PRACTICAL-10

CREATING AND EXECUTING PIG LATIN SCRIPT

Name: - Zen Dsouza Roll No: - 34 Subject - BDT

What is Pig in Hadoop?

Pig is a scripting platform that runs on Hadoop clusters designed to process and analyze large datasets. Pig is extensible, self-optimizing, and easily programmed.

Programmers can use Pig to write data transformations without knowing Java. Pig uses both structured and unstructured data as input to perform analytics and uses HDFS to store the results.

Components of Pig

There are two major components of the Pig:

- Pig Latin script language
- A runtime engine

Pig Latin script language:

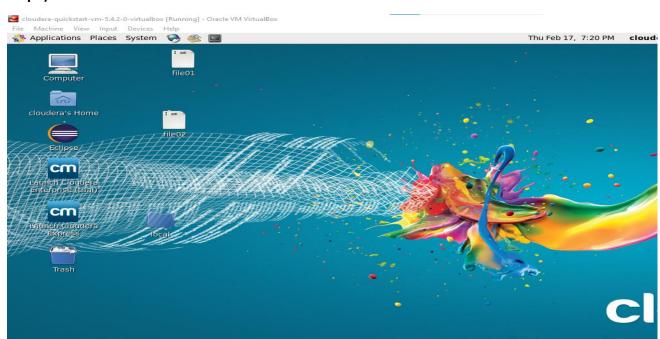
The Pig Latin script is a procedural data flow language. It contains syntax and commands that can be applied to implement business logic. Examples of Pig Latin are LOAD and STORE.

A runtime engine:

The runtime engine is a compiler that produces sequences of MapReduce programs. It uses HDFS to store and retrieve data. It is also used to interact with the Hadoop system (HDFS and MapReduce).

The runtime engine parses, validates, and compiles the script operations into a sequence of MapReduce jobs.

step1) Start the cloudera



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Step 2: Now Open the terminal. And start Pig by typing pig on terminal.



Step 3: now pig get started

Step 4: now load the file mydata.txt file,

A=LOAD '/user/cloudera/Training/pig/mydata.txt' AS (c1:int,c2:int,c3:int);

And then dump,

dump A;

```
Service Adam Julian Provided P
```

```
Haddopfversion Pigversion UserId StartedAt FinishedAt 2.6.0-cdh5.4.2 clouders 2022-03-29 20:16:10 2022-03-29 20:16:35 UNKNOWN

Success!

Job Stats (Line in seconds):
Job Stats (Line in seconds):
Job Lod Maps Reduces MaxMapTine MinMapTine AvgMapTine MedianMapTine MaxReduceTine AvgReduceTine AvgReduceTine MinReduceTine AvgReduceTine AvgReduceTine Alias Feature Outputs

Job Lod45484343526_0033 1 0 5 5 5 5 5 5 7/a n/a n/a n/a NA MAP_ONLY hdfs://quickstart.cloudera:8020/tmp/temp2008527170/tmp977761476,

Input(s):
Successfully read 3 records (417 bytes) from: "/user/cloudera/Training/pig/mydata.txt"

Output(s):
Successfully stored 3 records (30 bytes) in: "hdfs://quickstart.cloudera:8020/tmp/temp2008527170/tmp977761476"

Counters:
Total records written: 3
Total bytes written: 30
Spillable Memory Manager spill count: 0
Total records practively spilled: 0
Total records practively spilled:
```

Step 5: LOAD B

B=LOAD 'user/cloudera/Training/pig/mydata.txt.

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```
### 1.000 / Joseph Condense Transmissipolympdata (at: 2022-03-29 20:199.)15 [main] 100 org.spotch.badop.comf.Configuration.deprecation - fs.default.name is deprecated. Instead, use fs.default.pp. 1202-03-29 20:199.)16 [main] 100 org.spotch.hadop.comf.Configuration.deprecation - magned_job.Tracker is deprecated. Instead, use magneduce.jobtracker.address grunts data [main] 100 org.spotch.pp. populate [main] 100 org.spotch.pp. populate
```

```
Counters:
Total records written: 3
Total bytes written: 50
Spillable Memory Manager spill count: 0
Total bags proactively spilled: 0
Total records proactively
```

Step 6:now check Schema of A.

```
grunt> DESCRIBE A;
A: {c1: int,c2: int,c3: int}
grunt> DESCRIBE B;
Schema for B unknown.
```

Step 7: ILLUSTRATE A

```
Sgrumbs ILLUSTRATE A:
2022-03-79 20:25:47,127 [main] INFO org.apache.hadoop.comf.Configuration.deprecation - special contents of deprecated. Instead, use fis.defaultf5
2022-03-79 20:25:47,127 [main] INFO org.apache.hadoop.comf.Configuration.deprecation - majored.
2022-03-79 20:25:47,127 [main] INFO org.apache.pija.backend.hadoop.executionengine.MEXecutionEngine - Connecting to majoreduce.job tracker at: localhost;0021
2022-03-79 20:25:47,128 [main] INFO org.apache.pija.backend.hadoop.executionengine.MEXecutionEngine - Connecting to majoreduce.job tracker at: localhost;0021
2022-03-79 20:25:47,136 [main] INFO org.apache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pija.pache.pache.pija.pache.pache.pija.pache.pache.pija.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pache.pach
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File name: STUDENT.txt

All the data available in this file

Step 8: pig/home/cloudera/Documents/student.pig

Pig script file.

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```

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Display the patricular data:

Step 9:

Mention the data which we want to check. It will be display in listing form.

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