## **IMPLEMENTATION:**

## **Installation:**

```
celect-OptPlear

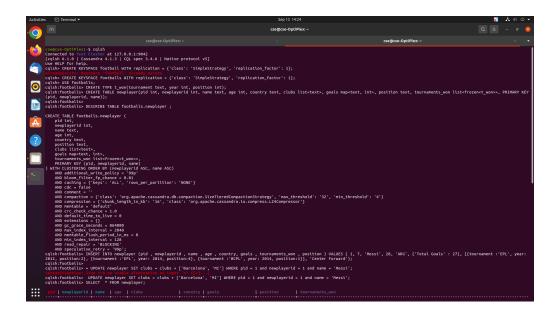
celect
```

## **Queries:**

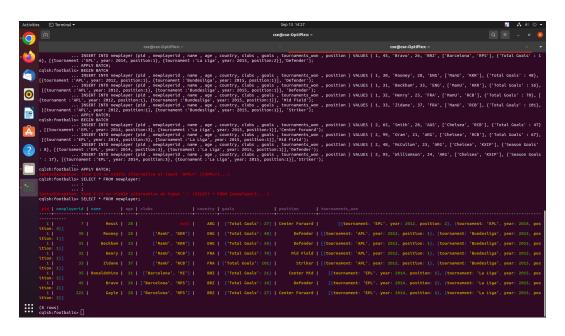
- 1.CREATE KEYSPACE football WITH replication = {'class': 'SimpleStrategy', 'replication\_factor': 1};
- 2.CREATE TYPE t won(tournament text, year int, position int);
- 3.CREATE TABLE newplayer(pid int, newplayerid int, name text, age int, country text, clubs list<text>, goals map<text, int>, position text, tournaments\_won list<frozen<t\_won>>, PRIMARY KEY(pid, newplayerid, name)); 4.DESCRIBE TABLE football.newplayer;
- 5.INSERT INTO newplayer (pid , newplayerid , name , age , country, goals , tournaments\_won , position ) VALUES (1, 7, 'Messi', 28, 'ARG', {'Total Goals' : 27}, [{tournament :'EPL', year: 2012, position:2}, {tournament :'EPL', year: 2014, position:4}, {tournament :'BCPL', year: 2014, position:1}], 'Center Forward');
- 6.UPDATE newplayer SET clubs = clubs + ['Barcelona', 'MI'] WHERE pid = 1 and newplayerid = 1 and name = 'Messi':
- 7.DELETE from newplayer WHERE pid = 1 and newplayerid = 1 and name ='Messi'; 8.BEGIN BATCH
- ... INSERT INTO newplayer (pid , newplayerid , name , age , country, clubs , goals , tournaments\_won , position ) VALUES ( 1, 35, 'Ronaldohino', 21, 'BRZ', ['Barcelona', 'MI'], {'Total Goals' : 21}, [{tournament :'EPL', year: 2014, position:1}, {tournament :'La Liga', year: 2015, position:2}], 'Center Mid');
- ... INSERT INTO newplayer (pid, newplayerid, name, age, country, clubs, goals, tournaments\_won, position) VALUES (1, 222, 'Gayle', 28, 'BRZ', ['Barcelona', 'RPS'], {'Total Goals': 27}, [{tournament: 'EPL', year: 2014, position:1}, {tournament: 'La Liga', year: 2015, position:2}], 'Center Forward');
- ... INSERT INTO newplayer (pid, newplayerid, name, age, country, clubs, goals, tournaments\_won, position) VALUES (1, 45, 'Bravo', 26, 'BRZ', ['Barcelona', 'RPS'], {'Total Goals': 16}, [{tournament: 'EPL', year: 2014, position:1}, {tournament: 'La Liga', year: 2015, position:2}], 'Defender');
  - ... APPLY BATCH;

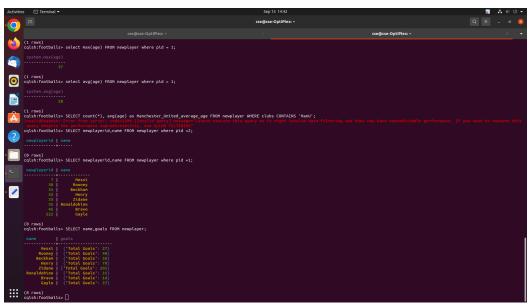
```
9.SELECT * FROM newplayer WHERE pid = 1;
10.select count(*) FROM newplayer where pid = 1;
11.select min(age) FROM newplayer where pid = 1;
12.select max(age) FROM newplayer where pid = 1;
13.select avg(age) FROM newplayer where pid = 1;
14.SELECT name, goals FROM newplayer;
```

## **Screenshots:**



```
Cargae-OpiPles | Geogra-OpiPles | Geogra
```





```
cqlsh:footballs> select count(*) FROM newplayer where pld = 1;

count

(I rows)

(I rows)
```