

Retail Sports Dataset

Retail sport store dataset has Transaction details data and the Customer details data. We need to analyse the data and give some insights for business growth.

Retail Sports dataset has 2 dataset files. Transaction File and Customers File.

Understanding Data

The data format is comma separated values. There are 50000 observations.

- Transaction File contains 9 columns made up of following:
txnno ,txndate,custno,amount,category,product,city,state,spendby
- Customer file contains 5 columns made up of following:
custno,firstname,lastname,age, profession

UseCase = Analyse the amount spend by different age group people

```
hive> create database retail;
```

```
hive> use retail;
```

```
hive> create table Transaction(
```

```
> txnno int,txndate string,custno string,amount double,category string,product string,city  
string,state string,spendby string)
```

```
> row format delimited fields terminated by ','
```

```
> stored as textfile;
```

```
hive> load data local inpath 'file:///home/cloudera/khasimbabu/HIVE_Excercise/Dataset_txns1.txt'  
into table Transaction;
```

```
hive> select * from Transaction limit 5;
```

0	06-26-2011	4007024	40.33	Exercise & Fitness	Cardio Machine Accessories
	Clarksville	Tennessee	credit		
1	05-26-2011	4006742	198.44	Exercise & Fitness	Weightlifting Gloves
	Long Beach	California	credit		
2	06-01-2011	4009775	5.58	Exercise & Fitness	Weightlifting Machine
	Accessories	Anaheim	California	credit	
3	06-05-2011	4002199	198.19	Gymnastics	Gymnastics Rings Milwaukee
	Wisconsin	credit			
4	12-17-2011	4002613	98.81	Team Sports	Field Hockey Nashville
	Tennessee	credit			

```
hive> select count(*) from Transaction;
```

→ Hive will convert the query and launch a Map-Reduce job and give the results.

```
hive> create table Customer(
```

```
> custno string,firstname string,lastname string,age int, profession string)
```

> row format delimited fields terminated by ',';

```
hive> load data local inpath 'file:///home/cloudera/khasimbabu/HIVE_Excercise/Dataset_custs.txt'
into table Customer;
```

```
hive> select * from Customer limit 10;
```

OK

4000001	Kristina Chung	55	Pilot
4000002	Paige Chen	74	Teacher
4000003	Sherri Melton	34	Firefighter
4000004	Gretchen Hill	66	Computer hardware engineer
4000005	Karen Puckett	74	Lawyer
4000006	Patrick Song	42	Veterinarian
4000007	Elsie Hamilton	43	Pilot
4000008	Hazel Bender	63	Carpenter
4000009	Malcolm Wagner	39	Artist
4000010	Dolores McLaughlin	60	Writer

Time taken: 0.079 seconds, Fetched: 10 row(s)

```
hive> create table out1(
```

```
> custno string,firstname string,age int,profession string,amount double,product string)
```

```
> row format delimited fields terminated by ',';
```

```
hive> insert overwrite table out1
```

```
> select a.custno,a.firstname,a.age,a.profession,b.amount,b.product
```

```
> from Customer a JOIN Transaction b ON a.custno=b.custno;
```

```
hive> set hive.cli.print.header=true;
```

```
hive> select * from out1 limit 10;
```

OK

out1.custno	out1.firstname	out1.age	out1.profession	out1.amount	out1.product
4007024	Cameron	59	Actor	40.33	Cardio Machine Accessories
4006742	Gregory	36	Accountant	198.44	Weightlifting Gloves
4009775	Ruby	44	Designer	5.58	Weightlifting Machine Accessories
4002199	Keith	44	Police officer	198.19	Gymnastics Rings
4002613	Hugh	43	Engineering technician	98.81	Field Hockey
4007591	Jennifer	54	Electrician	193.63	Camping & Backpacking & Hiking
4002190	Sheryl	62	Designer	27.89	Jigsaw Puzzles
4002964	Ken	67	Recreation and fitness worker	96.01	Sandboxes
4007361	Terri	52	Loan officer	10.44	Snowmobiling
4004798	Geoffrey	65	Chemist	152.46	Bungee Jumping

Time taken: 0.069 seconds, Fetched: 10 row(s)

```
hive> create table out2(
```

```
> custno string,firstname string,age int, profession string, amount double, product string, level
string)
```

```
> row format delimited fields terminated by ',';
```

```
hive> insert overwrite table out2
```

```
> select *, case
```

```
> when age<30 then 'low'
```

```
> when age>=30 and age<50 then 'middle'
> when age>=50 then 'old'
> else 'others'
> end
> from out1;
```

```
hive> select * from out2 limit 5;
```

```
OK
```

out2.custno	out2.firstname	out2.age	out2.profession	out2.amount	out2.product	out2.level
4007024	Cameron	59	Actor	40.33	Cardio Machine Accessories	old
4006742	Gregory	36	Accountant	198.44	Weightlifting Gloves	middle
4009775	Ruby	44	Designer	5.58	Weightlifting Machine Accessories	middle
4002199	Keith	44	Police officer	198.19	Gymnastics Rings	middle
4002613	Hugh	43	Engineering technician	98.81	Field Hockey	middle

```
Time taken: 0.066 seconds, Fetched: 5 row(s)
```

```
hive> create table out3(
```

```
> level string, amount double)
```

```
> row format delimited fields terminated by ',';
```

```
hive> insert overwrite table out3
```

```
> select level, SUM(amount) from out2 group by level;
```

```
hive> select * from out3;
```

```
OK
```

out3.level	out3.amount
low	725221.3399999988
middle	1855861.6699999996
old	2529100.310000011

```
Time taken: 0.079 seconds, Fetched: 3 row(s)
```