**ASSIGNMENT 9 1**

Loading data:

**petrol\_data** = LOAD 'petrol.txt' USING PigStorage(',') AS ( dis\_id:chararray, dis\_name:chararray, buy\_rate:chararray, sell\_rate:chararray, vol\_in:int, vol\_out:int, year:int);

**Task1:**

grouped= GROUP petrol\_data by dis\_name;

sum= FOREACH grouped GENERATE group,SUM(petrol\_data.vol\_out);

DUMP sum;

**Output:**

(shell,69266)

(Bharat,83662)

(reliance,76558)

(hindustan,71767)

**Task2:**

ordered= ORDER petrol\_data by vol\_out DESC;

res= LIMIT ordered 10;

result= FOREACH res GENERATE dis\_id,vol\_out;

DUMP result;

**Output:**

(T1A 9W4,899)

(S8W 0P4,899)

(V8U 2T6,898)

(O9P 9S3,897)

(O8A 6Z5,897)

(F6W 6H3,896)

(J4M 4G3,895)

(M6S 1P4,895)

(N5Q 8E5,895)

(E6O 9P1,895)

**Task3:**

grp= GROUP petrol\_data by year;

sum= FOREACH grp GENERATE petrol\_data.year,petrol\_data.dis\_id,SUM(petrol\_data.vol\_out) as out;

ordered= ORDER sum by out DESC;

result= LIMIT ordered 10;

DUMP result;

**Output:**

({(1943)},{(T1A 9W4)},899)

({(1925)},{(S8W 0P4)},899)

({(2006)},{(V8U 2T6)},898)

({(1759)},{(O9P 9S3)},897)

({(1895)},{(O8A 6Z5)},897)

({(2004)},{(F6W 6H3)},896)

({(1721)},{(J4M 4G3)},895)

({(1773)},{(M6S 1P4)},895)

({(1842)},{(N5Q 8E5)},895)

({(1635)},{(E6O 9P1)},895)

**Task4:**

ordered= ORDER petrol\_data by sell\_rate ASC;

limited= LIMIT ordered 1;

DUMP limited;

(B4N 8E1,Bharat,$917.33,$10029.48,1017,651,2023)

result= FOREACH limited GENERATE dis\_name;

**Output:**

(Bharat)