1.Command to create Keyspace:
2.Command to describe the existing Keyspaces:

```
rutazeet@rutazeet-VirtualBox:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.9 | CQL spec 3.4.2 | Native protocol v4]
Use HELP for help.
cqlsh> CREATE KEYSPACE students WITH REPLICATION={'class':'SimpleStrategy','replication_factor':1};
cqlsh> DESCRIBE KEYSPACES;

students  system_schema  system_auth  system  system_distributed  system_traces
```

3.Command to use keyspace students:
4.Command to create a column family or table
5.Command to look up the names of all tables in current keyspace, or in all keyspaces if there is no current space:
6.Command to describe the table

```
cqlsh> USE students;
cqlsh:students> create table Student_Info(RollNo int PRIMARY KEY,StudName text,DateofJoining timestamp,LastExamPercent double);
cqlsh:students> DESCRIBE TABLES;

student_info

cqlsh:students> DESCRIBE TABLE student_info;

CREATE TABLE students.student_info (
    rollno int PRIMARY KEY,
    dateofjoining timestamp,
    lastexampercent double,
    studname 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';
```

CRUD Operations

1.To insertdata into the column family
2.To view the data from the table "Student_Info".

```
cqlsh:students> BEGIN BATCH INSERT INTO student_info(RollNo,StudName,DateofJoining,LastExamPercent) VALUES (1,'Michael Storm','2012-03-29', 69
.6)INSERT INTO student_info (RollNo,StudName,DateofJoining,LastExamPercent) VALUES (2,'Stephen Fox','2013-02-27', 72.5)APPLY BATCH;
cqlsh:students> SELECT *FROM Student_Info;

 rollno | dateofjoining               | lastexampercent | studname
--------+-----------------------------+-----------------+-------------
      1 | 2012-03-28 18:30:00.000000+0000 |            69.6 | Michael Storm
      2 | 2013-02-26 18:30:00.000000+0000 |            72.5 |   Stephen Fox

(2 rows)
```

3.To update the value
4.To view only those records present in the column

```
cqlsh:students> SELECT * FROM Student_Info WHERE RollNo in (1,2);

 rollno | dateofjoining                   | lastexampercent | studname
--------+---------------------------------+-----------------+---------------
      1 | 2012-03-28 18:30:00.000000+0000 |            69.6 | Michael Storm
      2 | 2013-02-26 18:30:00.000000+0000 |            72.5 |    David Sheen

(2 rows)
cqlsh:students> CREATE INDEX ON Student_Info(studname);
```

5.To create an index on the "studname" column of the "student_info"column family use the following statement.
6.To execute the query using the index defined on "studname" column.
7.To create index on the "LastExamPercent" column of the "Student_Info"column family.
8.To specify the number of rows returned in the output using limit.

```
cqlsh:students> SELECT * FROM student_info WHERE studName='Stephen Fox' ;

 rollno | dateofjoining | lastexampercent | studname
--------+---------------+-----------------+----------

(0 rows)
cqlsh:students> CREATE INDEX ON Student_Info(LastExamPercent);
cqlsh:students> SELECT RollNo, LastExamPercent FROM Student_info LIMIT 2;

 rollno | lastexampercent
--------+----------------
      1 |            69.6
      2 |            72.5

(2 rows)
```

9.To use column alias for the column 'StudName'in the Student_Info table.

```
cqlsh:students> SELECT RollNo, StudName AS "Name" FROM Student_Info;

 rollno | Name
--------+----------------
      1 | Michael Storm
      2 |    David Sheen

(2 rows)
```

10.To update more than one column of a row of Cassandra table.

```
cqlsh:students> SELECT * FROM Student_Info where RollNo=2;

 rollno | dateofjoining                   | lastexampercent | studname
--------+---------------------------------+-----------------+----------
      2 | 2013-02-26 18:30:00.000000+0000 |            85.7 |  Samaira

(1 rows)
```

11.To delete the column "LastExamPercent" from the "student_info" table forthe record where the RollNo = 2.

```
cqlsh:students> DELETE LastExamPercent FROM Student_Info WHERE RollNo=2;
cqlsh:students> SELECT *FROMStudentInfo where RollNo=2;
SyntaxException: line 1:8 missing K_FROM at 'FROMStudentInfo' (SELECT *[FROMStudentInfo] where...)
cqlsh:students> SELECT *FROM Student_Info where RollNo=2;

 rollno | dateofjoining                   | lastexampercent | studname
--------+---------------------------------+-----------------+----------
      2 | 2013-02-26 18:30:00.000000+0000 |            null |  Samaira

(1 rows)
```

12.To delete a row from the table Student_Info.

```
cqlsh:students> DELETE FROM Student_Info WHERE RollNo=1;
cqlsh:students> SELECT * FROM Student_Info where RollNo=1;

 rollno | dateofjoining | lastexampercent | studname
--------+---------------+-----------------+----------

(0 rows)
```