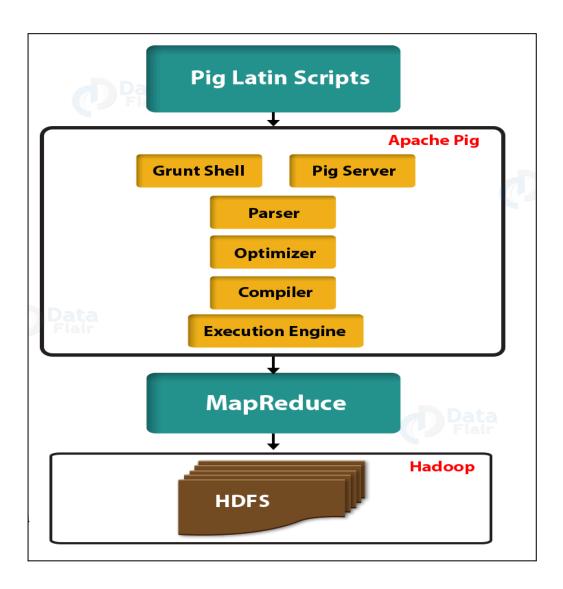


EXPERIMENT NO. 6

Aim: Execute PIG built-in commands and run pig scripts on HDFS

Theory:

1. Explain the Working of a Pig with Architecture.



Practical Execution

- 1. Enter the pig command localhost. [training@localhost ~]\$ pig
- 2. Fs: This will list all the files in the HDFS grunt> fs -ls
- 3. We can invoke any shell commands using sh

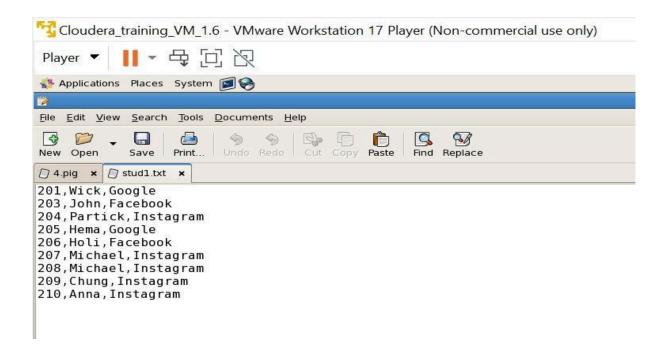


4. Create a folder on Hdfs

grunt> fs -mkdir /aids

5. create text/csv file on local user account and enter employee's details

grunt> sh gedit stud1.txt



6. Copy stud1.txt file on HDFS

grunt> fs -put /home/training/stud1.txt /aids/

7. Check that the file has been copied properly.

grunt> fs -cat /aids/stud1.txt

8. load the stud1.txt to pig using the load command and store the result in student Variable

grunt> student = LOAD '/aids/stud1.txt' USING PigStorage(',') as (id: int ,name:chararray ,Company: chararray);

9. Display the result using the dump operator.

dump student;

10. You may create one pig Script file and name it yukt.pig

sh gedit yukt.pig

In that file Write code as given below

student = LOAD '/aids/stud1.txt' USING PigStorage(',') as (id:int,name:chararray,Company:chararray);



dump student;

11. Save that file.

12.go on pig prompt and execute that file 2.pig

```
grunt> exec /home/training/2.pig
OR
grunt> run /home/training/2.pig
```

13. Display separate columns from a given file.

```
grunt> ds1 = foreach student generate id, city;
grunt> dump ds1;
```

14. Use order operator

```
grunt> ds2= order student by id desc;
grunt> dump ds2;
```

15. Use group

```
grunt> gr = group ds2 by name ;
grunt> dump gr;
```

16. Use filter operator.

```
grunt> ds3 = filter student by company == 'Instagram';
grunt> dump ds3;
```

17. Union operator

```
grunt> Result = UNION ds1, student; (Note: make sure both tables have the same attribute)
grunt> dump Result
```

17. Store files on HDFS using the store command.

```
grunt> store result into '/a6/' USING PigStorage(',');
```

18. Check the file has been copied.

```
grunt> fs -ls /a6/
```

19. Display the result.

```
grunt> fs -cat /a6/part-m-00000
```





Conclusion: hence we study how to run the Pig command and Pig script using Pig Hadoop ecosystem.