

complex data structures Array,map,struct

```
0: jdbc:hive2://> create table mobilephones (  
..... > id string,  
..... > title string,  
..... > cost float,  
..... > colors array,  
..... > screen_size array  
..... > );
```

OK

No rows affected (0.167 seconds)

```
0: jdbc:hive2://> insert into table mobilephones  
..... > select "redminote7","Redmi Note 7",300,  
..... > array("white", "silver", "black"),array(float(4.5))  
..... > UNION ALL  
..... > select "motoGplus","Moto G Plus",200,array("black", "gold"),  
..... > array(float(4.5), float(5.5));
```

```
0: jdbc:hive2://> select id,colors[0] from mobilephones;
```

18/02/20 12:50:46 [7ec656d4-a360-4176-8f6c-f86019c94765 main]: WARN
translator.SqlFunctionConverter: The function text was empty, name from annotation is
index

OK

```
+-----+-----+--+  
| id | c1 |  
+-----+-----+--+  
| redminote7 | white |  
| motoGplus | black |  
+-----+-----+--+
```

```
0: jdbc:hive2://> drop table mobilephones;
```

OK

No rows affected (2.408 seconds)

```
0: jdbc:hive2://> create table mobilephones (  
..... > id string,  
..... > title string,  
..... > cost float,  
..... > colors array,  
..... > screen_size array  
..... > )  
..... > row format delimited fields terminated by ','  
..... > collection items terminated by '#';0: jdbc:hive2://> select
```

```
id,features['camera'] from mobilephones;
18/02/20 15:01:58 [7ec656d4-a360-4176-8f6c-f86019c94765 main]: WARN
translator.SqlFunctionConverter: The function text was empty, name from annotation is
index
OK
```

```
+-----+-----+--+
| id | c1 |
+-----+-----+--+
| samsungj7 | NULL |
| onplusthree | NULL |
| | NULL |
+-----+-----+--+
```

```
[root@localhost apache-hive-2.1.1-bin]# nano mobilephones.csv
```

```
samsungj7, Samsung J7, 250,red#blue#black#, 5.5
onplusthree, One Plus Three, 450, gold#silver, 4.5#5.5
```

```
No rows affected (0.202 seconds)
0: jdbc:hive2://> load data local inpath 'mobilephones.csv'
..... > into table mobilephones;
Loading data to table pluralsight.mobilephones
OK
No rows affected (0.472 seconds)
0: jdbc:hive2://> select * from mobilephones;
```

```
... 27 more
```

```
Error: Error while compiling statement: FAILED: ParseException line 2:0 cannot
recognize input near ' ' ' ' in column name or primary key or foreign key
(state=42000,code=40000)
```

```
0: jdbc:hive2://> create table mobilephones (
..... > id string,
..... > title string,
..... > cost float,
..... > colors array,
..... > screen_size array,
..... > features map
..... > )
..... > row format delimited fields terminated by ','
..... > collection items terminated by '#'
..... > map keys terminated by ':';
```

```
nano mobilephoes.csv
```

samsungj7, Samsung J7, 250,red#blue#black#, 5.5, camera:true#dualsim:false
onplusthree, One Plus Three, 450, gold#silver, 4.5#5.5,autofocus:true

```
0: jdbc:hive2://> load data local inpath 'mobilephones.csv'
. . . . . > into table mobilephones;
Loading data to table pluralsight.mobilephones
```

```
0: jdbc:hive2://> select * from mobilephones;
OK
```

```
+-----+-----+-----+-----+
+-----+-----+
| mobilephones.id | mobilephones.title | mobilephones.cost | mobilephones.colors |
mobilephones.screen_size | mobilephones.features |
+-----+-----+-----+-----+
+-----+-----+
| samsungj7 | Samsung J7 | 250.0 | ["red","blue","black",""] | [5.5] | {"
camera":true,"dualsim":false} |
| onplusthree | One Plus Three | 450.0 | [" gold","silver"] | [4.5,5.5] | {"autofocus":true} |
| | NULL | NULL | NULL | NULL | NULL |
+-----+-----+-----+-----+
+-----+-----+
3 rows selected (0.223 seconds)
```

```
0: jdbc:hive2://> select id,features['camera'] from mobilephones;
18/02/20 15:01:58 [7ec656d4-a360-4176-8f6c-f86019c94765 main]: WARN
translator.SqlFunctionConverter: The function text was empty, name from annotation is
index
OK
```

```
+-----+-----+--+
| id | c1 |
+-----+-----+--+
| samsungj7 | NULL |
| onplusthree | NULL |
| | NULL |
+-----+-----+--+
```

```
0: jdbc:hive2://> create table mobilephones (
. . . . . > id string,
. . . . . > title string,
. . . . . > cost float,
. . . . . > colors array,
. . . . . > screen_size array,
. . . . . > features map ,
. . . . . > information struct
. . . . . > )
. . . . . > row format delimited fields terminated by ','
```

```
..... > collection items terminated by '#'  
..... > map keys terminated by ':';
```

```
create table mobilephones (  
id string,  
title string,  
cost float,  
colors array,  
screen_size array,  
features map ,  
information struct  
)  
row format delimited fields terminated by ','  
collection items terminated by '#'  
map keys terminated by ':';
```

<https://stackoverflow.com/questions/42690210/error-applying-authorization-policy-on-hive-configuration-couldnt-create-direc>

```
bin/beeline -u jdbc:hive2://
```

could only be replicated to 0 nodes instead of minReplication (=1). There are 1 datanode(s) running and no node(s) are excluded in this operation.

Error: Error while processing statement: FAILED: Execution Error, return code 1 from org.apache.hadoop.hive.ql.exec.MoveTask.
org.apache.hadoop.ipc.RemoteException(java.io.IOException): File /user/hive/warehouse/pluralsight.db/mobilephones/mobilephones_copy_2.csv could only be replicated to 0 nodes instead of minReplication (=1). There are 1 datanode(s) running and no node(s) are excluded in this operation.