EXP NO: 4

CREATE UDF IN PIG

\$start-all.sh

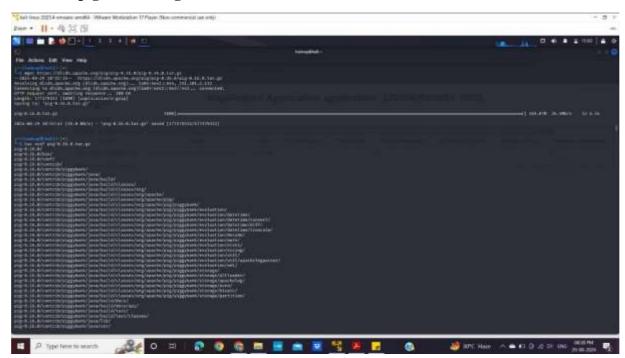
```
File Actions Edit View Help

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```

\$ jps

\$wget https://dlcdn.apache.org/pig/pig-0.16.0/pig-0.16.0.tar.gz

\$ tar xvzf pig-0.16.0.tar.gz

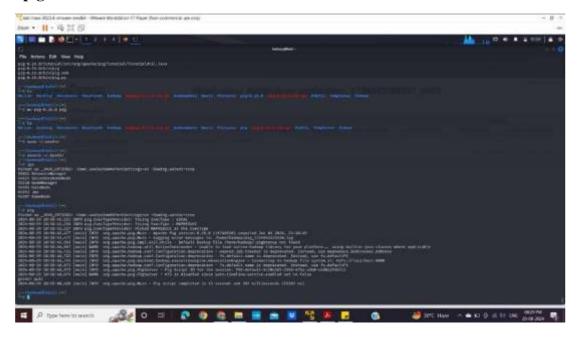


\$nano ~/.bashrc

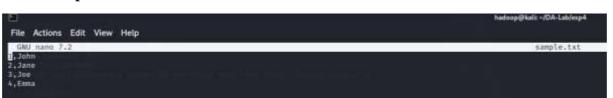
```
#PIG settings
export PIG_HOME=/home/hadoop/pig
export PATH=SPATH:SPIG_HOME/bin
export PIG_CLASSPATH=SPIG_HOME/conf:SHADOOP_HOME/etc/hadoop/
export PIG_CONF_DIR=SPIG_HOME/conf
#export JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64
export PIG_CLASSPATH=SPIG_CONF_DIR:SPATH
#PIG setting ends
```

\$mv pig-0.16.0 pig

\$pig



\$cd DA-Lab \$mkdir exp4 \$cd exp4 \$nano sample.txt



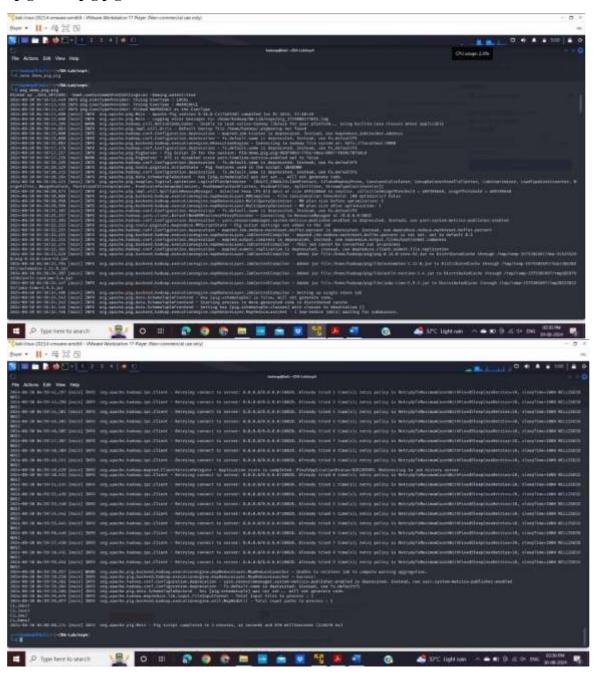
\$nano demo_pig.pig



\$hdfs dfs -mkdir/exp4

\$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/sample.txt /exp4

\$pig demo_pig.pig



\$nano uppercase_udf.py

```
File Actions Edit View Help

GNU name 7.2

propercase(text):
    p
```

\$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/uppercase_udf.py /exp4

\$nano udf_example.pig

```
File Actions Edit View Help

GNU rano 7.2

- Register the Python UDF script

REDISTER 'hdfs:///exp4/uppercase_udf.py' USING jython AS udf;

- Load some data
data - LOAD 'hdfs:///exp4/sample.txt' AS (text:chararray);

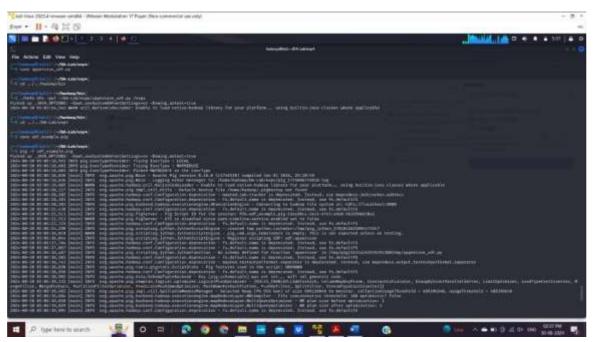
- Use the Python UDF

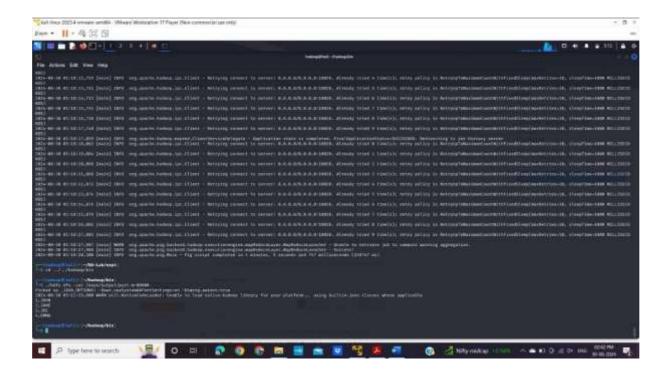
uppercased_data = FOREACH data GENERATE udf.uppercase(text) AS uppercase_text;

- Store the result

STORE uppercased_data INTO 'hdfs:///exp4/output';
```

\$pig -f udf_example.pig





\$hdfs dfs -cat /exp4/output/*

```
(hadoop@ kali)-[~/hadoop/bin]
$ ./hdfs dfs -cat /exp4/output/*
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
2024-09-21 00:33:32,731 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform ...
1, JOHN
2, JANE
3, JOE
4, EMMA
```