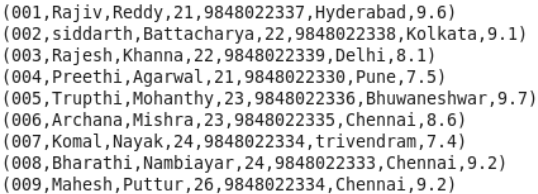
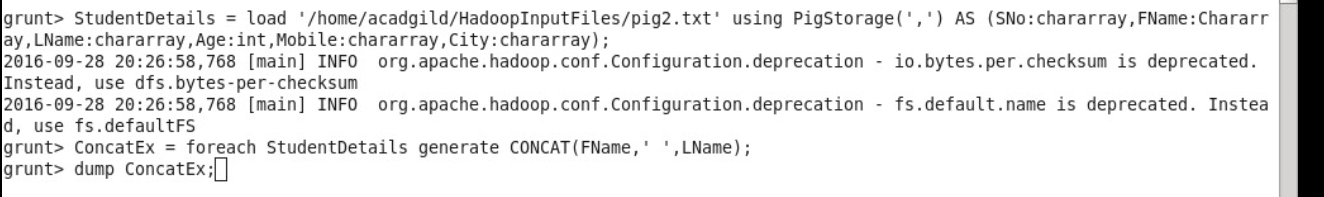
Data set considered & stored into Stud\_Data relation as below having SNo : chararray,FName:chararray,LName:chararray,Age:int,Mobile:chararray,City:chararray,GPA:float



1. Concat:

Performed concatenation on FName & Lname and formed Full Name as below



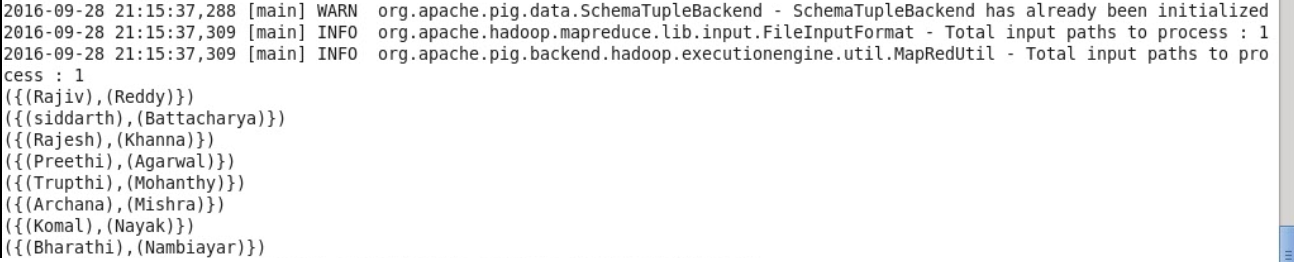
Output:



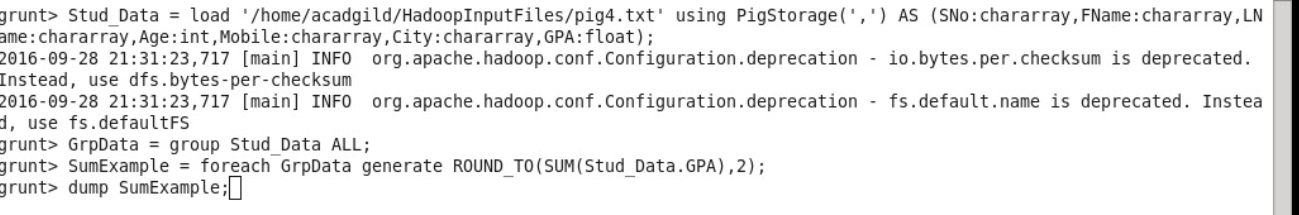
1. Tokenize



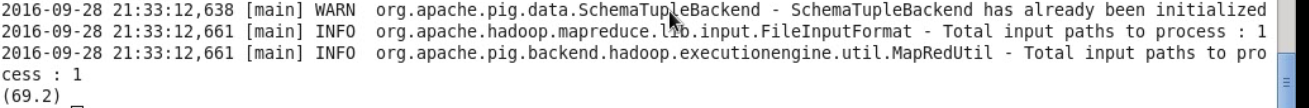
Output:



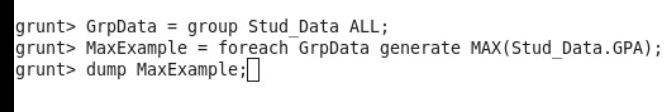
3)Sum



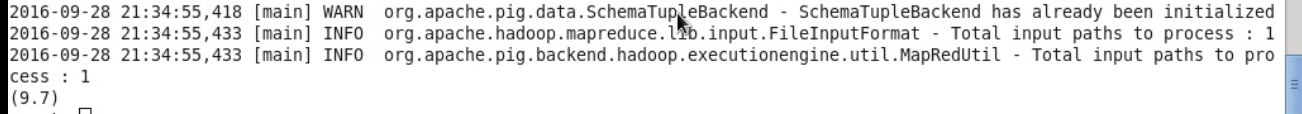
Output:



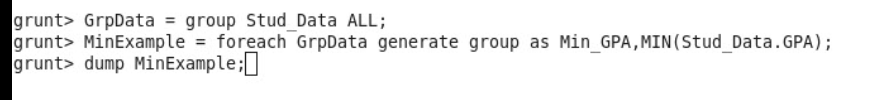
4)Max



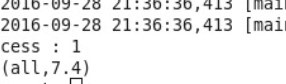
Output:



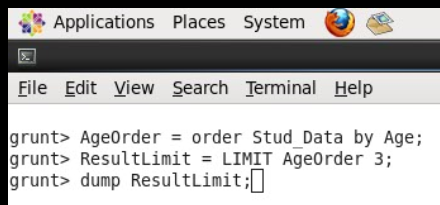
5) Min



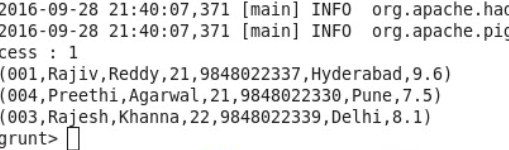
Output:



6) Limit



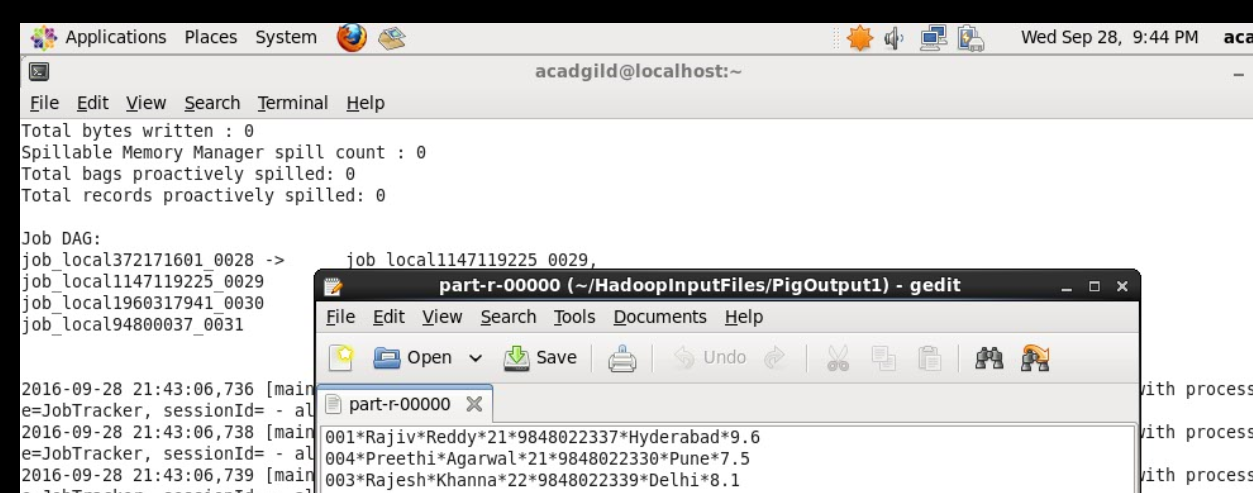
Output:



7) Store



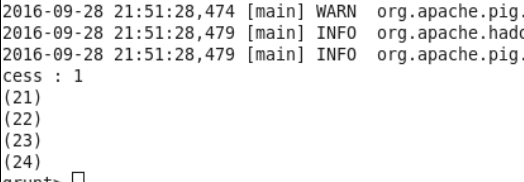
Output:



8) DISTINCT



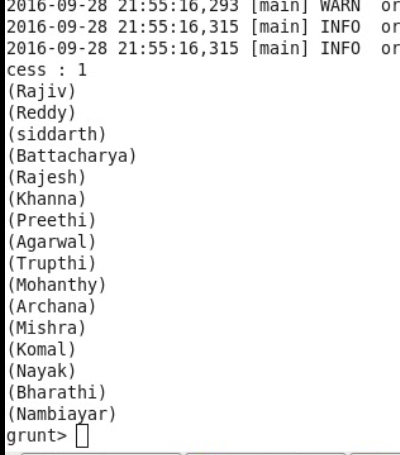
Output:



9) FLATTEN



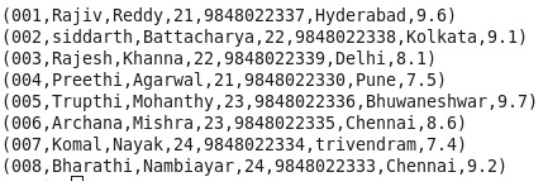
Output:



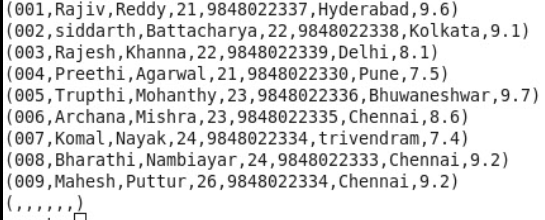
10) IsEmpty

Here, we considered two relations ie Stud\_Data& Stud\_Data1 having below data sets

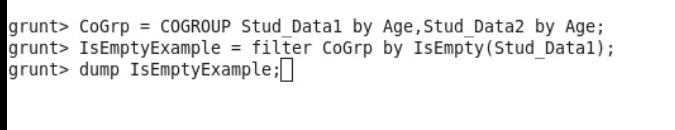
DataSet for Stud\_Data as below,

,

DataSet for Stud\_Data1 as below,



And then performed CoGroup on these two relations & verified if any empty bags found on result relation as below



Output:

