1. Ignore creation of below data files if you already have downloaded from
2. <https://drive.google.com/drive/folders/164-Gih1FxsxJNX_d-ufmpkT8QsAezPDL?usp=sharing>
3. Create Database named complex and change your database.

| create database complex; |
| --- |
| use complex; |

1. Create file name arrayfile with given data

| 1,abc,40000,a$b$c,hyd  2,def,3000,d$f,bang |
| --- |

| touch arrayfile  nano arrayfile  copy above 2 lines and paste  clt +s  clt +x |
| --- |

Create Array Table in hive

| create table tab7 (id int,name string,sal bigint,sub **array<string>**,city string)  row format delimited fields terminated by ',' **collection items terminated by '$'**; |
| --- |

1. Load data into hive table from file

| load data local inpath 'arrayfile' overwrite into table tab7; |
| --- |

Access the elements from array

| select sub[2] from tab7 where id=1;  select sub[0] from tab7; |
| --- |

Create Map file and Table

Create file name mapfile and copy below data into it.

| 1,abc,40000,a$b$c,pf#500$epf#200,hyd  2,def,3000,d$f,pf#500,bang |
| --- |

| create table tab10(id int,name string,sal bigint,sub array<string>,dud **map<string,int>**,city string)  row format delimited fields terminated by ',' collection items terminated by '$' map keys terminated by '#'; |
| --- |
| load data local inpath 'mapfile' overwrite into table tab10; |
| select dud["pf"] from tab10; |
| select dud["pf"],dud["epf"] from tab10; |

Create file structfile

Copy below data into file

| 1,abc,40000,a$b$c,pf#500$epf#200,hyd$ap$500001  2,def,3000,d$f,pf#500,bang$kar$600038 |
| --- |

| create table tab11 (id int,name string,sal bigint,sub array<string>,dud map<string,int>,addr **struct<city:string,state:string,pin:bigint>**) row format delimited fields terminated by ',' collection items terminated by '$' map keys terminated by '#'; |
| --- |
| load data local inpath 'structfile' into table tab11; |
| select addr.city from tab11; |