EX.NO. 4 210701307

Create UDF (User Defined Functions) in Apache Pig and execute it in MapReduce/HDFS mode

AIM:

To create UDF (User Defined Functions) in Apache Pig and execute it in MapReduce/HDFS mode.

PROCEDURE:

1. Ensure that Apache Pig is installed and configured.

```
0:\ \pig
2024-08-28 21:04:07.803 IMFO pig.ExecTypeFrovider: Trying ExecType : LOCAL
2024-08-28 21:04:07.872 IMFO pig.ExecTypeFrovider: Trying ExecType : MATREDUCE
2024-08-28 21:04:07.872 IMFO pig.ExecTypeFrovider: Trying ExecType : MATREDUCE
2024-08-28 21:04:07.872 IMFO pig.ExecTypeFrovider: Ficked MATREDUCE as the ExecType
2024-08-28 21:04:08.083 [main] IMFO org.opache.pig.Main - Apoche Pig version 0.17.0 (r1707286) compiled Jun 02 2017, 18:41:
08
2024-08-28 21:04:08.083 [main] IMFO org.opache.pig.Main - Logging error necessors to: G:\hadcop-3.3.0\logs\bigs\bigs_1/24688448048
.log
2024-08-28 21:04:08.076 [main] IMFO org.opache.pig.impl.wtil.Utils - Default bostup 0 in G:\hadcop-3.3.0\logs\bigs_1/24688448048
.log
2024-08-28 21:04:08.310 [main] IMFO org.opache.pig.impl.wtil.Utils - Default bostup 0 in G:\hadcop-3.3.0\logs\bigs_1/24638448048
.log
2024-08-28 21:04:08.310 [main] IMFO org.opache.pig.impl.wtil.Utils - Default bostup 0 in G:\hadcop-invoker.pig.pigbootup net foun d
2024-08-28 21:04:08.317 [main] IMFO org.opache.pig.backend.hadcop.executionengine.HExecutionEngine - Connecting to hadcop f
11e system at: hafs://localhost:0008
2024-08-28 21:04:08.792 [main] IMFO org.opache.pig.PigServer - Pig Script ID for the session: PIG-default-discRobot-9e27-479
d-ab-7c-er461360323d
2024-08-28 21:04:08.792 [main] AARN org.opache.pig.PigServer - ATS is disabled since yorn.timeline-service.enabled set to f
alse
grunt*
```

2. Create a python UDF (User Defined Functions).

3. Jython should be installed as Pig will use it to interpret the Python UDFs. 4. Create a Pig script that registers and uses the Python UDF.

5. Execute the Pig Script in MapReduce Mode using the command:

pig -x mapreduce script.pig

OUTPUT:

```
Storosoft Windows [Version 38.8.25921.4007]
(c) Wicrosoft Geoperation. All rights reserved.

C:\Users\manufaces(Geoperation. All rights reserved.)

Geoge-Ge-D:\manufaces(Geoperation. All rights reserved.)

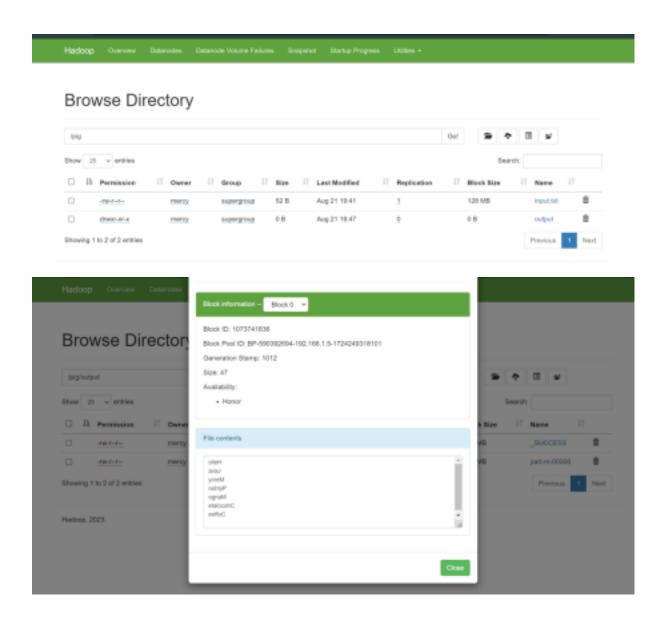
Sept-Ge-D:\manufaces(Geoperation. All rights reserved.)

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```

```
C:\>hadoop fs -mkdir /pig
C:\>hadoop fs -put C:/Users/mercy/OneDrive/Documents/DataAnalytics/Pig/input.txt /pig
C:\>hadoop fs -cat /pig/output/part-m-00000
colleH
avaJ
ycreM
nohtyP
cognaM
etalocohC
meeffoC
```



RESULT:

Thus, to create a UDF in Apache Pig and execute in MapReduce mdoe has been executed successfully