Assignment 9.2

student_data = LOAD 'studentDS' USING PigStorage(',') AS (stu_name:chararray, college:chararray, DOB:chararray,stream:chararray,grade:float,state:chararray,city:chararray);
 dump student_data;

1.Problem Statement

Find the number of students who scored less than 5(50%).

student_less_than_50 = filter student_data by grade<5.0;
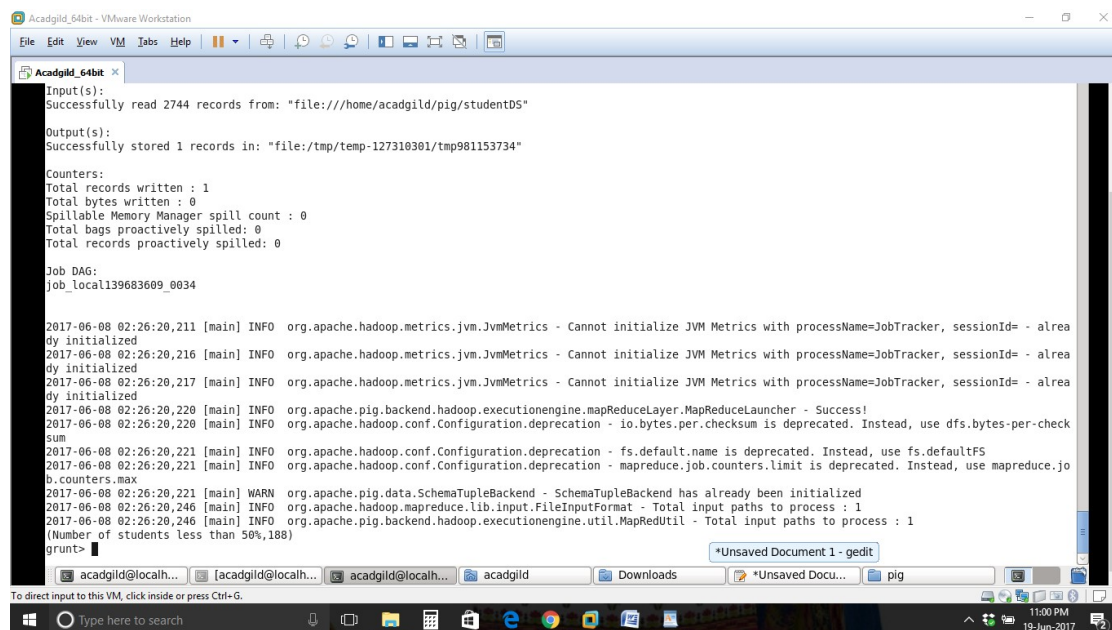
student_less_than_50_group = group student_less_than_50 all;

student_less_than_50_count = foreach student_less_than_50_group generate 'Number of students less than 50%' , COUNT($0);

student_less_than_50_count = foreach student_less_than_50_group generate 'Number of students less than 50%' , COUNT(student_less_than_50.grade);

dump student_less_than_50_count;

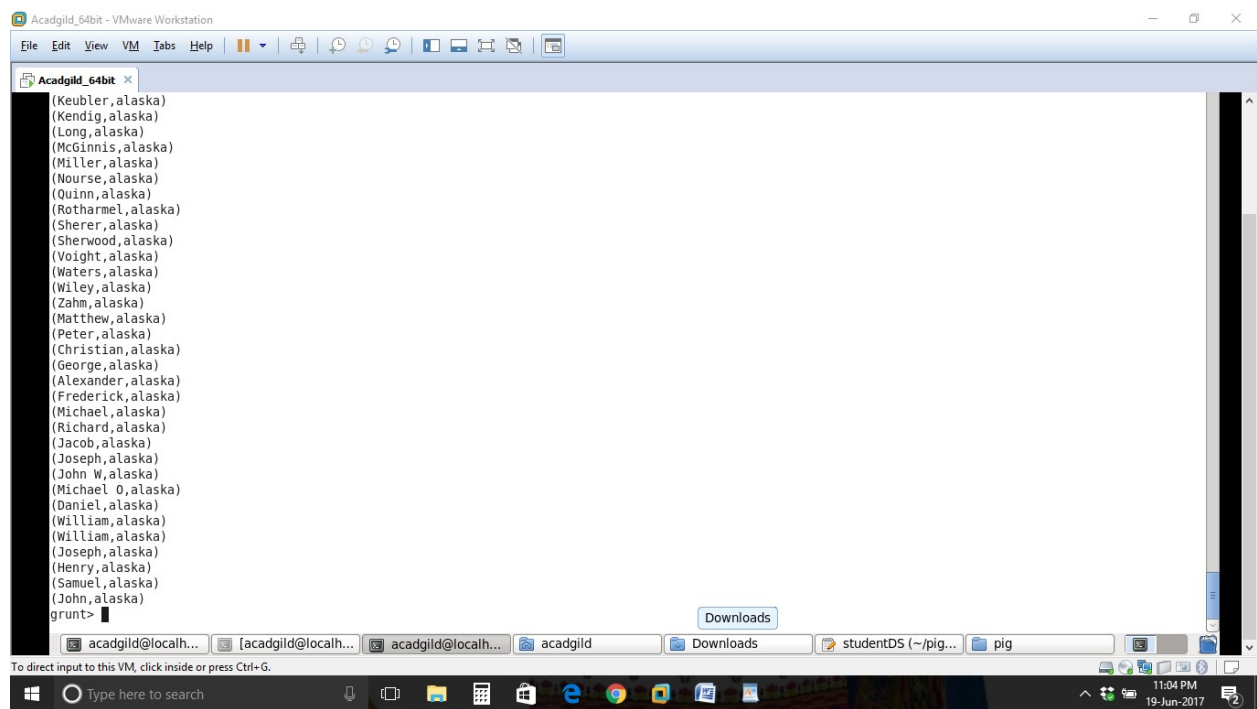**Number of Students who scored less than 50%**

2. Problem Statement

List the name of students who are from Alaska.

student_state = foreach student_data generate stu_name,state;

student_Alaska = filter student_state by state='alaska';

dump student_Alaska

Name of Students in Alaska

3. Problem Statement

How many government collages are there in Alabama?
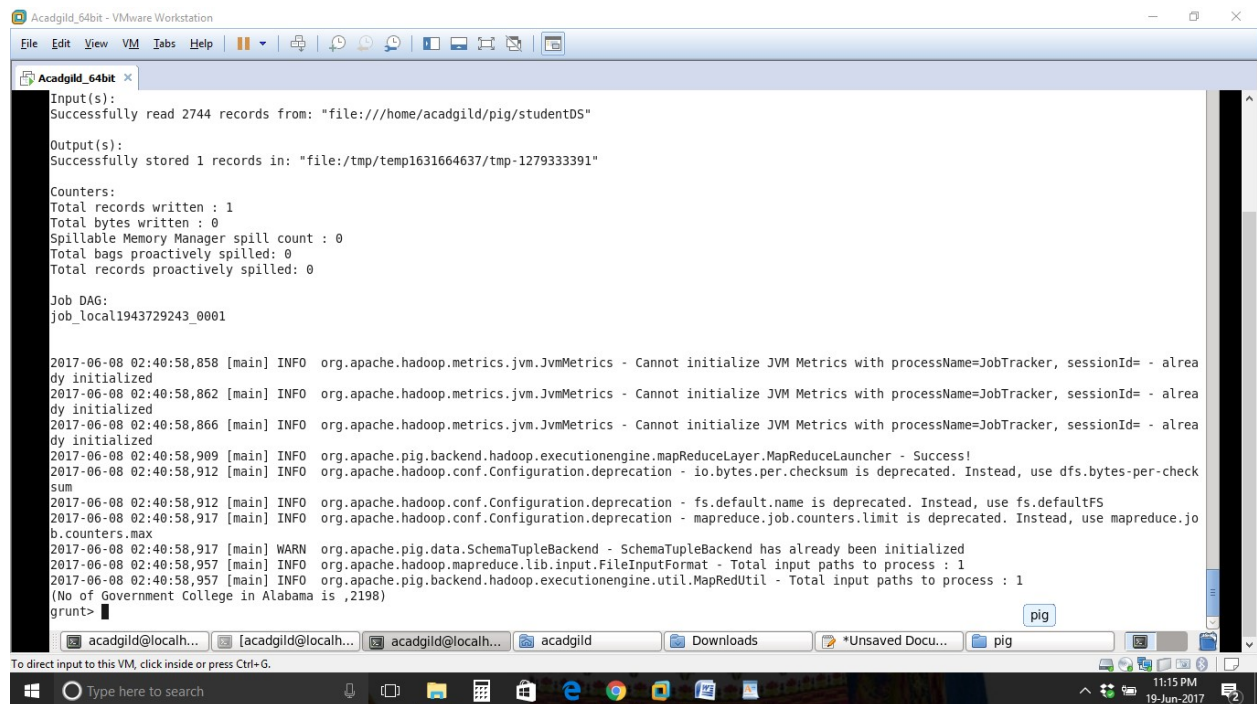
college_state_data = foreach student_data generate college,state;

college_in_alabama = filter college_state_data by college matches'goverenment' and state matches'alabama';

government_college_alabama_group = group college_in_alabama all;

government_college_alabama_count = foreach government_college_alabama_group generate 'No of Government College in Alabama is ', COUNT(college_in_alabama.college);

dump government_college_alabama_count;

No. of Government Colleges in Alabama

4.Problem Statement

List the name of students who are from Oregon and persuing BE.

student_name_details = foreach student_data generate stu_name,state,stream1;

student_oregon_BE = filter student_name_details by state matches'oregon' and stream1 matches'BE';

student_name_oregon_BE = foreach student_oregon_BE generate stu_name;

dump student_name_oregon_BE;