# Class: TY-IT, Semester: VI Subject: Big Data Lab

**Experiment – 6: TO STUDY AND IMPLEMENT PIG COMMANDS**

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1. **Aim:** To study and implement Pig commands.

1. **Requirements:** PC, Internet and VMWare software, Cloudera.
2. **Theory:**

**Students need to write the theory on following points.**

* + Overview of Pig
  + Features of Pig

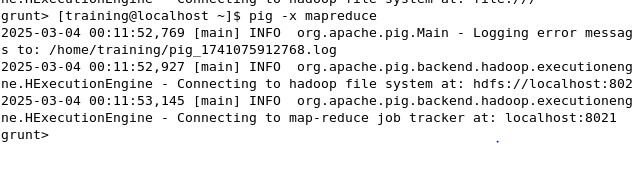
1. **Procedure**

Open VMWare Workstation > select Cloudera > open virtual machine > in terminals

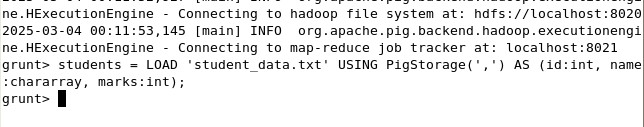
Perform the Pig commands.

(Minimum 20 commands should be executed)

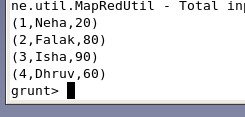
1.



2.students = LOAD 'student\_data.txt' USING PigStorage(',') AS (id:int, name:chararray, marks:int);

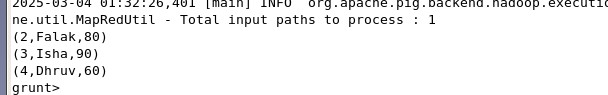


3.dump

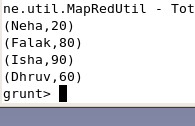


4.high\_salary = FILTER data BY salary > 50000;

DUMP high\_salary;



5.name\_salary = FOREACH data GENERATE name, salary; DUMP name\_salary;

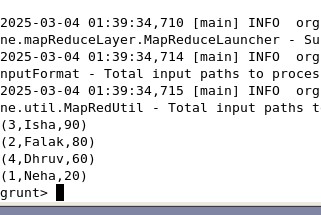


6.max\_salary = FOREACH (GROUP data ALL) GENERATE MAX(data.salary); DUMP max\_salary;

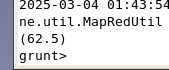


7.sorted\_salaries = ORDER data BY salary DESC;

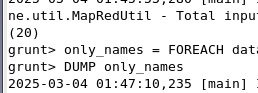
DUMP sorted\_salaries;



8.avg\_salary = FOREACH (GROUP data ALL) GENERATE AVG(data.salary); DUMP avg\_salary;



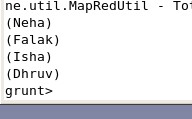
9.min\_salary = FOREACH (GROUP data ALL) GENERATE MIN(data.salary); DUMP min\_salary;



min\_salary = FOREACH (GROUP data ALL) GENERATE MIN(data.salary); DUMP min\_salary;

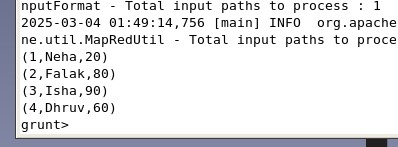
10.only\_names = FOREACH data GENERATE name;

DUMP only\_names;



11.low\_salary = FILTER data BY salary < 30000;

DUMP low\_salary;

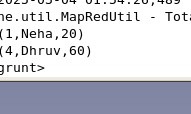


12.i\_names = FILTER data BY name MATCHES 'I.\*';

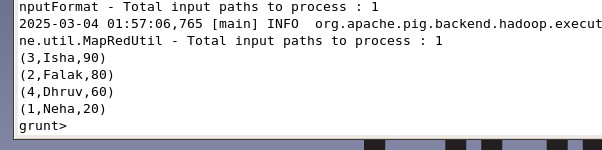
DUMP i\_names;



13.



14.



1. **Result/Observation/Program code**

Take the snapshots of each successfully executed commands and with the explanation along with syntax.

1. **Conclusion:**

▪ Write what was performed in the experiment.

▪ Mention few applications of what was studied.

▪ Write the significance of the topic studied in the experiment.

**Resources :**

<https://pig.apache.org/docs/latest/basic.html>

<https://pig.apache.org/docs/latest/start.html><https://www.educba.com/pig-commands/>