1. **What is the total amount of petrol in volume sold by every distributer?**

**A = load ‘/home/cloudera/petrol.txt’ using PigStorage(‘,’) as (ID:varchar,distri:chararray:buy:int,sell:int,voumein:int,volumeout:int,year:int);**

**B = group A by distri;**

**C = foreach B generate group, SUM(A.volumeout);**

**Dump C;**

**(shell,69266)**

**(Bharat,83662)**

**(reliance,76558)**

**(hindustan,71767)**

1. **Which are the top 10 distributers ID's for selling petrol? Also display the amount of petrol sold in volume.**

**A = Load '/home/cloudera/petrol.txt' using PigStorage(',') as (DID:chararray,Dname:chararray,BuyRate:chararray,SellRate:chararray,VolumeIn:int,VolumeOut:int,Year:int);**

**topId = order A by VolumeOut DESC;**

**topId10 = limit topId 10;**

**topSold10 = group topId10 by DID;**

**finalResult = foreach topSold10 generate group, SUM(topId10.VolumeOut);**

**( +E6O 9P1,895)**

**( +F6W 6H3,896)**

**( +J4M 4G3,895)**

**( +M6S 1P4,895)**

**( +N5Q 8E5,895)**

**( +O8A 6Z5,897)**

**( +O9P 9S3,897)**

**( +S8W 0P4,899)**

**( +T1A 9W4,899)**

**( +V8U 2T6,898)**

1. **List 10 years where consumption of petrol is more with the distributer id who sold it**

**A = Load '/home/cloudera/petrol.txt' using PigStorage(',') as (DID:chararray,Dname:chararray,BuyRate:chararray,SellRate:chararray,VolumeIn:int,VolumeOut:int,Year:int);**

**B = filter A by VolumeIn>VolumeOut;**

**C = group B by (DID,Year);**

**D = foreach C generate group, flatten(B);**

**finalResult = limit D 10;**

**((+I4N 1M1,1624),+I4N 1M1,shell,$957.70,$5779.92,933,843,1624)**

**(( +A0I 5Q8,1756), +A0I 5Q8,reliance,$879.35,$11789.66,1055,818,1756)**

**(( +A0M 0G6,1999), +A0M 0G6,Bharat,$899.27,$11590.58,930,691,1999)**

**(( +A0P 2M4,1917), +A0P 2M4,Bharat,$840.81,$9564.21,952,662,1917)**

**(( +A0V 7Q3,1942), +A0V 7Q3,Bharat,$854.65,$2991.80,1089,880,1942)**

**(( +A0X 9H9,1784), +A0X 9H9,hindustan,$899.94,$3753.08,1048,625,1784)**

**(( +A2M 7X9,1776), +A2M 7X9,hindustan,$808.51,$7109.03,1048,858,1776)**

**(( +A2S 5V8,1752), +A2S 5V8,shell,$878.95,$11492.82,1011,849,1752)**

**(( +A2W 5W2,1878), +A2W 5W2,reliance,$860.95,$2842.42,1053,764,1878)**

**(( +A4U 9B2,2014), +A4U 9B2,hindustan,$912.71,$6974.14,931,731,2014)**

1. **Find the distributer name who sold petrol in least amount.**

**A = Load '/home/cloudera/petrol.txt' using PigStorage(',') as (DID:chararray,Dname:chararray,BuyRate:chararray,SellRate:chararray,VolumeIn:int,VolumeOut:int,Year:int);**

**B = group A by Dname;**

**C = foreach B generate group, MIN(A.SellRate);**

**Dump C;**

**(shell,$1006.63)**

**(Bharat,$10029.48)**

**(reliance,$10176.51)**

**(hindustan,$10109.03)**