SMIT R PATEL

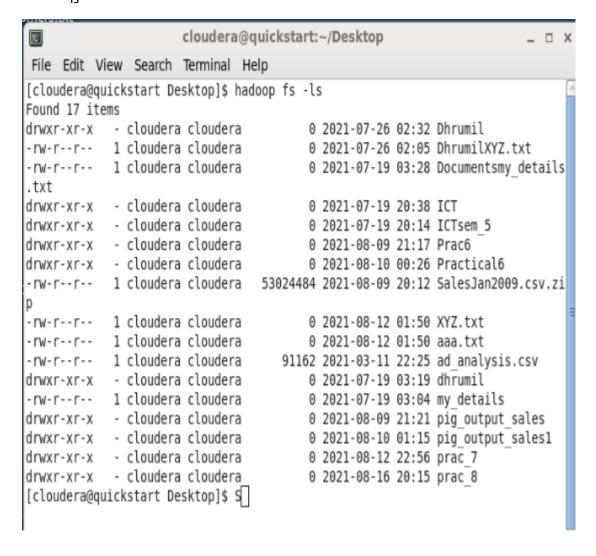
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SEM 5

**BIG DATA AND ANALYTICS** 

PRACTICAL 1

You are a student who is comfortable working with Linux. With the following in mind, simply
try out the LS command to list all the files and directories as you would do in a Linux system.
Now, try the following for listing files and directories in a Hadoop system with "hadoop fs ls"

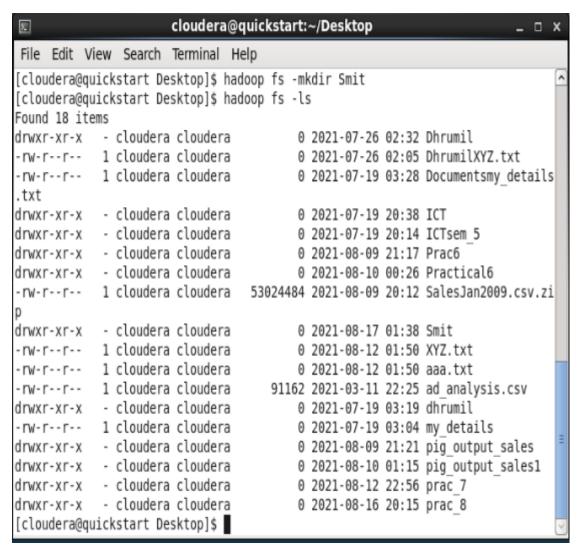


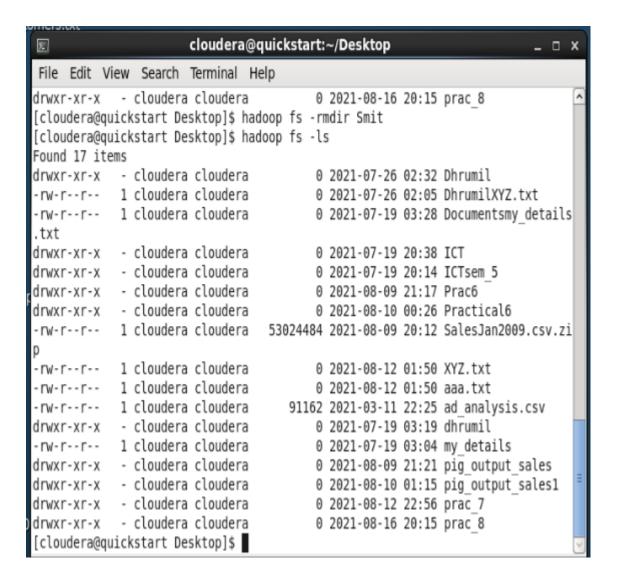
```
cloudera@quickstart:~/Desktop
Σ
                                                                         _ 🗆 X
File Edit View Search Terminal Help
drwxr-xr-x
            - cloudera cloudera
                                         0 2021-08-12 22:56 prac 7

    cloudera cloudera

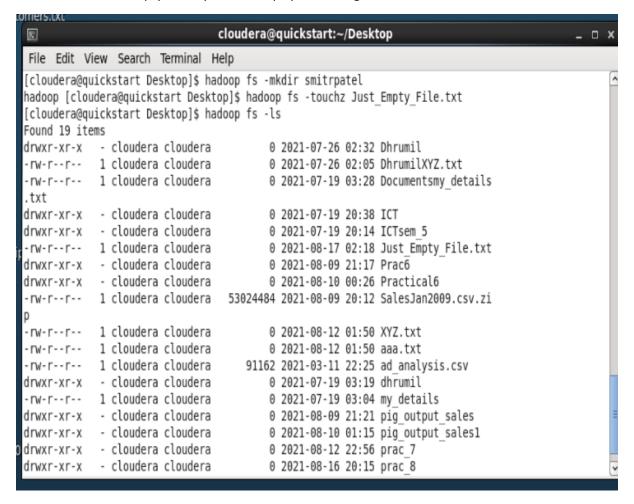
                                         0 2021-08-16 20:15 prac 8
drwxr-xr-x
[cloudera@quickstart Desktop]$ hdfs dfs -ls
Found 17 items
drwxr-xr-x - cloudera cloudera
                                         0 2021-07-26 02:32 Dhrumil
            1 cloudera cloudera
                                         0 2021-07-26 02:05 DhrumilXYZ.txt
-rw-r--r--
-rw-r--r-- 1 cloudera cloudera
                                         0 2021-07-19 03:28 Documentsmy details
.txt
drwxr-xr-x - cloudera cloudera
                                         0 2021-07-19 20:38 ICT
drwxr-xr-x - cloudera cloudera
                                         0 2021-07-19 20:14 ICTsem 5
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-09 21:17 Prac6
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-10 00:26 Practical6
                                  53024484 2021-08-09 20:12 SalesJan2009.csv.zi
            1 cloudera cloudera
-rw-r--r--
-rw-r--r-- 1 cloudera cloudera
                                         0 2021-08-12 01:50 XYZ.txt
-rw-r--r-- 1 cloudera cloudera
                                         0 2021-08-12 01:50 aaa.txt
-rw-r--r-- 1 cloudera cloudera
                                     91162 2021-03-11 22:25 ad analysis.csv
drwxr-xr-x - cloudera cloudera
                                         0 2021-07-19 03:19 dhrumil
-rw-r--r-- 1 cloudera cloudera
                                         0 2021-07-19 03:04 my details
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-09 21:21 pig output sales
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-10 01:15 pig output sales1
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-12 22:56 prac 7
drwxr-xr-x - cloudera cloudera
                                         0 2021-08-16 20:15 prac 8
[cloudera@quickstart Desktop]$
```

2 You are now aware you cannot change directories in Hadoop . Hence, create a folder on your Hadoop home directory with your name.





3. Create an empty file in your Hadoop system using the touchz command.



```
cloudera@quickstart:~
  2
   File Edit View Search Terminal Help
  [cloudera@quickstart Desktop]$ cd ...
 [cloudera@quickstart ~] hadoop fs -touchz Just Empty File.txt
 [cloudera@quickstart ~]$ hadoop fs -ls
 Found 19 items
 drwxr-xr-x - cloudera cloudera
                                                                                   0 2021-07-26 02:32 Dhrumil
-rw-r--r-- 1 cloudera cloudera 0 2021-07-26 02:32 DHrumilt
-rw-r--r-- 1 cloudera cloudera 0 2021-07-26 02:05 DhrumilXYZ.txt
-rw-r--r- 1 cloudera cloudera 0 2021-07-19 03:28 Documentsmy_details.txt
drwxr-xr-x - cloudera cloudera 0 2021-07-19 20:38 ICT
-rw-r--r- 1 cloudera cloudera 0 2021-07-19 20:14 ICTsem_5
-rw-r--r-- 1 cloudera cloudera 0 2021-08-17 02:20 Just_Empty_File.txt
drwxr-xr-x - cloudera cloudera 0 2021-08-10 00:26 Practical6
  -rw-r--r-- 1 cloudera cloudera 53024484 2021-08-09 20:12 SalesJan2009.csv.zip
  -rw-r--r- 1 cloudera cloudera 0 2021-08-12 01:50 XYZ.txt
  -rw-r--r-- 1 cloudera cloudera
-rw-r--r- 1 cloudera cloudera 91162 2021-08-12 01:50 aaa.txt 91162 2021-03-11 22:25 ad_analysis.csv 0 2021-07-19 03:19 dhrumil 0 2021-07-19 03:04 my_details 0 2021-07-19 03:04 my_details 0 2021-08-09 21:21 pig_output_sales 0 2021-08-10 01:15 pig_output_sales 0 2021-08-10 01:15 pig_output_sales 0 2021-08-12 22:56 prac_7 drwxr-xr-x - cloudera cloudera 0 2021-08-16 20:15 prac_8 drwxr-xr-x - cloudera cloudera 0 2021-08-17 02:17 smitrpatel
                                                                                  0 2021-08-12 01:50 aaa.txt
[cloudera@quickstart ~]$
```

4. Create a sample file in your LOCAL SYSTEM and name it- ABC, and execute the "copyFromLocal" command in your Hadoop system to copy this file to the folder you created in your name.

$\overline{z}$						cloud	dera@q	uicks	start:~			-	X
File	Edit	View	Search	Terminal	Help								
drwxr	-xr-x		cloudera	cloudera	3	0	2021-0	8-09	21:17	Prac6			[
drwxr	-xr-x		cloudera	cloudera	9	0	2021-0	8-10	00:26	Practical6			
- rw- r	r	1	cloudera	cloudera	5	3024484	2021-0	8-09	20:12	SalesJan2009.csv.zi			
p													
	·-r	1	cloudera	cloudera	3	0	2021-0	8-12	01:50	XYZ.txt			
- rw- r	r	1	cloudera	cloudera	3	Θ	2021-0	8-12	01:50	aaa.txt			
-rw-r	r	1	cloudera	cloudera	3	91162	2021-0	3-11	22:25	ad analysis.csv			
drwxr	-хг-х		cloudera	cloudera	3	Θ	2021-0	7-19	03:19	dhrumil			- 1
- rw- r	r	1	cloudera	cloudera	3	0	2021-0	7-19	03:04	my details			
drwxr	-xr-x		cloudera	cloudera	1	Θ	2021-0	8-09	21:21	pig output sales			
drwxr	-xr-x		cloudera	cloudera	ì	0	2021-0	8-10	01:15	pig output sales1			
drwxr	- X F - X		cloudera	cloudera	9		2021-0						
drwxr	-xr-x		cloudera	cloudera	3	0	2021-0	8-16	20:15	prac 8			
drwxr	-xr-x		cloudera	cloudera	1	0	2021-0	8-17	02:21	smitrpatel			
[cloudes smit			kstart ~]	\$ hadoop	fs -	copyFro	mLocal	/home	e/cloud	dera/Desktop/ABC.txt			
			(start ~]	\$ hadoop	fs -	ls smit	rpatel						
Found	2 it	ems		8 10									
-rw-r	r	1	cloudera	cloudera	1	6	2021-0	8-19	00:43	smitrpatel/ABC.txt			
			cloudera							smitrpatel/Just Emp			
ty Fi										- '			
[cloud	dera@ romLo	quick cal:	kstart ~] `smitrpa kstart ~]	tel/ABC.t				/home	e/cloud	dera/Desktop/ABC.txt	smitrpatel/		