**Creation of Table in Hive and Loading of data**

**create table petrol (distributer\_id STRING,distributer\_name STRING,amt\_IN STRING,amy\_OUT STRING,vol\_IN INT,vol\_OUT INT,year INT) row format delimited fields terminated by ‘,’ stored as textfile;**

**load data local inpath ‘/home/hduser/petrol.txt’ into table petrol;**

**1)In real life what is the total amount of petrol in volume sold by every distributor?  
select distributer\_id,sum(vol\_out) as total from petrol1 group by distributer\_id order by total desc limit 10;**

T1A 9W4 899

S8W 0P4 899

V8U 2T6 898

O9P 9S3 897

O8A 6Z5 897

F6W 6H3 896

M6S 1P4 895

N5Q 8E5 895

J4M 4G3 895

E6O 9P1 895

**2)Which are the top 10 distributors ID’s for selling petrol and also display the amount of petrol sold in volume by them individually?**

**select distributer\_id, max(amt\_out) as DMAX, sum(vol\_out) as total from petrol1 group by distributer\_id order by DMAX desc limit 10;**

F2C 6A5 11992 891

T4L 8D0 11992 640

M6S 1P4 11988 895

C9F 6I0 11969 837

H8W 3U0 11913 614

X6E 2N5 11877 743

C1K 7H9 11873 692

A0I 5Q8 11789 818

T6Q 0L9 11765 805

V8U 2T6 11744 898

**3)Find real life 10 distributor name who sold petrol in the least amount.**

**select distributer\_id,distributer\_name, sum(amt\_in) as amt from petrol1 group by distributer\_id,distributer\_name order by amt asc limit 10;**

X6E 2N5 shell 800

T0U 2V6 reliance 800

K7C 4C1 Bharat 801

M6S 1P4 Bharat 801

O5D 2R6 hindustan 801

D1N 6E3 Bharat 801

A9P 7L9 reliance 802

C5X 1C3 reliance 802

Y1L 8H2 hindustan 802

B1C 2A4 shell 802

4) The constraint to this query is the difference between volumeIN and volumeOuT is illegal in real life if greater than 500. As we see all distributors are receiving patrols on every next cycle.

**List all distributors who have this difference, along with the year and the difference which they have in that year.**

Hint: (vol\_IN-vol\_OUT)>500

select \*,(vol\_in-vol\_out) as Difference from petrol1 where vol\_in-vol\_out>500;

OK

Time taken: 0.078 seconds