```
bmsce@bmsce-Precision-T1700:~$ cd cassandra
bmsce@bmsce-Precision-T1700:~/cassandra$ cd apache-cassandra-3.11.0/
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.05 cd bin
bmsce@bmsce=Precision=T1700:-/cassandra/apache-cassandra-3:11.0/bin$ ./eqlsh
bash: ./eqlsh: No such file or directory
bash: ./eqlsh.: No such file or directory bash: ./eqlsh.: No such file or directory
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin5./cglsh
Dascelbasce-Precision-TI/UU:-/cassandra/spache-cassandra-3.11.U/bin> ./
Connected to Test Cluster at 127.0.0.1:9042.
[cqish 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELF for help.
cqish CREATE KEYSPACE students WITH REPLICATION=[
           ... 'class':'SimpleStrategy'
... 'replication_factor':1};
cqlsh> DESCRIBE KEYSPACES;
students system schema system auth system system distributed system traces
cqlsh> SELECT * FROM system.schema_keyspaces;
InvalidRequest: Error from server: oode=2200 [Invalid query] message="unconfigured table schema_keyspaces"
cqlsh> SELECT * FROM system_schema_keyspaces;
 keyspace_name | durable_writes | replication
                                                                                   True | ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor' '1')
True | ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor' '3')
True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor' '2')
True | ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '2')
True | ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '2')
                system_auth |
system_schema |
   system distributed |
             system |
system_traces |
students |
(6 rows)
cq1sh> USE students;
cq1sh:students> create table Student_info(
... rollno int PRIMARY KEY,
                              ... stdname text,
... DateofJoining timestamp,
                               ... LastExamPercent double)
[1]+ Stopped . /cqlsh
bmscebmsce-Precision-T1700. -/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> USE students
 [2]+ Stopped ./cqlsh
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
Connected to Test Cluster at 127.0.0.1:9042.

[eqish 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]

Use HELP for help.
cqlsh> DESCRIBE KEYSPACES
students system_schema system_auth system system_distributed system_traces
cqlsh> SELECT * FROM system_schema.keyspaces
  keyspace name | durable writes | replication
                                                                                   True | ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': 'l')
True | ('class': 'org.apache.cassandra.locator.localStrategy')
True | ('class': 'org.apache.cassandra.locator.localStrategy')
True | ('class': 'org.apache.cassandra.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locator.locato
                     system_auth |
               system schema
   system distributed
              system |
system traces |
students |
(6 rows)
cqlsh> USE students
cqlsh:students> create table Student_info(
...rollno int PRIMARY KEY,
... stdname text,
... DateofJoining timestamp,
LastExamPercent double);

SyntaxException: line 2:12 no viable alternative at input '.' (create table Student info(
cqlsh:students) create table Student info( rollno int PRIMARY KEY, stdname text, DateofJoining timestamp, LastExamPercent double);
calshistudents> DESCRIBE TABLES:
student_info
cqlsh:students> DESCRIBE TABLE student_info;
CREATE TABLE students.student_info (
           rollno int PRIMARY KEY,
dateofjoining timestamp,
           lastexampercent double,
            stdname text
  ) WITH bloom filter fo chance = 0.01
           AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
        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.L%4Compressor')

AND ctr_check_chance = 1.0

AND dcload_read_rebar_chance = 0.1

AND dcload_read_rebar_chance = 0.1

AND gc_grace_seconds = 864000

AND max_index interval = 2048
           AND max index interval = 2048
        AND max index interval = 20% AND memtable flush period in ms = 0
AND min index interval = 128
AND read_repair_chance = 0.0
AND speculative_retry = '99PERCENTILE';
cqlsh:students> BEGIN BATCH
                                ... student_info(RollNo,StudName,DateofJoining,LastExamPercent)
... VALUES (1,'Michael Storm','2012-03-29', 69.6)
                                 ... INSERT INTO student info
                                ... INSERT INTO STUDENT INTO ST
.... (2, Stephen FOX, 2017-02-27, 72.5)
.... APPLY BATCH;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Undefined column name studname"
cqlah:studenth=8BGIN BATCH INSERT INTO student_info (rollno,stdname,dateofjoining,lastexampercent) VALUES (2, Stephen Fox', 2013-02-27', 72.5) APPLY BATCH;
cqlsh:students> SELECT * from student info;
           1 | 2012-03-28 18:30:00.000000+0000 |
2 | 2013-02-26 18:30:00.000000+0000 |
                                                                                                                                     69.6 | Michael Storm
72.5 | Stephen Fox
(2 rows)
cqlsh:students> script
[31+ Stopped
                                                                                  ./calsh
  bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ script
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin\ stript
Script started, file is typescript
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin\ stopscript
stopscript: command not found
 bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ script
Script started, file is typescript
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ exit
Script done, file is typescript
bmsce@bmsce-Precision-T1700 ~/cassandra/apache-cassandra-3.11.0/bin$ script output.txt
Script started, file is output.txt
```

```
students system_schema system_auth system_system_distributed system_traces
cqlsh> SELECT * FROM system schema.keyspaces
   keyspace_name | durable_writes | replication
                                                                                        True ('class': 'org.spache.cassandra.locator.SimpleTenteny' replication factor': 'l')
true ('class': 'org.apache.cassandra.locator.gapache.cassandra.locator.locator.simpleStrategy', 'replication.factor': '3')
True ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication.factor': '2')
True ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication.factor': '2')
True ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication.factor': '2')
True ('class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication.factor': '1')
                      system auth |
 system_schema |
system_indicated |
                                     system
                 system |
system traces |
(6 rows)
cqlsh> USE students;
 calsh:students> create table Student Info(
student info
calsh:students> DESCRIBE TABLE student info
CREATE TABLE students.student_info (
           rollno int PRIMARY KEY,
dateofjoining timestamp,
            lastexampercent double,
             stdname text
 staname 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.IZ4Compressor'}
        AND compression = ('chunk_length_in_kb'
AND crc_heck_chance = 1.0
AND dclocal_read_repair_chance = 0.1
AND dcfault_inme_tolive - 0
AND dcfault_inme_tolive - 0
AND gc_grace_seconds = 860000
AND max_index_interval = 7048
AND mentable_flush_period_in_ms = 0
AND mini_index_interval = 1288
AND read_repair_chance = 0.0
AND speculative_terty = '99PERCENTILE';
cqlsh:students> SELECT * from student info;
  rollno | dateofjoining
                                                                                                                     | lastexampercent | stdname
                1 | 2012-03-28 18:30:00.000000+0000 |
2 | 2013-02-26 18:30:00.000000+0000 |
                                                                                                                                        69.6 | Michael Storm
72.5 | Stephen Fox
cqlsh:students> UPDATE student info SET stdname='David Sheen' WHERE rollno=2 ;
cqlsh:students> INSERT INTO student_info
                          ... (RollNo,StudName,DateofJoining,LastExamPercent) VALUES ... (2,'Stephen Fox','2013-02-27', 72.5);
...(2, 'Stepnem rox', '2013-02-21', [2.5);
InvalidRequest Error from server: code-2200 [Invalid query] message="Undefined column name studname"
cqlahistudents: INSERT INTO student info (rollno,stdname,dateofjoining,lastexampercent) VALUES (2, 'Stephen Fox','2013-02-27', 72.5);
cqlahistudents> SIELOT * from student info

"Office of the student info

"Office of th
 rollno | dateoficining
                                                                                                                      | lastexampercent | stdname
               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
 cqlsh:students> INSERT INTO student_info (rollno,stdname,dateofjoining,lastexampercent) VALUES (3,'Stephen Fox','2013-02-27', 72.5);
cqlsh:students> SELECT * from student_info;
  rollno | dateofjoining | lastexampercent | stdname
                                                                                                      1 | 2012-03-28 18:30:00.000000+0000 |
               2 | 2013-02-26 18:30:00.000000+0000 |
3 | 2013-02-26 18:30:00.000000+0000 |
 (3 lows) (3 lows) (3 lows) (3 lows) (4 lows) (4 lows) (4 lows) (4 lows) (4 lows) (4 lows) (5 lows) (5 lows) (6 lows) (7 lows) (7 lows) (7 lows) (8 
cqlsh:students> UPDATE student_info SET stdname='David Sheen' WHERE rollno=2; cqlsh:students> SELECT * from student_info;
 rollno | dateoficining
                                                                                                                 | lastexampercent | stdname
                                                                                                                                            69.6 | Michael Storm
72.5 | David Sheen
72.5 | Stephen Fox
72.5 | Stephen Fox
               1 | 2012-03-28 18:30:00.000000+0000 |
               3 | 2013-02-26 18:30:00.000000+0000 |
(4 rows)

cqlsh:students> CREATE INDEX ON student_info(stdname);

cqlsh:students> SELECT * FROM student info WHERE stdname='Stephen Fox'
  rollno | dateoficining
                                                                                                                     | lastexampercent | stdname
             4 | 2013-02-26 18:30:00.000000+0000 |
3 | 2013-02-26 18:30:00.00000+0000 |
(2 rows)
cqlsh:students> CREATE INDEX ON student_info(lastexampercent);
cqlsh:students> SELECT rollno,lastexampercent FROM student_info LIMIT 2;
  rollno | lastexampercent
cqlsh:students> SELECT rollno,stdname AS "Name" FROM student_info
  rollno | Name
              1 | Michael Storm
2 | David Sheen
4 | Stephen Fox
               3 | Stephen Fox
```

bmscekbmsce-Precision-T1700:-/cassandra/apache-cassandra-3.11.0/bin\$./cqlsh Connected to Test Cluster at 127.0.0.1:9042. [cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4] Use HELP for help.

cqlsh> DESCRIBE KEYSPACES;

(4 rows)

```
cqlah:students> UPDATE student info SET stdname="Samaira", lastexampercent-88.7 WHERE rollno-3;
SyntaxException: line 14.1 no viable alternative at input; / (UPDATE student info SET stdname=("Samair]a",...)
cqlah:students> UPDATE student info SET stdname="Samaira",lastexampercent-88.7 WHERE rollno-3;
SyntaxException: line 14.1 no viable alternative at input; / (UPDATE student info SET stdname=("Samair]a",...)
cqlah:students> UPDATE student info SET stdname="Samaira" lastexampercent-(UPDATE student info SET stdname=("Samair]a" lastexampercent)
SyntaxException: line 14.2 no viable alternative at input 'lastexampercent' (UPDATE student info SET stdname=("Samair]a" lastexampercent...)
cqlsh:students> UPDATE student info
... SET stdname="Samaira" lastexampercent=85.7 WHERE rollno=3;
... SET stdname="Samaira" lastexampercent=83.7 WHERE rollno=3;

SyntaxException: line 2:22 no viable alternative at input 'lastexampercent' (UPDATE student_infoSET stdname=["Samair]a" lastexampercent...)

cqlsh:students0 UPDATE student info
... SET stdname="Samaira', lastexampercent=85.7
... WHERE rollno=3;
colsh:students> SELECT rollno.stdname.lastexampercent
                 ... FROM student_info
... WHERE rollno=3;
rollno | stdname | lastexampercent
         3 | Samaira |
                                                         85.7
cqlsh:students> DELETE lastexampercent FROM student_info WHERE rollno=4; cqlsh:students> SELECT * FROM student_info where rollno=4;
         4 | 2013-02-26 18:30:00.000000+0000 |
                                                                                                null | Stephen Fox
cqlsh:students> DELETE FROM student_info WHERE rollno=4;
cqlsh:students> SELECT * FROM student info where rollno=4;
 rollno | dateoficining | lastexampercent | stdname
cqlsh:students> SELECT * FROM student info
 rollno | dateoficining
                                                                                 | lastexampercent | stdname
                                                                                             69.6 | Michael Storm
72.5 | David Sheen
85.7 | Samaira
           2 | 2013-02-26 18:30:00.000000+0000 |
3 | 2013-02-26 18:30:00.000000+0000 |
(3 rows)
cqlsh:students> CREATE TABLE project details(
                      ... project_id int,
... project_name text,
... stdname text,
                        ... PRIMARY KEY (project id, project name)
cqlsh:students> BEGIN BATCH
                      ... INSERT INTO project_details VALUES (1, 'MS data migration', 'David Sheen',3.5, 720)
... INSERT INTO project_details VALUES (1, 'MS data WarehouseSET stdname="Samaira" lastexampercent=85.7 WHERE rollno=3;', 'David Sheen',3.5, 720)
                            .. APPLY BATCH:
SyntaxException: line 2:28 no viable alternative at input 'VALUES' (BEGIN BATCHINSERT INTO [project_details] VALUES...)
cqlsh:students> BEGIN BATCH
                        ntab BEGIN BATCH
INSERT INTO project_details VALUES (1, 'MS data migration', 'David Sheen', 3.5, 720)
INSERT INTO project_details VALUES (1, 'MS data Marehouse', 'David Sheen', 3.9, 1440)
INSERT INTO project_details VALUES (2, 'SAP Reporting', 'Stephen Fox', 4.2, 3000)
INSERT INTO project_details VALUES (2, 'SAP BI DM', 'Stephen Fox', 4, 9000)
... APPLY BATCH;

SyntaxLeograph: line 2:29 no viable alternative at input 'VALUES' (BEGIN BATCH INSERT INTO [project_details] VALUES...)

cqlah:students> BEGIN BATCH INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)

INSERT INTO project_details (project_id, project_name, stdname, rating, duration) VALUES (1, 'MS data Marchouse', 'David Sheen', 3.9, 1440)
 | 1 | MS data Warehouse | 1440 | 3.9 | David Sheen | 1 | MS data migration | 720 | 3.5 | David Sheen | 2 | SAP BI DW | 9000 | 4 | Stephen Fox
                  2 | SAP Reporting | 3000 | 4.2 | Stephen Fox
cqlsh:students> SELECT * FROM project details WHERE project id=1;
 project id | project name | duration | rating | stdname
                 1 | MS data Warehouse | 1440 | 3.9 | David Sheen
1 | MS data migration | 720 | 3.5 | David Sheen
(2 INVS)

CQBhistudents> SELECT * FROM project_details WHERE project_id IN (1,2)

... ORDER BY project_mame DESC;

InvalidRequest: Error from server: code-2200 [Invalid query] message="Cannot page queries with both ORDER BY and a IN restriction on the partition key; you must either remove the ORDER BY or the IN and sort client side, or disable paging for this query"
cqish:students> PAGING OFF;
Disabled Query paging.
cqish:students> SELECT * FROM project_details WHERE project_id IN (1,2) ORDER BY project_name DESC;
```

project_id | project_name | duration | rating | stdname

basce@basce-Precision-T1700:-/cassandra/apache-cassandra-3.11.0/bin\$ exit
Script done, file is output.txt
basce@basce-Precision-T1700:-/cassandra/apache-cassandra-3.11.0/bin\$

3000 | 4.2 | Stephen Fox 9000 | 4 | Stephen Fox 720 | 3.5 | David Sheen 1440 | 3.9 | David Sheen

2 | SAP Reporting | 2 | SAP BI DW | 1 | MS data migration | 1 | MS data Warehouse |

(4 rows) cqlsh:students> PAGING ON; Now Query paging is enabled Page size: 100 cqlsh:students> exit