

1. Create a keyspace (schema or “collection”) (4):

```
cqlsh> create keyspace sample_keyspace1 with replication={'class':'SimpleStrategy','replication_factor':1};  
cqlsh> describe keyspaces;  
  
sample_keyspace  system_auth  sample_keyspace1  system_traces  
system_schema   system      system_distributed
```

2. Use a keyspace (4):

```
[cqlsh> use sample_keyspace1;  
cqlsh:sample_keyspace1>
```

3. Describe a keyspace (4):

```
cqlsh:sample_keyspace1> describe keyspaces;  
  
sample_keyspace  system_auth  sample_keyspace1  system_traces  
[system_schema   system      system_distributed ]  
  
cqlsh:sample_keyspace1> describe sample_keyspace1;  
  
CREATE KEYSPACE sample_keyspace1 WITH replication = {'class': 'SimpleStrategy', 'replication_factor': '1'}  
    AND durable_writes = true;  
  
cqlsh:sample_keyspace1>
```

4. Create and Describe a table (column family) (6):

```
[cqlsh:sample_keyspace1> create table sample_keyspace1.user_info(email_id text PRIMARY KEY,first_name text,  
last_name text,object_id uuid, phone_number text);
```

```
[cqlsh:sample_keyspace1> describe tables;  
  
user_info  
  
cqlsh:sample_keyspace1>
```

5. Insert a new row (4)

```
[cqlsh:sample_keyspace1> insert into sample_keyspace1.user_info(email_id, first_name, last_name, object_id, phone_number) values  
'zoki4037@colorado.edu', 'Zormene', 'kinanee', 'd0b941ea-1efd-365e-a4fb-4c9de7396840', '3039992222');
```

```
[cqlsh:sample_keyspace1> select * from sample_keyspace1.user_info;
email_id          | first_name | last_name | object_id                               | phone_number
zoki4037@colorado.edu | Zormene   | kinanee   | d0b941ea-1efd-365e-a4fb-4c9de7396848 | 3039992222
(1 rows)
[cqlsh:sample_keyspace1>
```

View of new row inserted

6. Create an index (4)

```
[cqlsh:sample_keyspace1> create index if not exists my_index on sample_keyspace1.user_info(phone_number);
[cqlsh:sample_keyspace1>
```

7. Update a value (4)

```
[cqlsh:sample_keyspace1> update sample_keyspace1.user_info set first_name='Glory' where email_id='zoki4037@colorado.edu';
[cqlsh:sample_keyspace1>
```

```
cqlsh:sample_keyspace1> select * from sample_keyspace1.user_info;
email_id          | first_name | last_name | object_id                               | phone_number
zoki4037@colorado.edu | Glory     | kinanee   | d0b941ea-1efd-365e-a4fb-4c9de7396848 | 3039992222
(1 rows)
[cqlsh:sample_keyspace1>
```

8. Add/Drop/Rename a column (9)

Add:

```
[cqlsh:sample_keyspace1> alter table sample_keyspace1.user_info add dob text;
[cqlsh:sample_keyspace1> describe user_info
CREATE TABLE sample_keyspace1.user_info (
    email_id text PRIMARY KEY,
    dob text,
    first_name text,
    last_name text,
    object_id uuid,
    phone_number text
) WITH CLUSTERING ORDER BY (last_name ASC)
^ output
```

Drop:

```
[cqlsh:sample_keyspace1> alter table sample_keyspace1.user_info drop dob;
[cqlsh:sample_keyspace1> describe user_info
CREATE TABLE sample_keyspace1.user_info (
    email_id text PRIMARY KEY,
    first_name text,
    last_name text,
    object_id uuid,
    phone_number text
) WITH CLUSTERING ORDER BY (last_name ASC)
^ Output
```

9. Run a select query (5)

```
[cqlsh:sample_keyspace1] > select * from sample_keyspace1.user_info;  
email_id | first_name | last_name | object_id | phone_number  
-----+-----+-----+-----+-----  
zoki4837@colorado.edu | Glory | Kinanee | d0b941ea-1efd-365e-a4fb-4c9de7396848 | 3039992222  
(1 rows)
```

10. Drop a table and Drop keyspace (4)

Drop table: the only table in sample_keyspace1 ‘user_info’ was dropped, so there are no tables

```
[cqlsh:sample_keyspace1] > drop table sample_keyspace1.user_info;  
[cqlsh:sample_keyspace1] > describe tables;  
<empty>  
cqlsh:sample_keyspace1>
```

Drop keyspace: sample_keyspace1 no longer appears in list of keyspaces

```
[cqlsh:sample_keyspace1] > drop keyspace sample_keyspace1;  
[cqlsh:sample_keyspace1] > describe keyspaces;  
sample_keyspace  system_auth  system_distributed  
system_schema   system       system_traces
```