1. **Create a keyspace (schema or "collection")**

```
Cassandra CQL Shell
If you experience encoding problems, change your console codepage with 'chcp 65001' before starting cqlsh.

Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.9.0 | CQL spec 3.4.2 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing.  Install to enable tab completion.
cqlsh> create keyspace sample_keyspace with replication={'class':'SimpleStrategy','replication_factor':1};
```

2. **Use a keyspace**

```
cqlsh> use sample_keyspace;
cqlsh:sample_keyspace>
```

3. **Describe a keyspace**

```
cqlsh:sample_keyspace> describe keyspaces;

sample_keyspace   system_auth   system_distributed
system_schema     system        system_traces

cqlsh:sample_keyspace>
```

4. **To Create a table**

```
cqlsh:sample_keyspace> CREATE TABLE sample_keyspace.user_info(
           ... email_id text PRIMARY KEY,
           ... first_name text,
           ... last_name text,
           ... object_id uuid,
           ... phone_no text);
cqlsh:sample_keyspace>
```

5. **View tables/See all column families in cassandra**

```
cqlsh:sample_keyspace> describe tables;

user_info

cqlsh:sample_keyspace> _
```

6. Describe a table;

```
cqlsh:sample_keyspace> describe sample_keyspace;

CREATE KEYSPACE sample_keyspace WITH replication = {'class': 'SimpleStrategy', 'replication_factor': '1'}  AND durable_writes = true;

CREATE TABLE sample_keyspace.user_info (
    email_id text PRIMARY KEY,
    first_name text,
    last_name text,
    object_id uuid,
    phone_no text
) WITH bloom_filter_fp_chance = 0.01
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
    AND comment = ''
    AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
    AND compression = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
    AND crc_check_chance = 1.0
    AND dclocal_read_repair_chance = 0.1
    AND default_time_to_live = 0
    AND gc_grace_seconds = 864000
    AND max_index_interval = 2048
    AND memtable_flush_period_in_ms = 0
    AND min_index_interval = 128
    AND read_repair_chance = 0.0
    AND speculative_retry = '99PERCENTILE';

cqlsh:sample_keyspace>
```

7. Insert command

```
cqlsh:sample_keyspace> Insert into cuwallet_platform.user_info(email_id, firs
t_name, last_name, object_id, phone_no) values('Imran.Dawud@colorado.edu','Im
ran','Dawud',d0b94lea-lefd-365e-a4fb-4c9de7396840, '3035897288');
SyntaxException: line 1:152 no viable alternative at input '-' (...) values('
Imran.Dawud@colorado.edu','Imran','Dawud',[d0b94lea]-...)
```

8. Index Creation

```
cqlsh:sample_keyspace> CREATE INDEX IF NOT EXISTS index_name ON sample_keyspa
ce.user_info(phone_no);
cqlsh:sample_keyspace>
```

9. Update Command

```
cqlsh:sample_keyspace> Update sample_keyspace.user_info set first_name = 'Imr
an' where email_id = 'Imran.Dawud@colorado.edu';
cqlsh:sample_keyspace> select * from user_info
               ... ;

 email_id                  | first_name | last_name | object_id | phone_no
---------------------------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu  |     Imran  |     null  |     null  |     null

(1 rows)
cqlsh:sample_keyspace>
```

10. Alter Command

a. Add a Column

```
cqlsh:sample_keyspace> alter table sample_keyspace.user_info add dob text;
cqlsh:sample_keyspace> select * from user_info;

 email_id                  | dob  | first_name | last_name | object_id | phone_no
---------------------------+------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu | null |     Imran |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace>
```

b. Drop a Column

```
(1 rows)
cqlsh:sample_keyspace> alter table sample_keyspace.user_info add dob text;
cqlsh:sample_keyspace> select * from user_info;

 email_id                  | dob  | first_name | last_name | object_id | phone_no
---------------------------+------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu | null |     Imran |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace> Alter table sample_keyspace.user_info drop dob;
cqlsh:sample_keyspace> select * from user_info;

 email_id                  | first_name | last_name | object_id | phone_no
---------------------------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu |     Imran |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace>
```

c. Rename a Column

```
(1 rows)
cqlsh:sample_keyspace> Alter table sample_keyspace.user_info drop dob;
cqlsh:sample_keyspace> select * from user_info;

 email_id                  | first_name | last_name | object_id | phone_no
---------------------------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu |     Imran |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace> Alter table sample_keyspace.user_info rename email_id to emailI
d;
cqlsh:sample_keyspace> select * from user_info;

 emailid                   | first_name | last_name | object_id | phone_no
---------------------------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu |     Imran |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace>
```

11. Select

```
(1 rows)
cqlsh:sample_keyspace> select * from sample_keyspace.user_info;

 emailid                     | first_name | last_name | object_id | phone_no
-----------------------------+------------+-----------+-----------+----------
 Imran.Dawud@colorado.edu    |    Imran   |      null |      null |     null

(1 rows)
cqlsh:sample_keyspace>
```

12. Drop a table

```
(1 rows)
cqlsh:sample_keyspace> drop table sample_keyspace.user_info;
cqlsh:sample_keyspace> describe tables;

<empty>

cqlsh:sample_keyspace>
```

13. Drop a keyspace

```
cqlsh:sample_keyspace> describe sample_keyspace;

CREATE KEYSPACE sample_keyspace WITH replication = {'class': 'SimpleStrategy',
'replication_factor': '1'}  AND durable_writes = true;

cqlsh:sample_keyspace> drop keyspace sample_keyspace;
cqlsh:sample_keyspace> describe sample_keyspace;

Keyspace 'sample_keyspace' not found.
cqlsh:sample_keyspace>
```