## **Assignment** 7

## TASK 1

Program to implement wordcount using Pig is

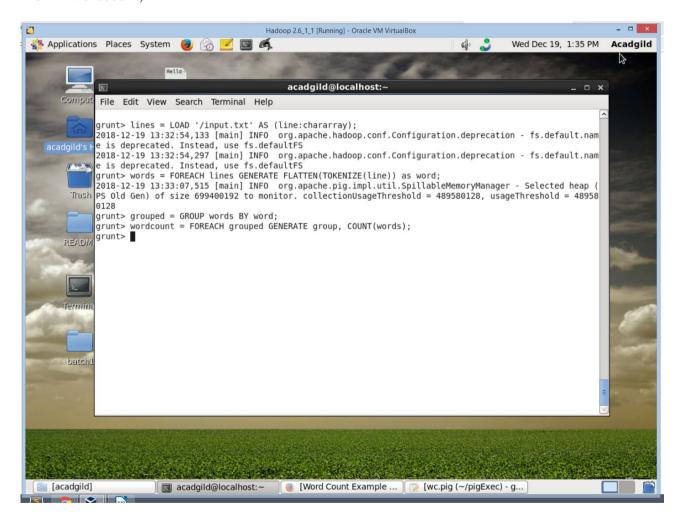
lines = LOAD '/input.txt' AS (line:chararray);

words = FOREACH lines GENERATE FLATTEN(TOKENIZE(line)) as word;

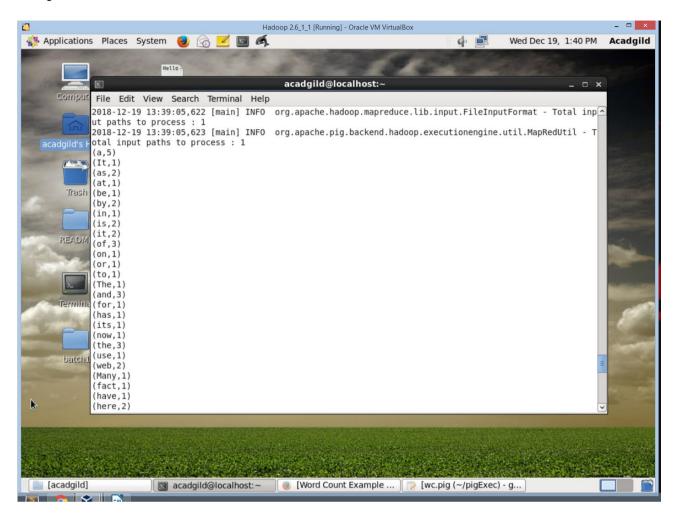
grouped = GROUP words BY word;

wordcount = FOREACH grouped GENERATE group, COUNT(words);

DUMP wordcount;



# **Output**



#### **TASK 2:**

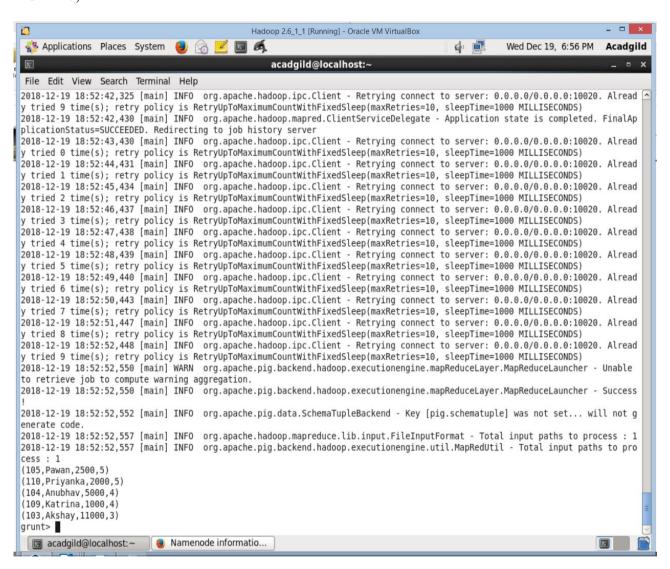
## A) The Pig Script is

LOAD a = 'employee\_details' USING PigStorage(',') AS (e\_id:int, e\_name:chararray, e\_salary:int, e\_rating:int);

b = order a by e rating DESC, e name ASC;

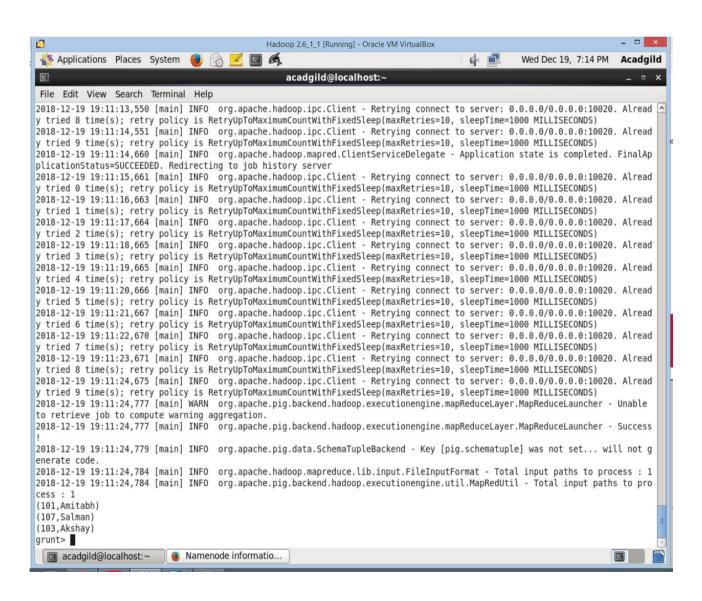
c = LIMIT b 5;

#### DUMP c:



### **B)** The Pig Script is

```
a = LOAD 'employee_details.txt' USING PigStorage(',') AS (e_id:int, e_name:chararray,
e_salary:int, e_rating:int);
b = order a by e_salary desc;
c = FILTER b by e_id%2==1;
d = FOREACH c generate e_id,e_name;
e = LIMIT d 3;
DUMP e:
```



## C) The Pig Script is

a = LOAD 'employee\_details.txt' USING PigStorage(',') AS (e\_id:int, e\_name:chararray, e\_salary:int, e\_rating:int);

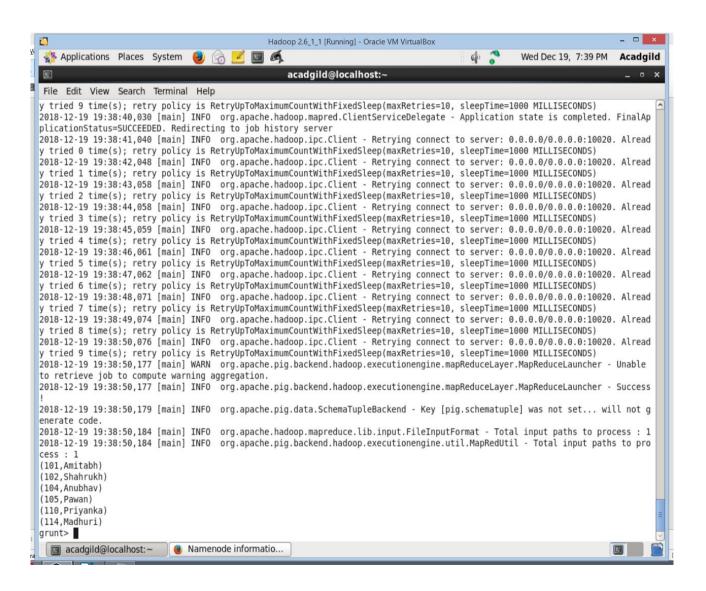
b = LOAD '/employee\_expenses.txt' AS (e\_id:int, e\_exp:int);

c = JOIN a BY e id, b BY e id;

d = FOREACH c GENERATE a::e id, a::e name;

e = DISTINCT d;

dump e;



## **D)** The Pig Script is

a = LOAD 'employee\_details.txt' USING PigStorage(',') AS (e\_id:int, e\_name:chararray, e\_salary:int, e\_rating:int);

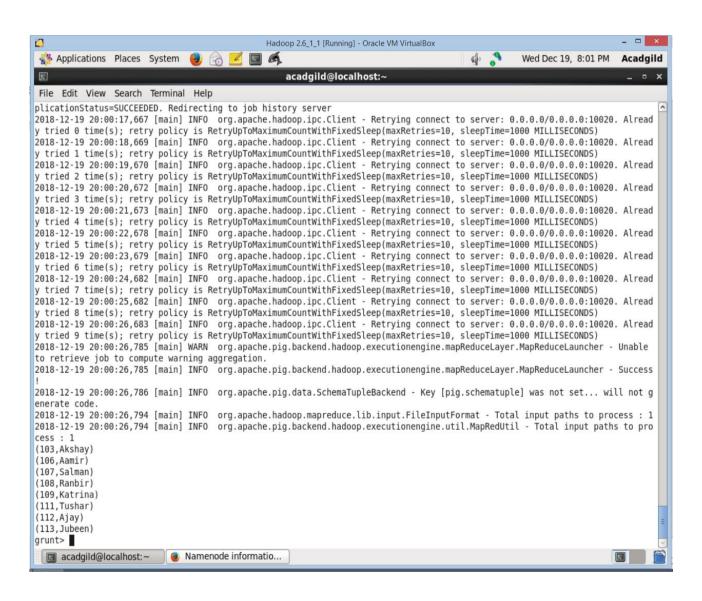
b = LOAD 'employee expenses.txt' AS (e id:int, e exp:int);

c = JOIN a BY e id LEFT OUTER, b BY e id;

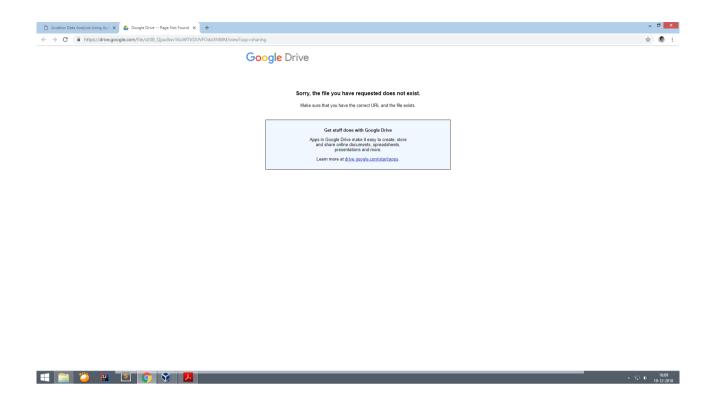
d = FILTER c BY b::e id is null;

e = FOREACH d GENERATE a::e id, a::e name;

DUMP e:



# **TASK 3:**



The data sets for task 3 is not available in the provided link.