Hive Lab : Loading Array, Struct, Map collection Items

[training@localhost ~]$ cat profile1  
101,Venu,btech#mtech,25,hyd  
102,Veni,bsc#msc#mtech,26,pune  
[training@localhost ~]$   
  
  
  
hive> create database pract;  
OK  
Time taken: 1.798 seconds  
hive> use pract;  
OK  
Time taken: 0.027 seconds  
hive> create table profile1(  
    >   id int, name string,   
    >     qual  array<string>, age int,  
    >     city string)   
    > row format delimited          
    >     fields terminated by ','  
    >     collection items terminated by '#';  
  
hive> load data local inpath 'profile1'  
    >   into table profile1;  
Copying data from file:/home/training/profile1  
Copying file: file:/home/training/profile1  
Loading data to table pract.profile1  
OK  
Time taken: 0.208 seconds  
hive> select \* from profile1;  
OK  
101     Venu    ["btech","mtech"]       25      hyd  
102     Veni    ["bsc","msc","mtech"]   26      pune  
Time taken: 0.199 seconds  
hive>   
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
[training@localhost ~]$ cat profile2  
101,Venu,Vani#25#btech,hyd  
102,Varun,Varuna#24#mba,pune  
[training@localhost ~]$   
  
hive> create table profile2(  
    >  id int, name string,   
    >   wife struct<name:string,age:int,qual:string>, city string)  
    >   row format delimited   
    >     fields terminated by ','  
    >     collection items terminated by '#';  
OK  
Time taken: 0.044 seconds  
hive> load data local inpath 'profile2'  
    >   into table profile2;  
Copying data from file:/home/training/profile2  
Copying file: file:/home/training/profile2  
Loading data to table pract.profile2  
OK  
Time taken: 0.1 seconds  
hive>   
hive> select \* from profile2;  
OK  
101     Venu    {"name":"Vani","age":25,"qual":"btech"}   hyd  
102     Varun   {"name":"Varuna","age":24,"qual":"mba"}   pune  
Time taken: 0.066 seconds  
hive> select name, wife.name from profile2;  
  
Venu    Vani  
Varun   Varuna  
  
hive> create table info(id int, name string,   
    >   wname string, wage int, wqual string,   
    >   city string)  
    > ;  
OK  
Time taken: 0.039 seconds  
hive> insert overwrite table info  
    >   select id, name, wife.name, wife.age,  
    >   wife.qual , city  from profile2;  
  
hive> select \* from info;  
OK  
101     Venu    Vani    25      btech   hyd  
102     Varun   Varuna  24      mba     pune  
Time taken: 0.066 seconds  
hive>   
  
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
[training@localhost ~]$ cat profile3  
101,p1#1000$p3#2000$p7#4000,hyd  
102,p1#1200$p2#5000,del  
[training@localhost ~]$   
  
hive> create table  trans(cid int,   
    >   plist map<string,int>,  
    >  city string)  
    > row format delimited   
    >    fields terminated by ','  
    >    collection items terminated by '$'  
    >   map keys terminated by '#';  
OK  
Time taken: 0.048 seconds  
hive> load data local inpath 'profile3'  
    >   into table trans;  
Copying data from file:/home/training/profile3  
Copying file: file:/home/training/profile3  
Loading data to table pract.trans  
OK  
Time taken: 0.103 seconds  
  
hive> select cid, plist['p1'] , city from trans;  
  
hive>  
101     1000    hyd  
102     1200    del  
  
  
hive> create table sales(cid int,   
    >    prid  array<string>,  
    >   pr array<int>);  
OK  
Time taken: 0.05 seconds  
hive> insert overwrite table sales  
    >   select cid, map\_keys(plist),  
    >    map\_values(plist)  from trans;  
  
  
hive> select \* from sales;  
OK  
101     ["p1","p3","p7"]        [1000,2000,4000]  
102     ["p1","p2"]     [1200,5000]  
Time taken: 0.056 seconds  
hive>   
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