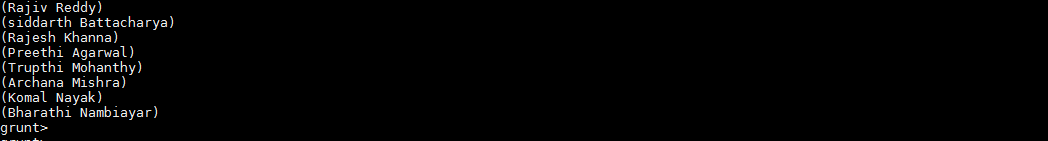
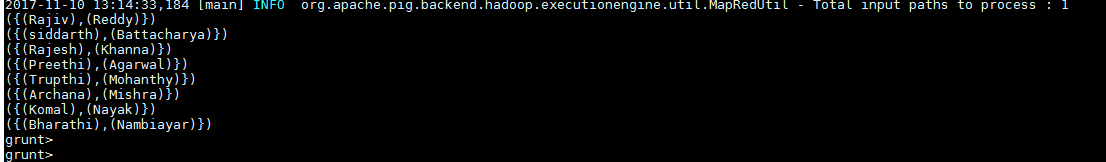
1. CONCAT

student\_name\_concat = FOREACH student\_details GENERATE CONCAT (firstname,' ',lastname);



1. TOKENIZE

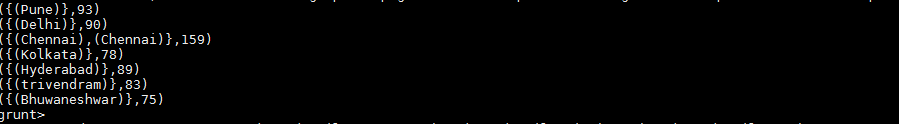
student\_name\_tokenize = FOREACH student\_name\_concat GENERATE TOKENIZE($0,' ');



1. SUM

student\_city\_group = GROUP student\_details by city;

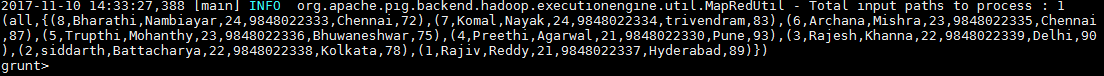
student\_gpa\_sum = FOREACH student\_city\_group GENERATE (student\_details.city),**SUM(student\_details.gpa);**

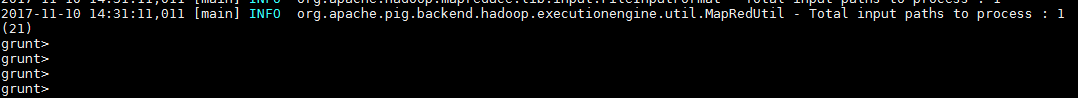


1. MIN

student\_group = GROUP student\_details all;

student\_min\_age = FOREACH student\_group GENERATE **MIN(student\_details.age);**

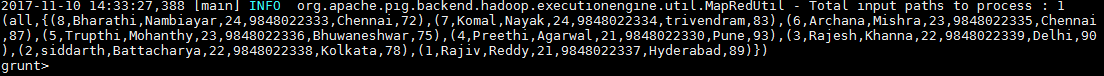


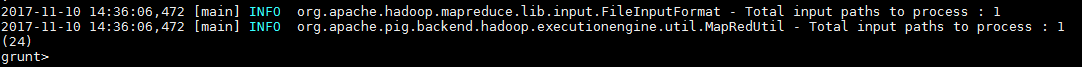


1. MAX

student\_group = GROUP student\_details all;

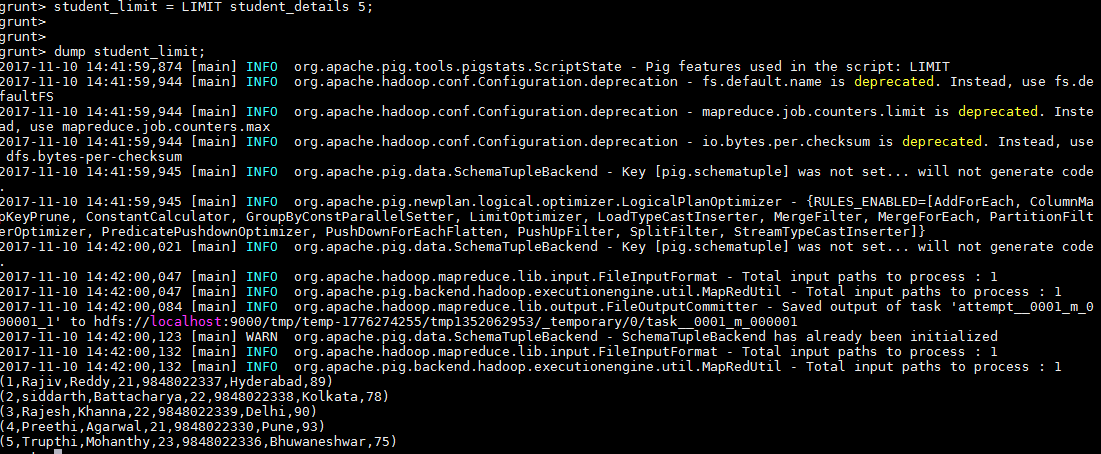
student\_max\_age = FOREACH student\_group GENERATE **MAX(student\_details.age)**;





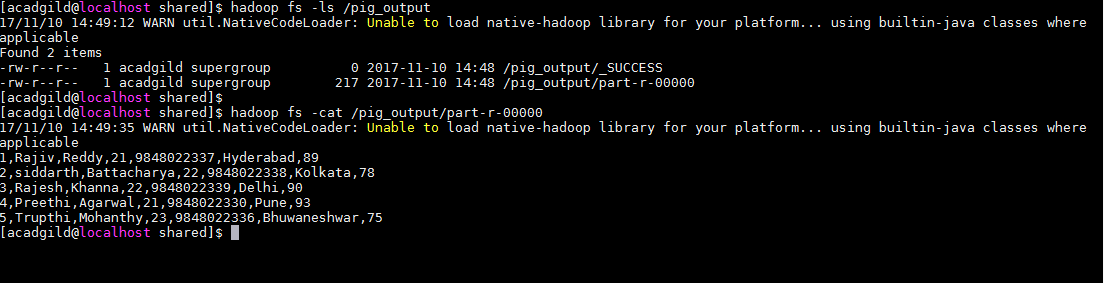
1. LIMIT

student\_limit = LIMIT student\_details 5;



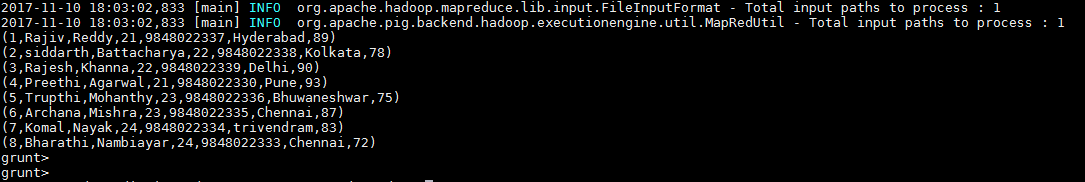
1. STORE

STORE student\_limit into '/pig\_output' using PigStorage(',');



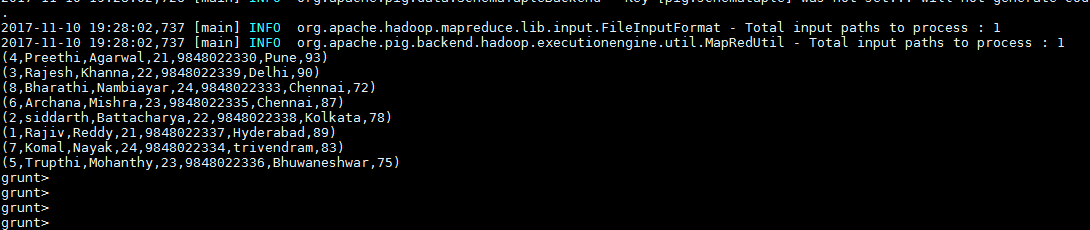
1. DISTINCT

student\_distinct\_data = DISTINCT student\_data;



1. FLATTEN

student\_flatten\_data = FOREACH student\_city\_group GENERATE FLATTEN($1);



1. ISEMPTY

emp\_details = LOAD '/pig\_data/emp.txt' USING PigStorage(',') as (empid:int,empname:chararray,deptid:int);

dept\_details = LOAD '/pig\_data/dept.txt' USING PigStorage(',') as (deptid:int,deptname:chararray);

cogroup\_data = cogroup emp\_details by deptid,dept\_details by deptid;

is\_emptydata = FILTER cogroup\_data by IsEmpty(emp\_details);



