# **EXP NO: 4**

# **CREATE UDF IN PIG**

\$start-all.sh

\$ 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

\$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

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| Note: | Indexeption | Comments | Section | Comments |
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## \$hdfs dfs -copyFromLocal ~/DA-Lab/exp4/uppercase\_udf.py /exp4

### \$nano udf\_example.pig

#### \$pig -f udf\_example.pig

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                                                hadoop@fedora:~/da/exp4
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        at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
        at \ java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
        at java.base/java.lang.reflect.Method.invoke(Method.java:566)
        at org.apache.hadoop.util.RunJar.run(RunJar.java:328)
        at org.apache.hadoop.util.RunJar.main(RunJar.java:241)
2024-09-11 14:33:30,316 [main] ERROR org.apache.pig.tools.grunt.Grunt - ERROR 1200: <file demo_pig.pig, line 5, column
 0> mismatched input 'DUMP' expecting SEMI_COLON
Details at logfile: /home/hadoop/da/exp4/pig_1726045407699.log
2024-09-11 14:33:30,380 [main] INFO org.apache.pig.Main - Pig script completed in 2 seconds and 918 milliseconds (291
8 ms)
[hadoop@fedora exp4]$ nano demo_pig.pig
[hadoop@fedora exp4]$ pig demo_pig.pig
2024-09-11 14:34:17,296 INFO pig.ExecTypeProvider: Trying ExecType : LOCAL
2024-09-11 14:34:17,299 INFO pig.ExecTypeProvider: Trying ExecType : MAPREDUCE
2024-09-11 14:34:17,299 INFO pig.ExecTypeProvider: Picked MAPREDUCE as the ExecType
2024-09-11 14:34:17,420 [main] INFO org.apache.pig.Main - Apache Pig version 0.16.0 (r1746530) compiled Jun 01 2016,
2024-09-11 14:34:17,420 [main] INFO org.apache.pig.Main - Logging error messages to: /home/hadoop/da/exp4/pig_1726045
457396.log
2024-09-11 14:34:18,225 [main] INFO org.apache.pig.impl.util.Utils - Default bootup file /home/hadoop/.pigbootup not
2024-09-11 14:34:18,369 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - mapred.job.tracker is deprecat
ed. Instead, use mapreduce.jobtracker.address
2024-09-11 14:34:18,369 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated.
 Instead, use fs.defaultFS
2024-09-11 14:34:18,370 [main] INFO org.apache.pig.backend.hadoop.executionengine.HExecutionEngine - Connecting to ha
doop file system at: hdfs://localhost:9000
2024-09-11 14:34:19,515 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated.
 Instead, use fs.defaultFS
2024-09-11 14:34:19,575 [main] INFO org.apache.pig.PigServer - Pig Script ID for the session: PIG-demo_pig.pig-114288
6c-f5d8-4f00-9076-ce9b4317a5b1
2024-09-11 14:34:19,576 [main] WARN org.apache.pig.PigServer - ATS is disabled since varn.timeline-service.enabled se
t to false
2024-09-11 14:34:20,618 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated.
 Instead, use fs.defaultFS
2024-09-11 14:34:21,209 [main] INFO org.apache.pig.tools.pigstats.ScriptState - Pig features used in the script: UNKN
 2024-09-11 14:34:21,271 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated.
 Instead, use fs.defaultFS
 .024-09-11 14:34:21,294 [main] INFO org.apache.pig.data.SchemaTupleBackend - Key [pig.schematuple] was not set... wil
 l not generate code.
2024-09-11 14:34:21,378 [main] INFO org.apache.pig.newplan.logical.optimizer.LogicalPlanOptimizer - {RULES_ENABLED=[A
ddForEach, ColumnMapKeyPrune, ConstantCalculator, GroupByConstParallelSetter, LimitOptimizer, LoadTypeCastInserter, Me
 geFilter, MergeForEach, PartitionFilterOptimizer, PredicatePushdownOptimizer, PushDownForEachFlatten, PushUpFilter, S
plitFilter, StreamTypeCastInserter]}
2024-09-11 14:34:21,553 [main] INFO org.apache.pig.impl.util.SpillableMemoryManager - Selected heap (G1 Old Gen) of s
ize 1048576000 to monitor. collectionUsageThreshold = 734003200, usageThreshold = 734003200
2024-09-11 14:34:21,671 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MRCompiler - File co
ncatenation threshold: 100 optimistic? false
2024-09-11 14:34:21,727 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MultiQueryOptimizer
 · MR plan size before optimization: 1
2024-09-11 14:34:21,728 [main] INFO org.apache.pig.backend.hadoop.executionengine.mapReduceLayer.MultiQueryOptimizer
 · MR plan size after optimization: 1
2024-09-11 14:34:21,793 [main] INFO org.apache.hadoop.conf.Configuration.deprecation - fs.default.name is deprecated.
Instead, use fs.defaultFS
2024-09-11 14:34:22.033 [main] INFO org.apache.hadoop.metrics2.impl.MetricsConfig - Loaded properties from hadoop-met
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# \$hdfs dfs -cat /exp4/output/\*

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