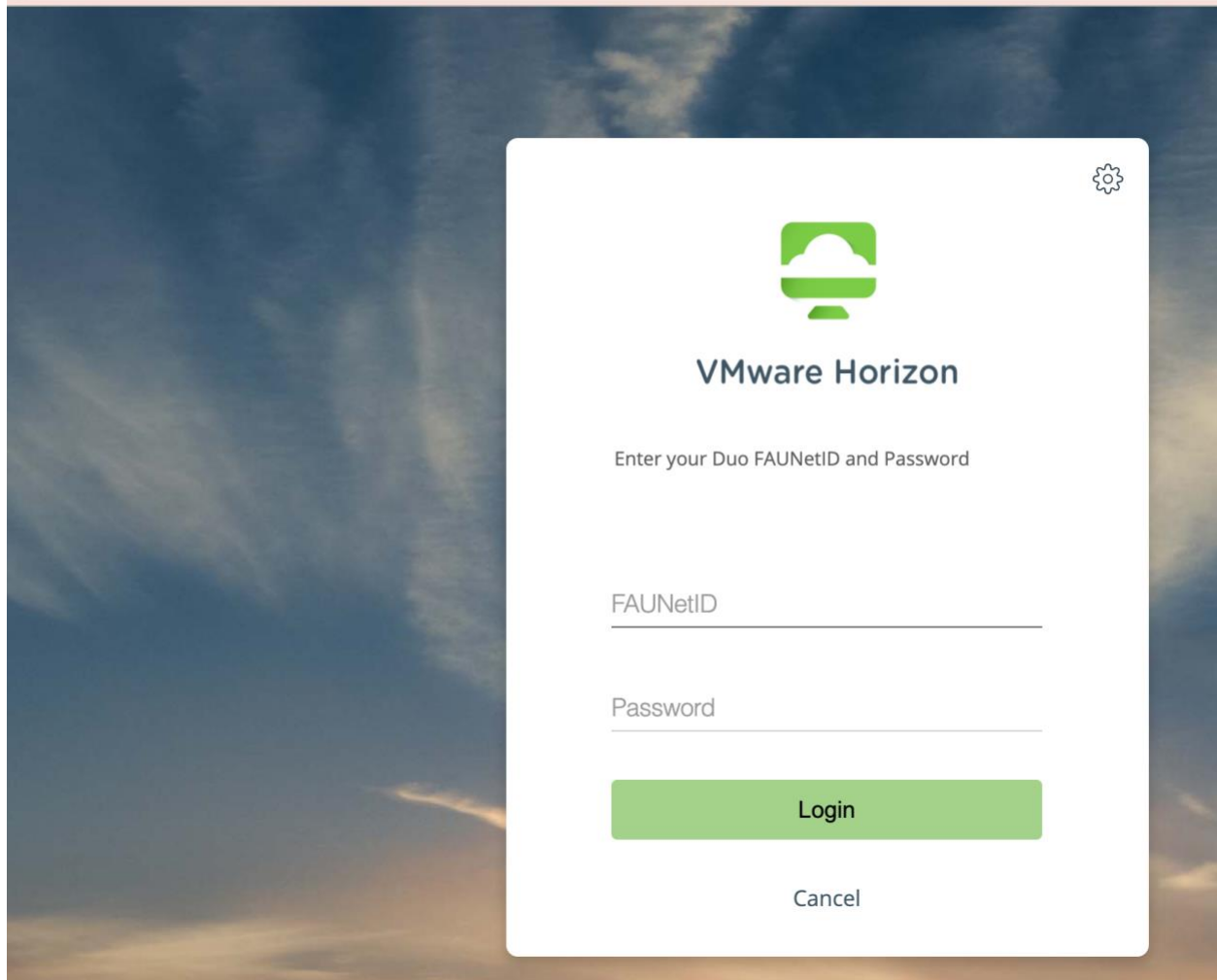
Install VMware
Horizon Client



VMware Horizon
HTML Access

☐ Check here to skip this screen and always use HTML Access.

https://portal.eng.fau.edu/portal/webclient/index.html#/



The login screen features a white card centered on a background of a blue sky with wispy clouds. At the top right of the card is a gear icon. Below it is a green icon of a monitor with a cloud inside. The text "VMware Horizon" is centered below the icon. Underneath is the instruction "Enter your Duo FAUNetID and Password". There are two input fields: "FAUNetID" and "Password". Below these is a green "Login" button and a "Cancel" link.

VMware Horizon

Enter your Duo FAUNetID and Password

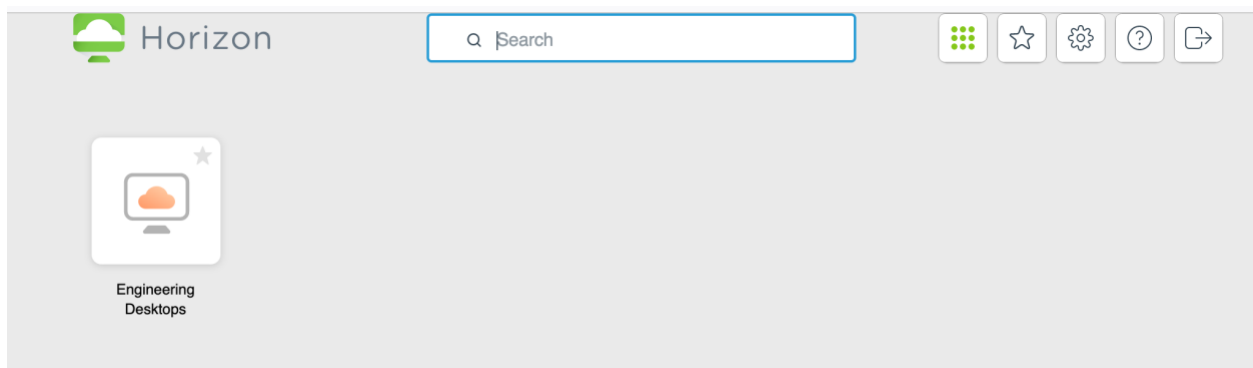
FAUNetID

Password

Login

Cancel

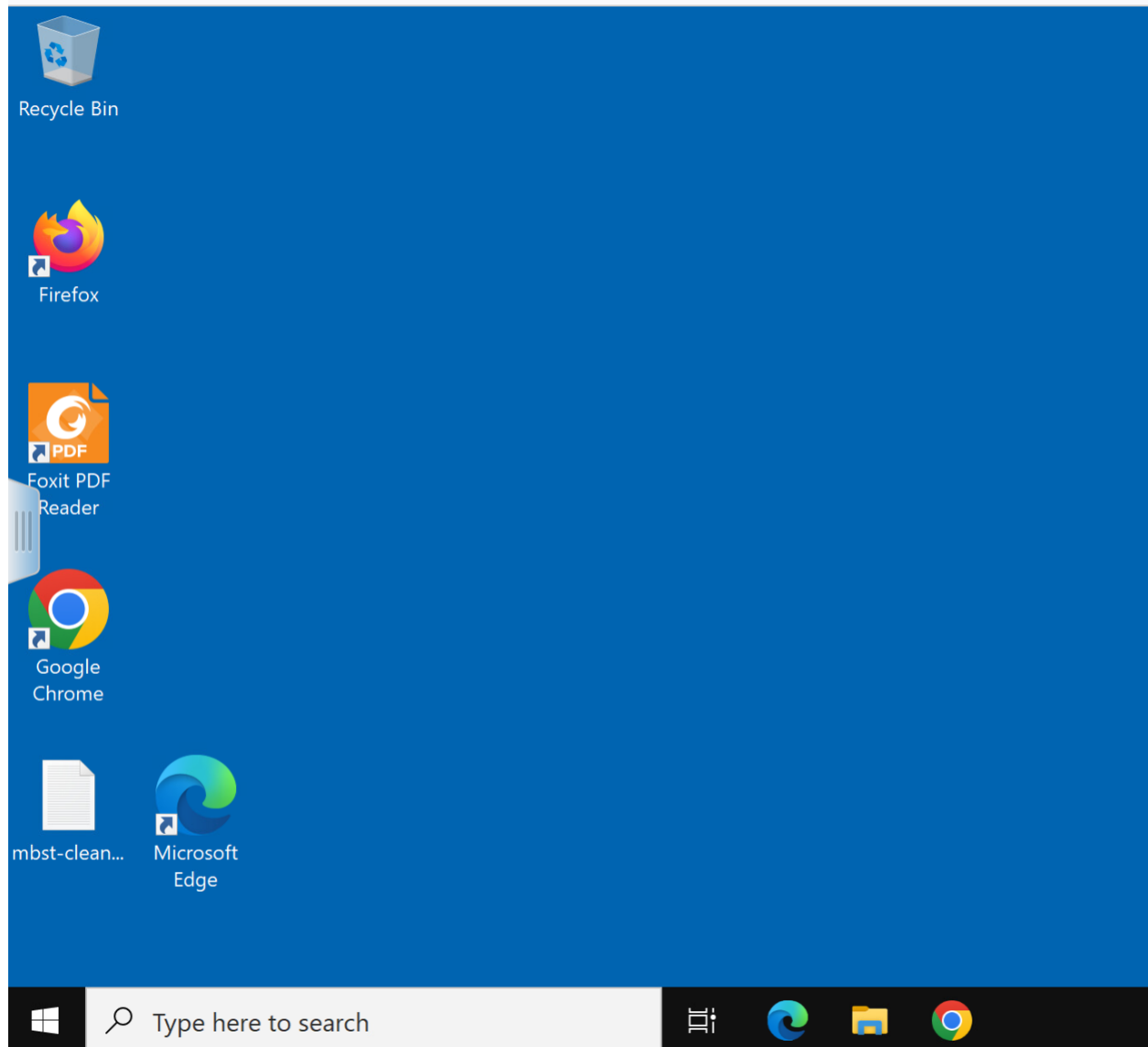
LOG IN TO THE ENGINEERING DESKTOPS



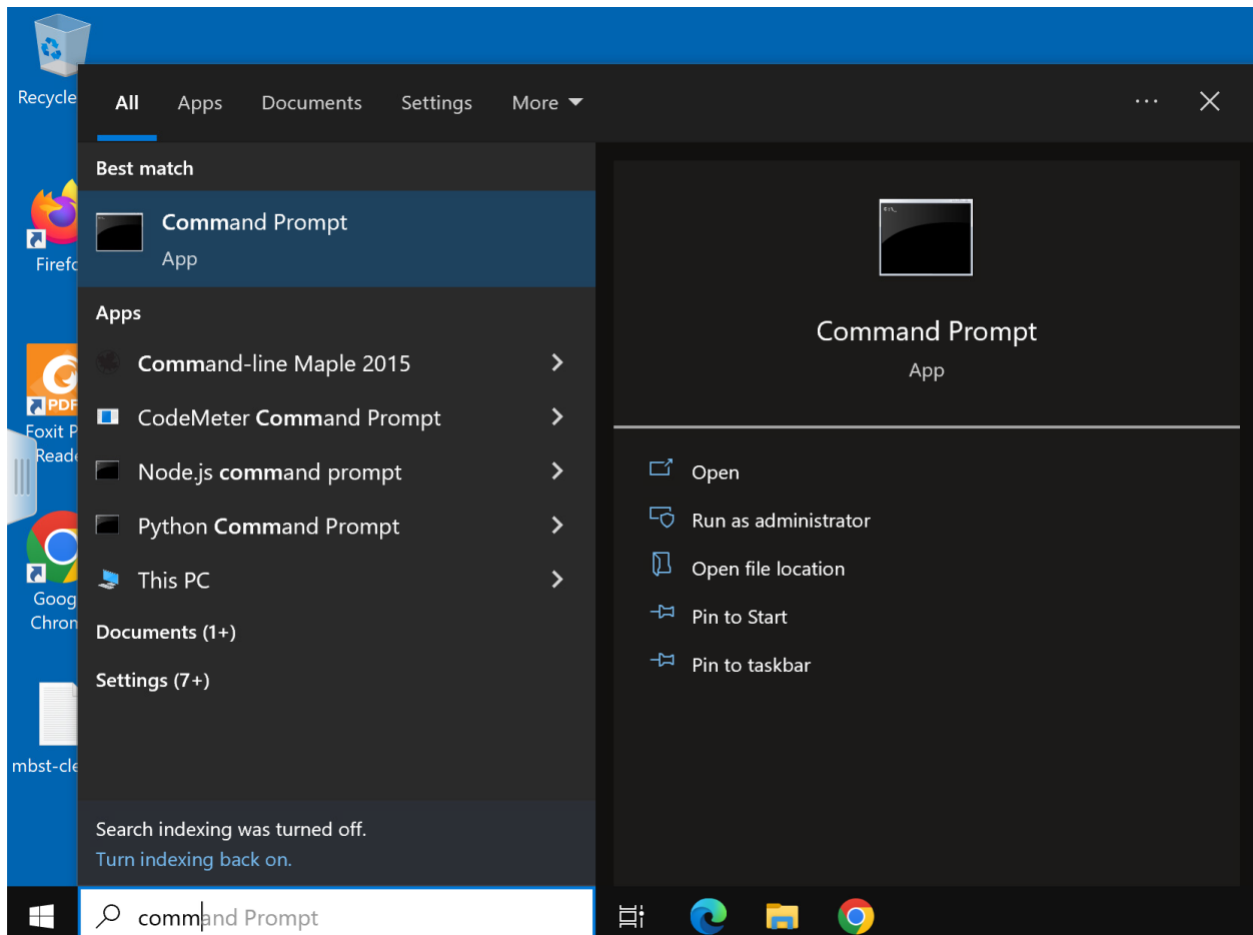


Renee Raven

⌵ Applying Group Policy Drive Maps policy



ACCESS THE TERMINAL FROM THE WINDOWS DESKTOP (IN VMWARE)



SSH INTO ORACLELINUX.ENG.FAU.EDU

At the prompt type `ssh your_user_name@oraclelinux.eng.fau.edu`

`your_user_name` is the name for your FAU email address, i.e. `rraven2021@fau.edu`


```
Command Prompt
Microsoft Windows [Version 10.0.19044.2364]
(c) Microsoft Corporation. All rights reserved.

C:\Users\raven2021>ssh raven2021@oraclelinux.eng.fau.edu_
```

Default password is “oracle”

```
raven2021@localhost:~
Microsoft Windows [Version 10.0.19044.2364]
(c) Microsoft Corporation. All rights reserved.

C:\Users\raven2021>ssh raven2021@oraclelinux.eng.fau.edu
raven2021@oraclelinux.eng.fau.edu's password:
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Wed Jan 25 17:59:41 2023 from 10.15.137.128
ORACLE_BASE environment variable is not being set since this
information is not available for the current user ID raven2021.
You can set ORACLE_BASE manually if it is required.
Resetting ORACLE_BASE to its previous value or ORACLE_HOME
The Oracle base has been set to /opt/oracle/product/18c/dbhomeXE
[raven2021@localhost ~]$
```

ENTER ORACLE DATABASE SERVER WITH SQL*PLUS COMMAND

At prompt type sqlplus your_user_name

Default password is “oracle”

```
[rraven2021@localhost ~]$ sqlplus rraven2021

SQL*Plus: Release 18.0.0.0.0 - Production on Thu Jan 26 20:54:57 2023
Version 18.4.0.0.0

Copyright (c) 1982, 2018, Oracle. All rights reserved.

Enter password:
Last Successful login time: Wed Jan 25 2023 18:02:14 -05:00

Connected to:
Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production
Version 18.4.0.0.0

SQL> _
```

Type here to search

CREATE TABLE (EXAMPLE)

```
SQL> create table student ( zno int, name varchar2(100));

Table created.

SQL> _
```

```
SQL> desc student;

Name                                Null?    Type
-----
ZNO                                  NUMBER(38)
NAME                                VARCHAR2(100)

SQL> _
```

Create row

```
SQL> insert into student (zno, name) values (1, 'James');

1 row created.
```

(optional) set linesize 200; for more organized output

```
SQL> set linesize 200;  
SQL> select * from student;
```

	ZNO	NAME
1		James

CREATE SPOOL FILE

```
SQL> spool 'out.txt'  
SQL> !ls  
out.txt  
  
SQL> █
```

Run queries

```
SQL> select * from tab;
```

TNAME	TABTYPE	CLUSTERID
STUDENT	TABLE	

```
SQL> select * from student;
```

	ZNO	NAME
1		James

```
SQL>
```

END SPOOL FILE WITH SPOOL OFF COMMAND & THEN EXIT

```

SQL>
SQL> spool off
SQL> ;
1* select * from student
SQL> exit
Disconnected from Oracle Database 18c Express Edition Release 18.0.0.0.0 - Production
Version 18.4.0.0.0
[rraven2021@localhost ~]$


```

VERIFY SPOOL FILE IS PRESENT WITH EITHER LS -AL OR LS

```

[rraven2021@localhost ~]$
[rraven2021@localhost ~]$ ls -al
total 40
drwx-----.  4 rraven2021 rraven2021  160 Jan 26 21:05 .
drwxr-xr-x. 193 root      root      8192 Jan 25 15:32 ..
-rw-----.  1 rraven2021 rraven2021   55 Jan 25 18:02 .bash_history
-rw-r--r--.  1 rraven2021 rraven2021   18 May 21  2021 .bash_logout
-rw-r--r--.  1 rraven2021 rraven2021  141 May 21  2021 .bash_profile
-rw-r--r--.  1 rraven2021 rraven2021  376 May 21  2021 .bashrc
drwx-----.  3 rraven2021 rraven2021   19 Jan 25 15:33 .config
-rw-----.  1 rraven2021 rraven2021   16 Jan 25 15:33 .esd_auth
-rw-r--r--.  1 rraven2021 rraven2021  172 Apr 29  2020 .kshrc
drwxr-xr-x.  4 rraven2021 rraven2021   39 Aug 31  2021 .mozilla
-rw-rw-r--.  1 rraven2021 rraven2021 1487 Jan 26 21:12 out.txt
[rraven2021@localhost ~]$

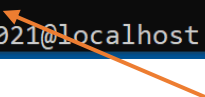
```



```

[rraven2021@localhost ~]$
[rraven2021@localhost ~]$ ls -al
total 40
drwx-----.  4 rraven2021 rraven2021  160 Jan 26 21:05 .
drwxr-xr-x. 193 root      root      8192 Jan 25 15:32 ..
-rw-----.  1 rraven2021 rraven2021   55 Jan 25 18:02 .bash_history
-rw-r--r--.  1 rraven2021 rraven2021   18 May 21  2021 .bash_logout
-rw-r--r--.  1 rraven2021 rraven2021  141 May 21  2021 .bash_profile
-rw-r--r--.  1 rraven2021 rraven2021  376 May 21  2021 .bashrc
drwx-----.  3 rraven2021 rraven2021   19 Jan 25 15:33 .config
-rw-----.  1 rraven2021 rraven2021   16 Jan 25 15:33 .esd_auth
-rw-r--r--.  1 rraven2021 rraven2021  172 Apr 29  2020 .kshrc
drwxr-xr-x.  4 rraven2021 rraven2021   39 Aug 31  2021 .mozilla
-rw-rw-r--.  1 rraven2021 rraven2021 1487 Jan 26 21:12 out.txt
[rraven2021@localhost ~]$ ls
out.txt
[rraven2021@localhost ~]$

```



EXIT TO VMWARE DESKTOP

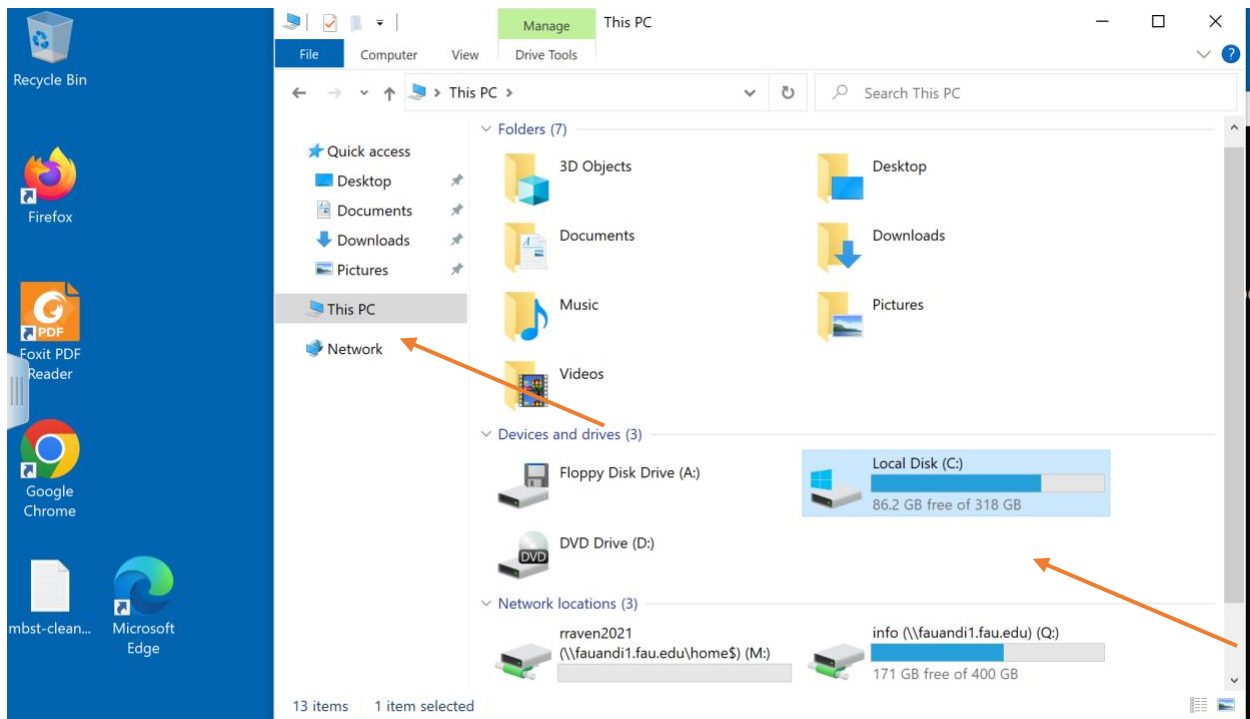
```
[rraven2021@localhost ~]$ exit  
logout  
Connection to oraclelinux.eng.fau.edu closed.  
C:\Users\rraven2021>
```

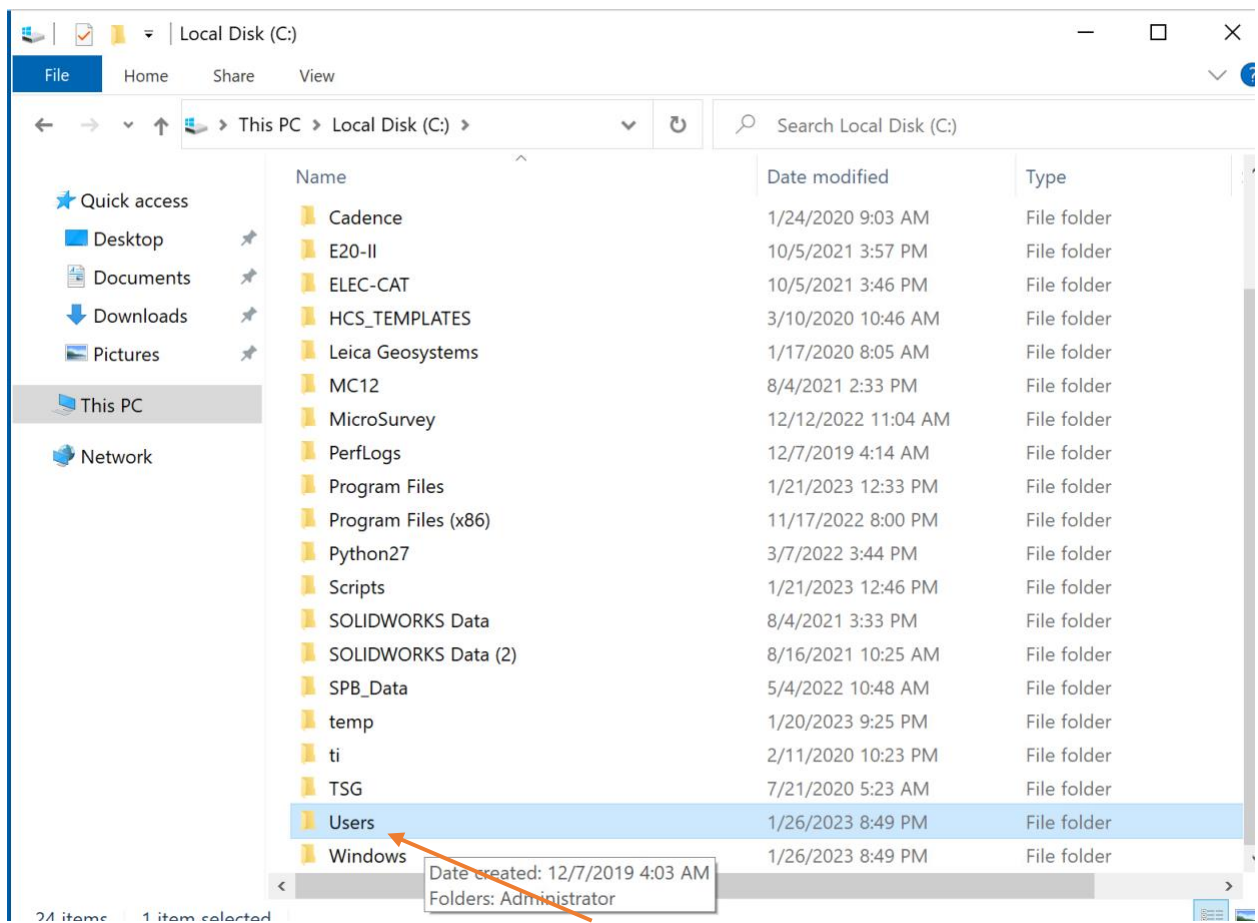
SFTP TO GET SPOOL FILE AND DOWNLOAD IT TO VMWARE DESKTOP & EXIT

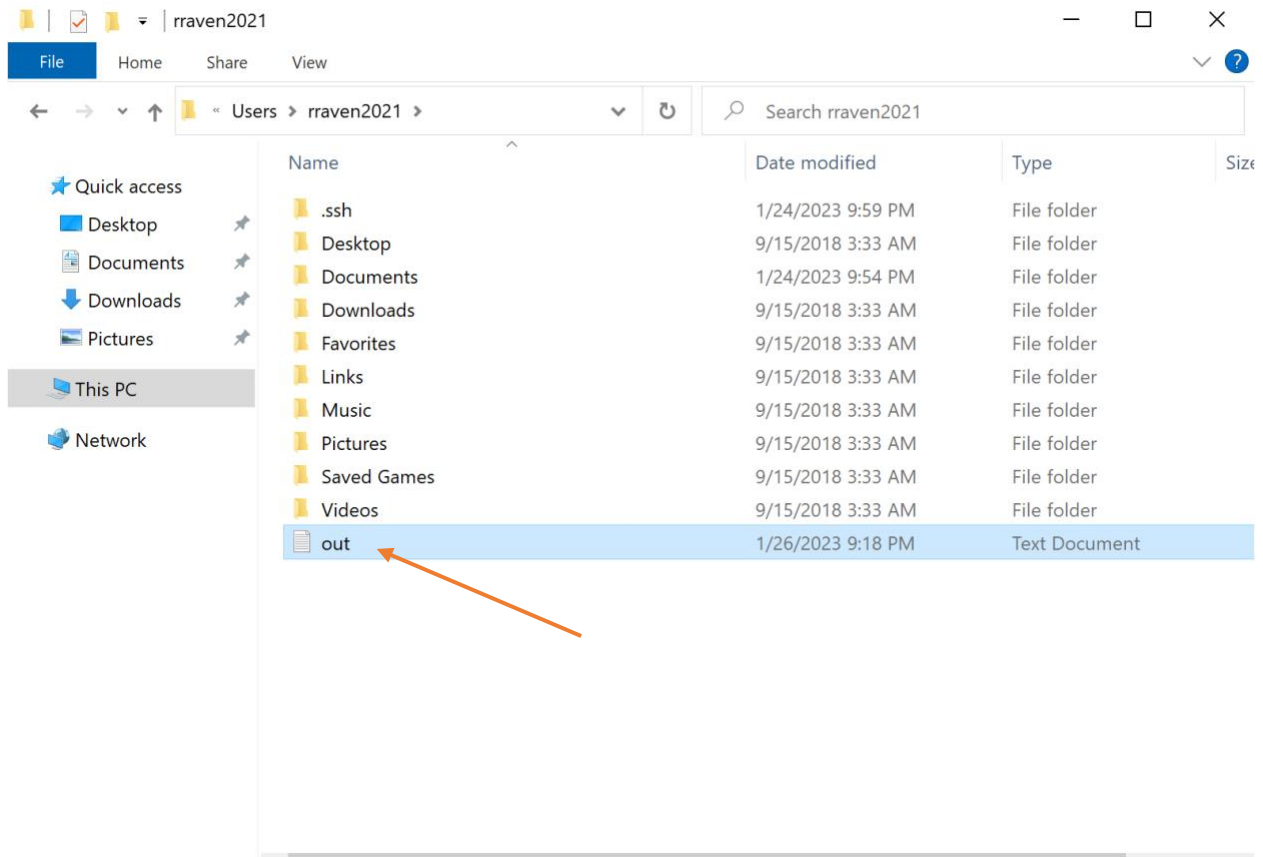
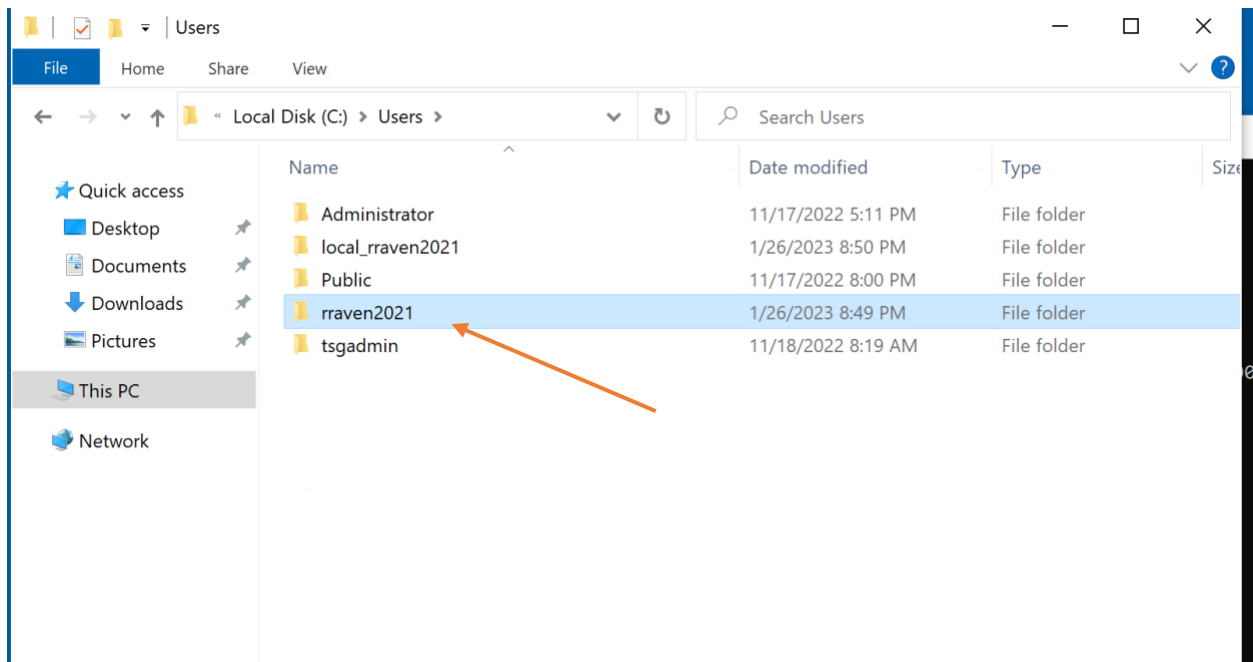
```
C:\Users\rraven2021>sftp rraven2021@oraclelinux.eng.fau.edu  
rraven2021@oraclelinux.eng.fau.edu's password:  
Connected to oraclelinux.eng.fau.edu.  
sftp> ls  
out.txt  
sftp> get out.txt  
Fetching /home/rraven2021/out.txt to out.txt  
/home/rraven2021/out.txt  
sftp> exit  
  
C:\Users\rraven2021>  
C:\Users\rraven2021>
```

FIND SPOOL FILE IN VMWARE DESKTOP

This PC -> Local Disk (C) -> Users -> your_user_name

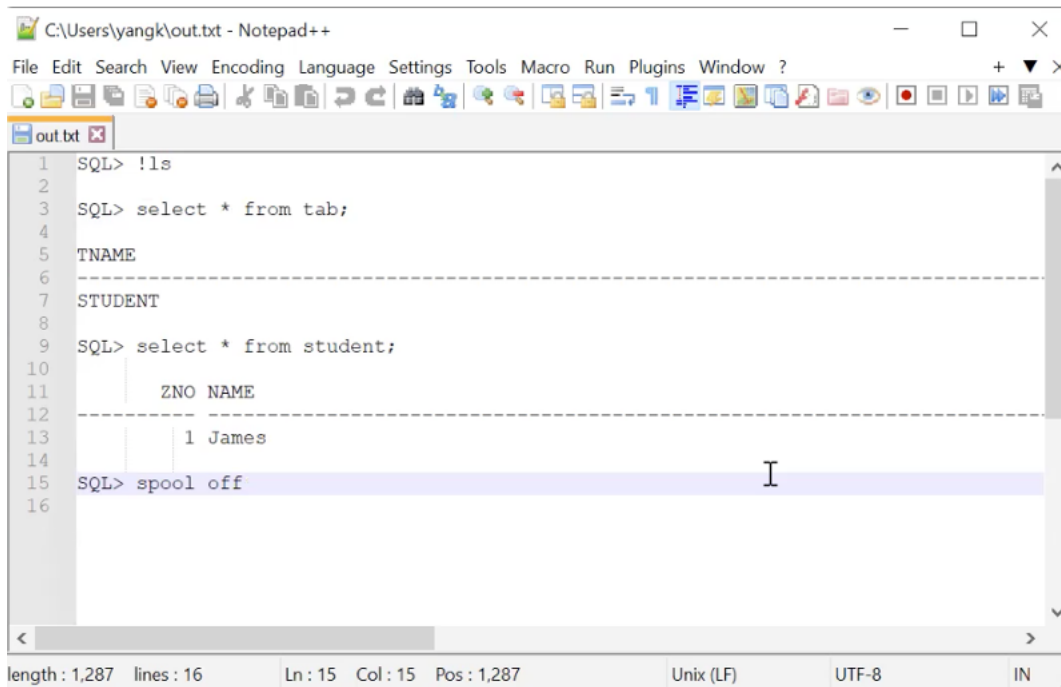






MAKE SURE THE SPOOL FILE HAS ALL THE SQL QUERIES AND THE CORRECT OUTPUT

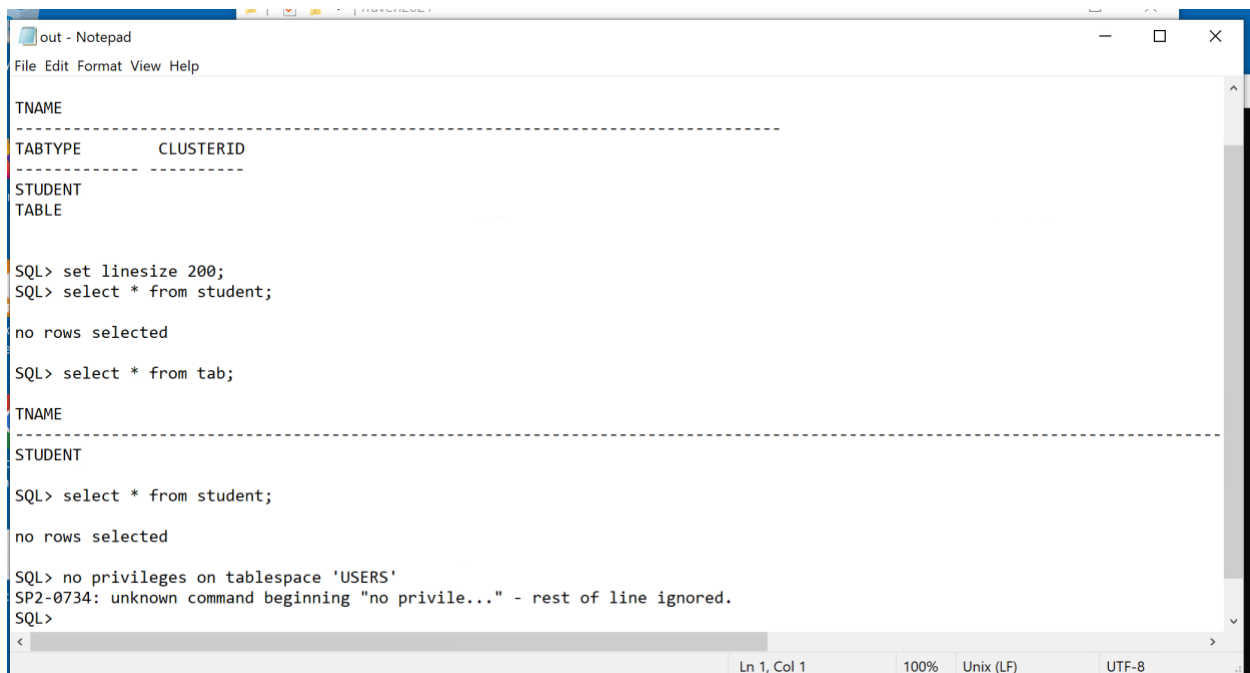
Right click and select Notepad ++ to view file



```
1 SQL> !ls
2
3 SQL> select * from tab;
4
5 TNAME
6 -----
7 STUDENT
8
9 SQL> select * from student;
10
11      ZNO NAME
12 -----
13      1 James
14
15 SQL> spool off
16
```

length: 1,287 lines: 16 Ln: 15 Col: 15 Pos: 1,287 Unix (LF) UTF-8 IN

Or double click to view in Notepad



```
out - Notepad
File Edit Format View Help

TNAME
-----
TABTYPE      CLUSTERID
-----
STUDENT
TABLE

SQL> set linesize 200;
SQL> select * from student;

no rows selected

SQL> select * from tab;

TNAME
-----
STUDENT

SQL> select * from student;

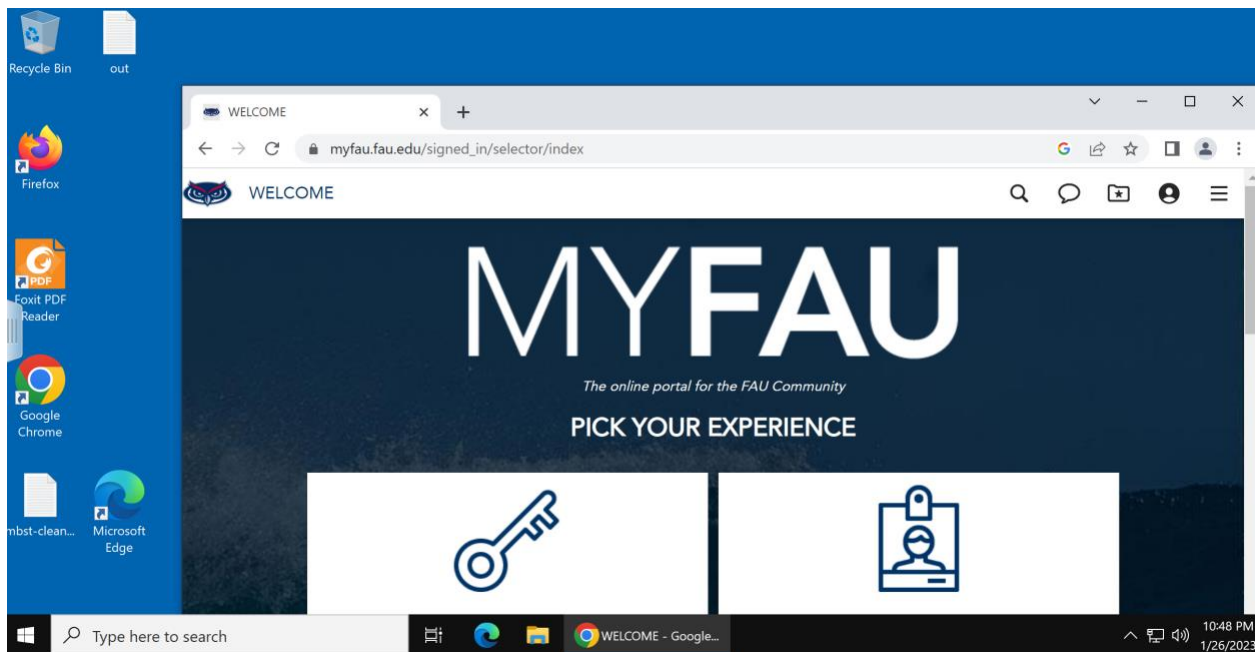
no rows selected

SQL> no privileges on tablespace 'USERS'
SP2-0734: unknown command beginning "no privile..." - rest of line ignored.
SQL>
```

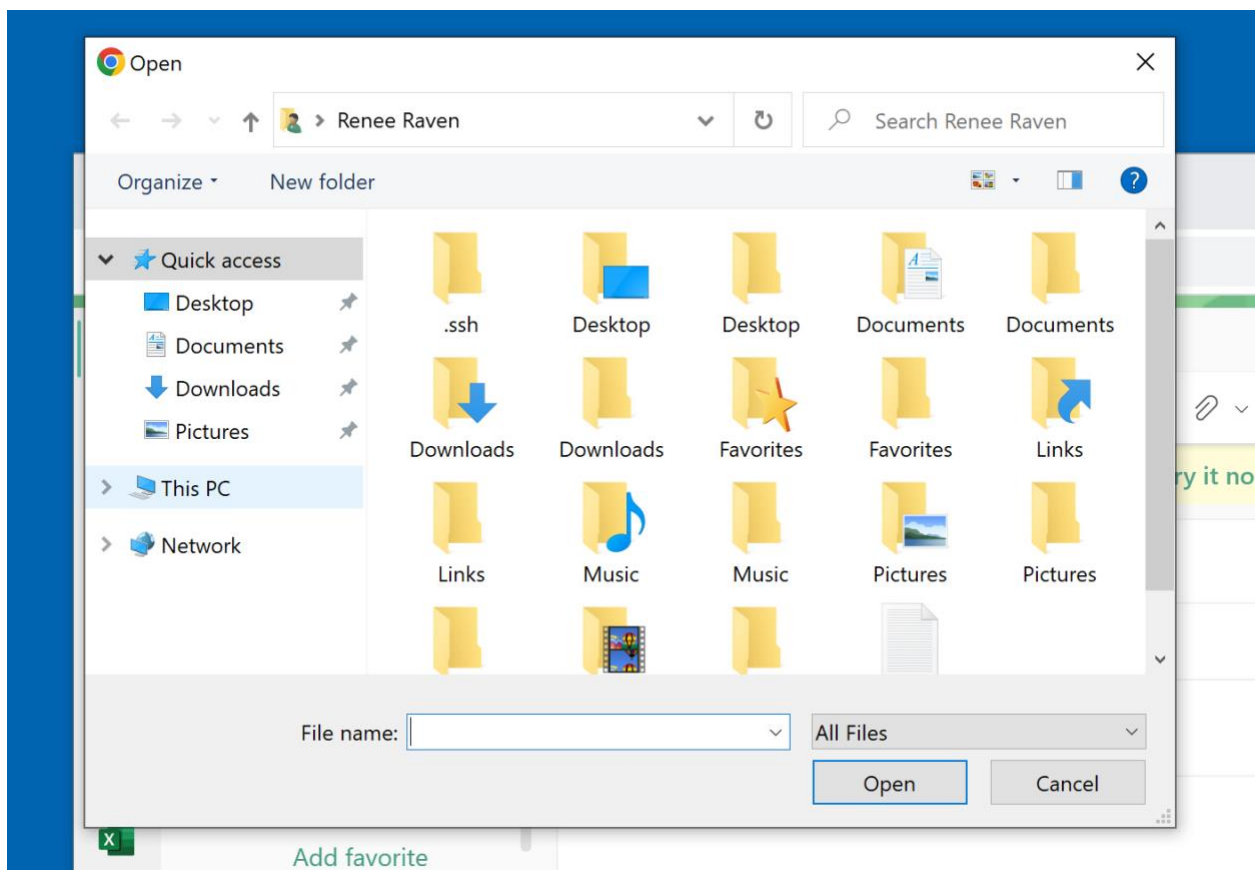
Ln 1, Col 1 100% Unix (LF) UTF-8

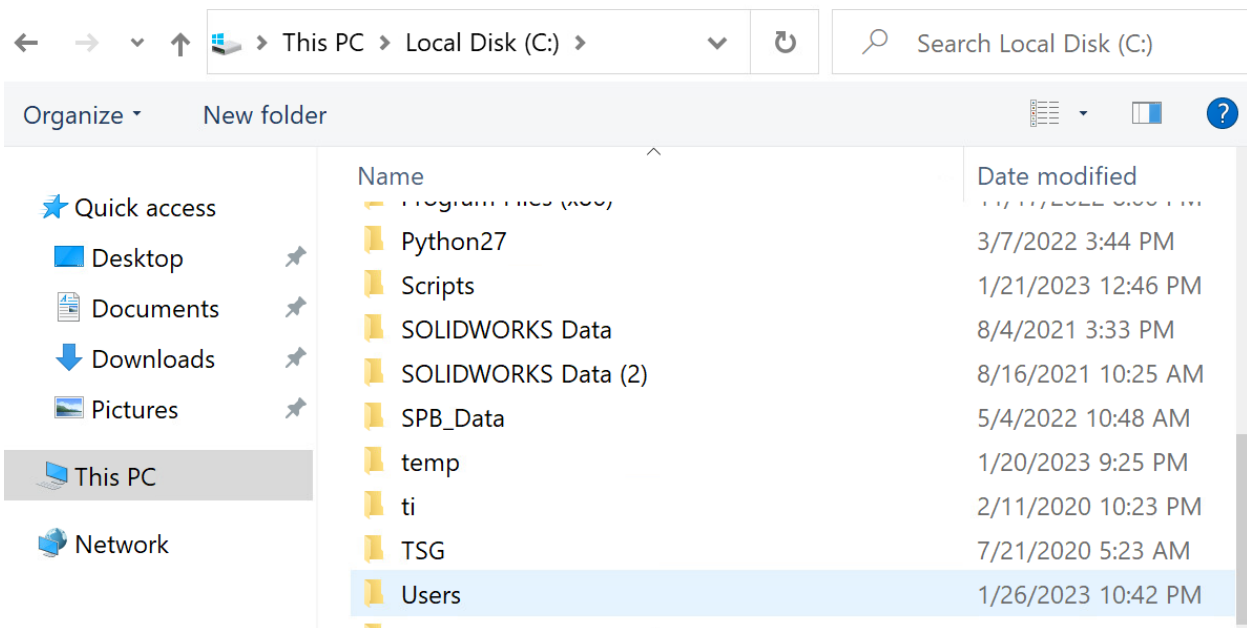
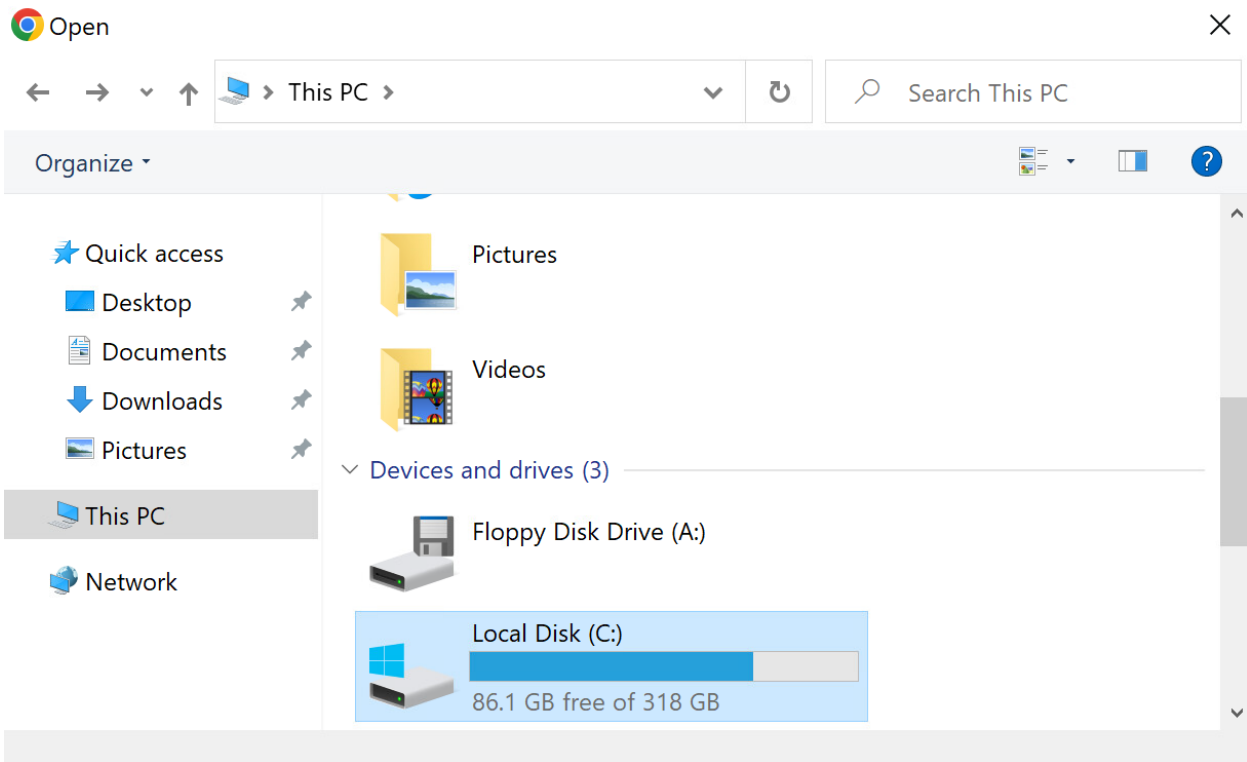
UPLOAD THE SPOOL FILE FROM THE VMWARE DESKTOP

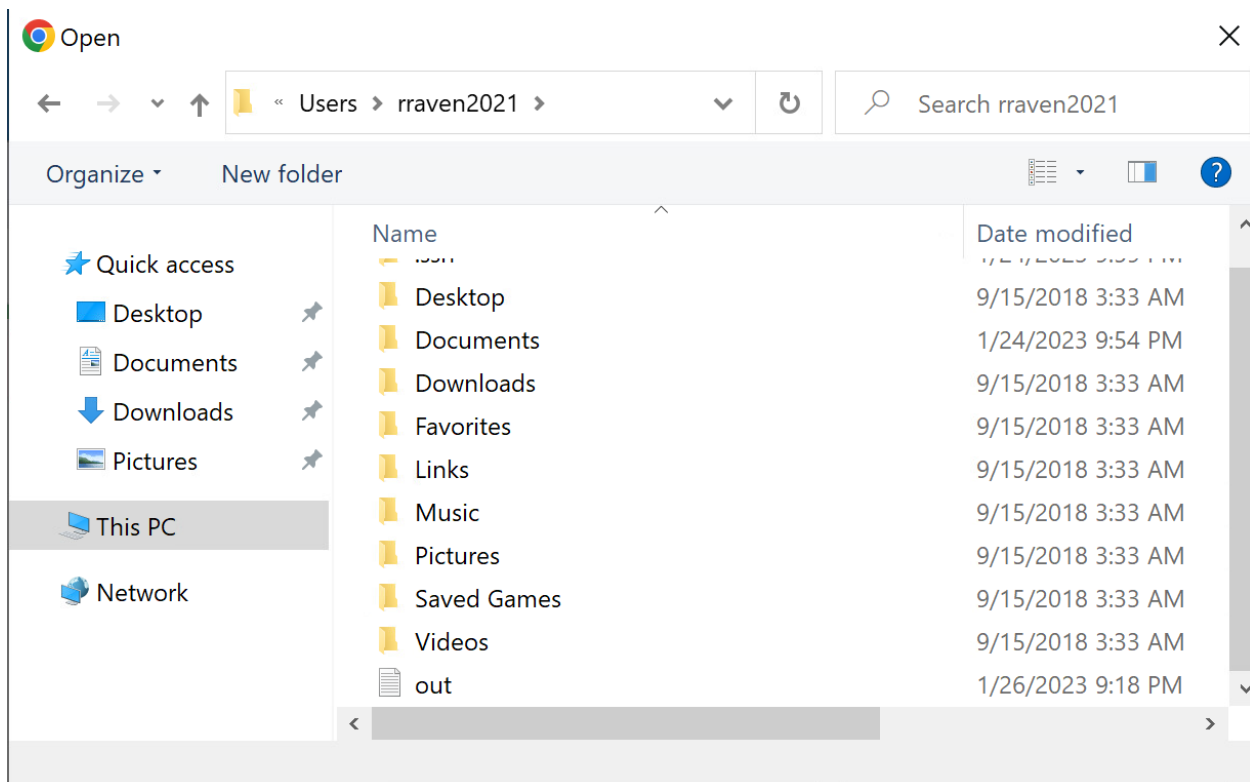
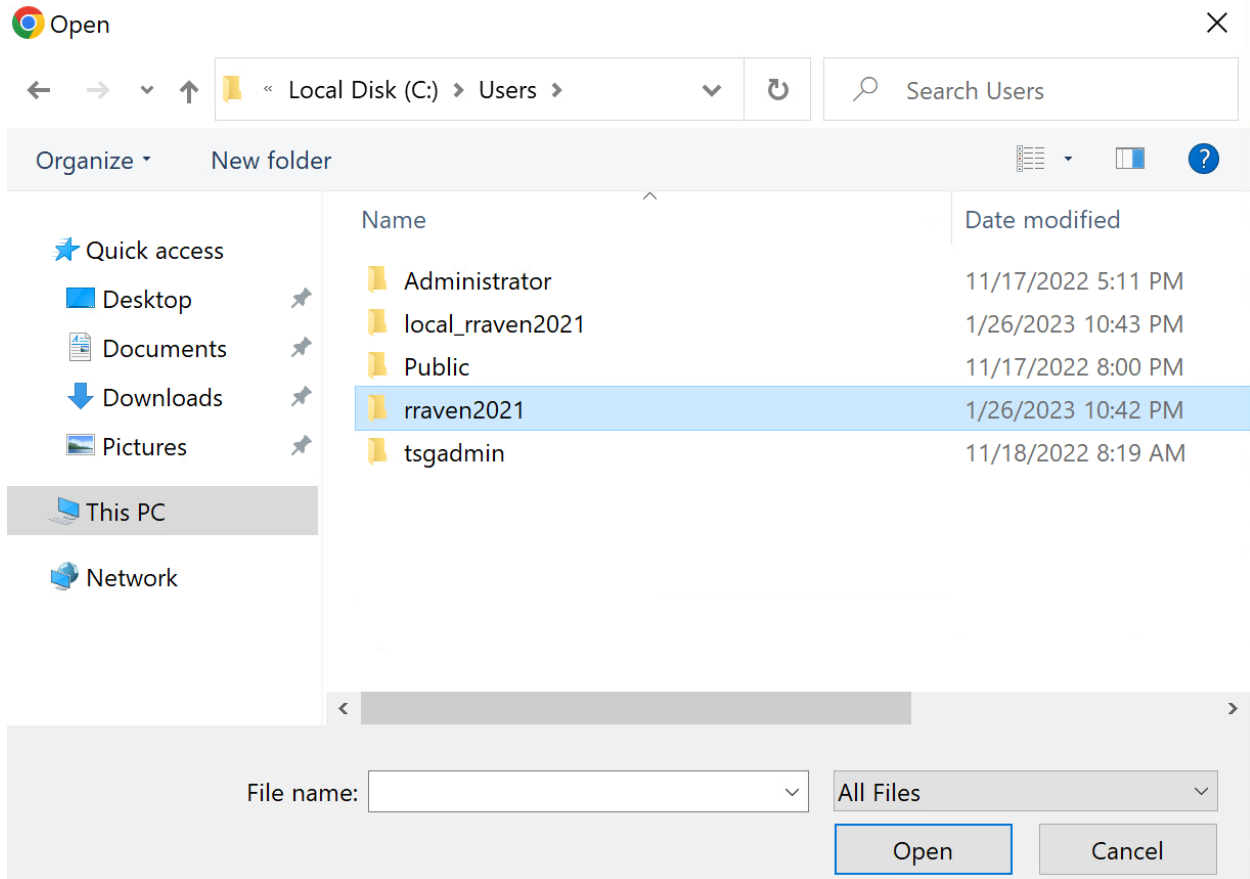
Log in to myfau



Upload the spool file as part of the homework submission







CHANGE LINUX PASSWORD

```
[rraven2021@localhost ~]$ passwd
Changing password for user rraven2021.
Current password:
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
[rraven2021@localhost ~]$
```

CHANGE ORACLE PASSWORD

```
SQL> password
Changing password for RRAVEN2021
Old password:
New password:
Retype new password:
Password changed
SQL>
```