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Course : MCS NoSQL (LAB 07)

## Cassandra Collections:

### Set:

#### Syntax:

```
Create table table_name  
(  
  id int,  
  Name text,  
  Email set<text>,  
  Primary key(id)  
);
```

```
Terminal +  
cqlsh:crs> create table members(  
    ... id int PRIMARY KEY,  
    ... Name text,  
    ... Age int,  
    ... Occupation text,  
    ... Email set<text>;  
cqlsh:crs>
```

```
Terminal +  
cqlsh:crs> insert into members (id,Name,Age,Occupation,Email)  
    ... values (1,'Raj',21,'Student',{'raj@gmail.com', 'kumar@christ.in'});  
cqlsh:crs> insert into members (id,Name,Age,Occupation,Email)  
    ... values (2,'Hareesma',22,'Doctor',{'hari@cra.ca'});  
cqlsh:crs> insert into members (id,Name,Age,Occupation,Email)  
    ... values (3,'Rohin',23,'Engineer',{'rohin@gmail.in', 'lingam@river.in'});  
cqlsh:crs> select * from members;  
  
id | age | email | name | occupation  
---+---+-----+-----+-----  
1 | 21 | {'kumar@christ.in', 'raj@gmail.com'} | Raj | Student  
2 | 22 | {'hari@cra.ca'} | Hareesma | Doctor  
3 | 23 | {'lingam@river.in', 'rohin@gmail.in'} | Rohin | Engineer  
  
(3 rows)  
cqlsh:crs>
```

# List:

Terminal + 🔊 ⌵ ⚙

```
cqlsh:crs> ALTER TABLE members
... add PhoneNumbers list<text>;
cqlsh:crs>
```

Terminal + 🔊 ⌵ ⚙

```
cqlsh:crs> UPDATE members
... SET PhoneNumbers=['9361048881','7356423544']
... WHERE id=1;
cqlsh:crs> UPDATE members
... SET PhoneNumbers=['9360207649','8959171269']
... WHERE id=2;
cqlsh:crs> UPDATE members
... SET PhoneNumbers=['7597427398']
... WHERE id=3;
cqlsh:crs> select * from members;
```

id	age	email	name	occupation	phonenumbers
1	21	{'kumar@christ.in', 'raj@gmail.com'}	Raj	Student	['9361048881', '7356423544']
2	22	{'hari@cra.ca'}	Hareesma	Doctor	['9360207649', '8959171269']
3	23	{'lingam@river.in', 'rohin@gmail.in'}	Rohin	Engineer	['7597427398']

(3 rows)

```
cqlsh:crs>
```

# Map:

Terminal + 🔊 ⌵ ⚙

```
cqlsh:crs> ALTER TABLE members add Booking map<text,int>;
```

Terminal + 🔊 ⌵ ⚙

```
cqlsh:crs> UPDATE members
... SET Booking={'CarID':101,'Cost':10000}
... WHERE id=3;
cqlsh:crs> select * from members;
```

id	age	booking	email	name	occupation	phonenumbers
1	21	null	{'kumar@christ.in', 'raj@gmail.com'}	Raj	Student	['9361048881', '7356423544']
2	22	null	{'hari@cra.ca'}	Hareesma	Doctor	['9360207649', '8959171269']
3	23	{'CarID': 101, 'Cost': 10000}	{'lingam@river.in', 'rohin@gmail.in'}	Rohin	Engineer	['7597427398']

(3 rows)

```
cqlsh:crs>
```

## Export Data to CSV File:

```
Terminal +
cqlsh:crs> Copy members(id,Name,Age,Occupation,Email,PhoneNumbers,Booking)
... TO 'blraj\Desktop\Members_Data.csv' WITH HEADER = TRUE;
Using 1 child processes

Starting copy of crs.members with columns [id, name, age, occupation, email, phonenumbers, booking].
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
Processed: 3 rows; Rate:      6 rows/s; Avg. rate:      6 rows/s
3 rows exported to 1 files in 0.470 seconds.
cqlsh:crs> 
```

## Import Data From CSV File:

```
Terminal +
cqlsh:crs> select * from members;
 id | age | booking | email | name | occupation | phonenumbers
-----+-----+-----+-----+-----+-----+-----
(0 rows)
cqlsh:crs> Copy members(id,Name,Age,Occupation,Email,PhoneNumbers,Booking)
... FROM 'blraj\Desktop\Members_Data.csv' WITH HEADER = TRUE;
Using 1 child processes

Starting copy of crs.members with columns [id, name, age, occupation, email, phonenumbers, booking].
Processed: 3 rows; Rate:      6 rows/s; Avg. rate:      8 rows/s
3 rows imported from 1 files in 0.371 seconds (0 skipped).
cqlsh:crs> select * from members;
 id | age | booking | email | name | occupation | phonenumbers
-----+-----+-----+-----+-----+-----+-----
 1 | 21 | null | {'kumar@christ.in', 'raj@gmail.com'} | Raj | Student | ['9361048881', '7356423544']
 2 | 22 | null | {'hari@cra.ca'} | Hareesma | Doctor | ['9360207649', '8959171269']
 3 | 23 | {'CarID': 101, 'Cost': 10000} | {'lingam@river.in', 'rohin@gmail.in'} | Rohin | Engineer | ['7597427398']

(3 rows)
cqlsh:crs> 
```