Luna McBride

Project 3: Cassandra

1&2) (One creates and the other really shows they are created, so I combined these two)

1-> create keyspace key with replication = {'class':'SimpleStrategy', 'replication_factor':1};

(Creates the environment we are going to use)

2-> use key;

(uses the said environment)

```
cqlsh> create keyspace key with replication = {'class':'SimpleStrategy', 'replication_factor':1};
cqlsh> use key;
cqlsh:key>
```

3) describe keyspaces;

(Shows the available environments)

```
cqlsh:key> describe keyspaces;

system_schema  system  system_distributed  a_keyspace
system_auth    key     system_traces

cqlsh:key>
```

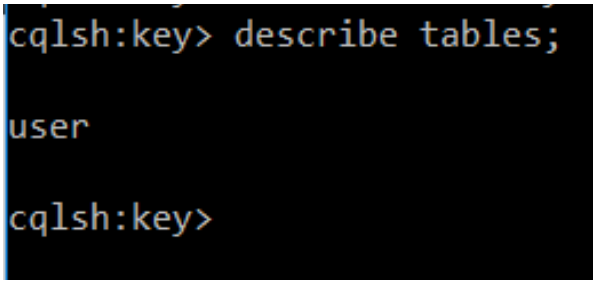
4) CREATE TABLE key.user(email_id text PRIMARY KEY, first_name text, object_id uuid, phone_no text);

(Creates a table in the environment given the values you want it to be available)

```
cqlsh:key> CREATE TABLE key.user(email_id text PRIMARY KEY, first_name text, object_id uuid, phone_no text);
cqlsh:key>
```

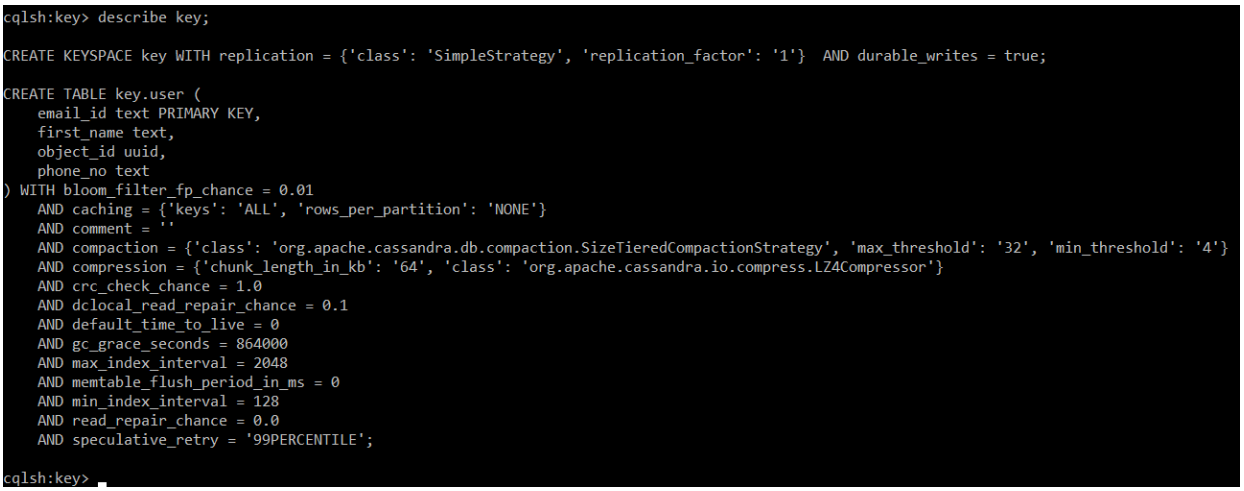
5) describe tables;

(Shows which tables exist in this environment)



6) describe key;

(Shows what this environment is and the tables it has (the schema basically))



7) INSERT INTO key.user(email_id,first_name, object_id, phone_no) VALUES ('ajay.kedia@colorado.edu','Ajay',d0b941ea-1efd-365e-a4fb-4c9de7396840,'7202031694');

(Adds values to the table)

(stretched to make at least a little bit legible)

8) create index if not exists ind on key.user(phone_no);

(Creates an index for better search later)

```
cqlsh:key> create index if not exists ind on key.user(phone_no);
cqlsh:key>
```

9) update key.user set first_name='AJ' where email_id='ajay.kedia@colorado.edu';

(Updates the value of a specified column of a specified row)

```
cqlsh:key> select * from user
       ... ;

 email_id                | first_name | object_id                            | phone_no
-------------------------+------------+--------------------------------------+------------
 ajay.kedia@colorado.edu |       Ajay | d0b941ea-1efd-365e-a4fb-4c9de7396840 | 7202031694

(1 rows)
cqlsh:key> update key.user set first_name='AJ' where email_id='ajay.kedia@colorado.edu';
cqlsh:key> select * from user
       ... ;

 email_id                | first_name | object_id                            | phone_no
-------------------------+------------+--------------------------------------+------------
 ajay.kedia@colorado.edu |         AJ | d0b941ea-1efd-365e-a4fb-4c9de7396840 | 7202031694

(1 rows)
cqlsh:key>
```

10)

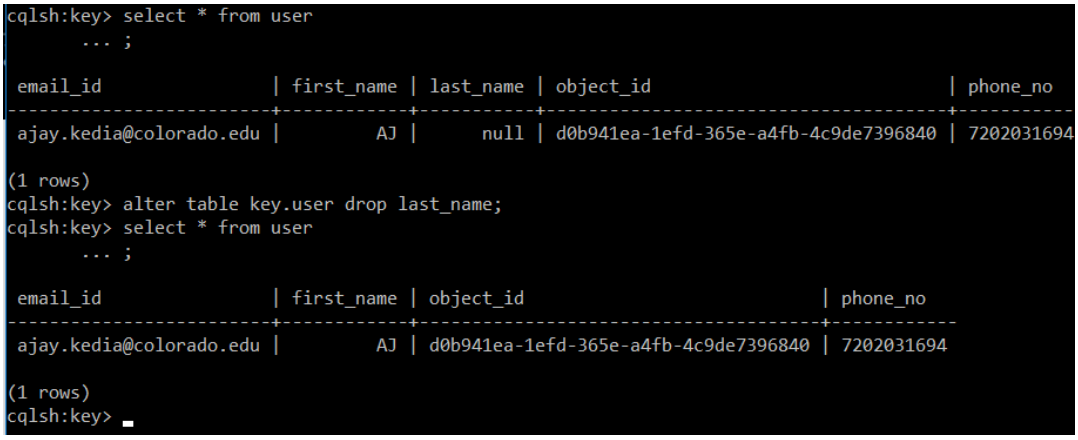
a) alter table key.user add last_name text;

(Adds a column to the table)

```
cqlsh:key> select * from user
       ... ;

 email_id                | first_name | object_id                            | phone_no
-------------------------+------------+--------------------------------------+------------
 ajay.kedia@colorado.edu |         AJ | d0b941ea-1efd-365e-a4fb-4c9de7396840 | 7202031694

(1 rows)
cqlsh:key> alter table key.user add last_name text;
cqlsh:key> select * from user
       ... ;

 email_id                | first_name | last_name | object_id                            | phone_no
-------------------------+------------+-----------+--------------------------------------+------------
 ajay.kedia@colorado.edu |         AJ |      null | d0b941ea-1efd-365e-a4fb-4c9de7396840 | 7202031694

(1 rows)
cqlsh:key>
```

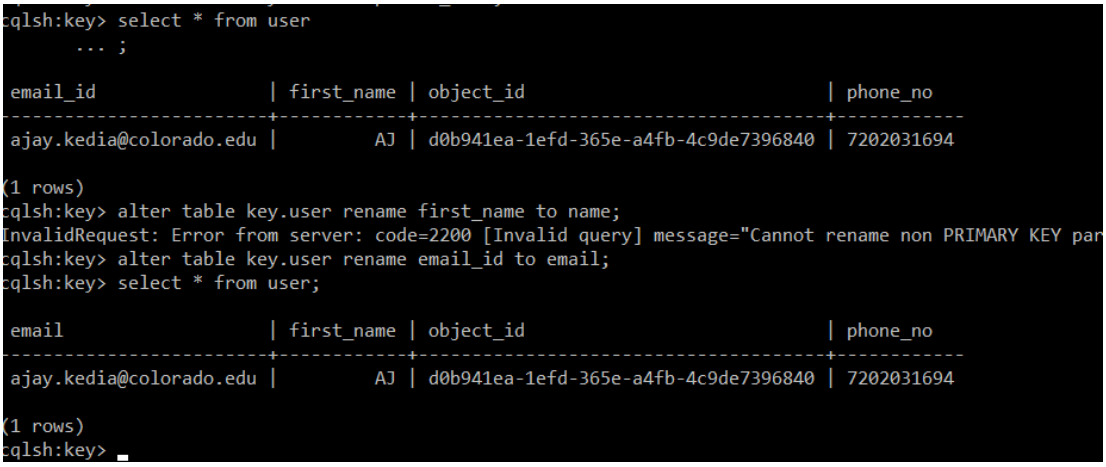
b) alter table key.user drop last_name;

(Deletes the column from a table)



c) alter table key.user rename email_id to email;

(Renames ONLY THE PRIMARY KEY)



11) select * from user;

(How to do queries in Cassandra)

```
cqlsh:key> select * from user;

 email                   | first_name | object_id                            | phone_no
-------------------------+------------+--------------------------------------+-----------
 ajay.kedia@colorado.edu |         AJ | d0b941ea-1efd-365e-a4fb-4c9de7396840 | 7202031694

(1 rows)
cqlsh:key>
```

12&13) (Once again combined, as they are quite similar)

12-> drop table key.user;

(Deletes the table in the environment)

13-> drop keyspace key;

(Deletes the environment)

```
cqlsh:key> drop table key.user
       ... ;
cqlsh:key> drop keyspace key
       ... ;
cqlsh:key> describe keyspaces

system_schema  system              system_traces
system_auth    system_distributed  a_keyspace

cqlsh:key>
```

(key is gone)