```
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.
[cqish 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 ct. check_chance = 1.0

AND dcload_read_repair_chance = 0.1

AND dcload_read_repair_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.SimpleTentery' 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
colsh: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-85.7 WHERE rollno-3;
SyntaxException: line 1:41 no viable alternative at input; / (UPDATE student info SET stdname=("Samair]a",...)
cqlah:students> UPDATE student info SET stdname="Samaira",lastexampercent-85.7 WHERE rollno-3;
SyntaxException: line 1:41 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 1:42 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

```
bash: /oqlsh: No such file or directory

Bosce@basce-Procision-T100:-/cassandra/apache-cassandra-3.11.0$ ls
bin conf interface lib NEWS.txt pylib

CHANKES.txt doc javadoc LICENSE.txt NOTICE.txt tools
basce@basce-Procision-T100:-/cassandra/apache-cassandra-3.11.0$ cd bin
basce@basce-Procision-T100:-/cassandra/apache-cassandra-3.11.0\nifts //cqlsh
 Connected to Test Cluster at 127.0.0.1:9042.

[cqlsh 5.0.1 | Cassandra 3.11.5 | CQL spec 3.4.4 | Native protocol v4]
 [cqlsh 5.0.1 | Cas:
Use HELP for help.
 colsh> SELECT * FROM system schema.kevspaces
   keyspace_name | durable_writes | replication
                                                                                                                             True | ('class': 'org.apache.ossandra.locator.SimpleStrategy'. replication_factor'. 11)
True | ('class': 'org.apache.ossandra.locator.SimpleStrategy'. replication_factor': 11)
True | ('class': 'org.apache.ossandra.locator.simpleStrategy'. replication_factor': 13)
True | ('class': 'org.apache.ossandra.locator.simpleStrategy'. replication_factor': 13)
True | ('class': 'org.apache.ossandra.locator.simpleStrategy'. replication_factor': 12)
True | ('class': 'org.apache.ossandra.locator.simpleStrategy'. replication_factor': 12)
                                              student |
      system_auth |
system_schema |
system_distributed |
                                                  system
                      system traces |
                                                                                                                               True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '1'}
(7 rows)

cqlsh: CREATE KEYSPACE employee WITH REPLICATIOn={class:'SimpleStrategy', 'replication_factor':1};

SyntamException: line 1:48 no viable alternative at input ':' (... KEYSPACE employee WITH REPLICATIOn={class}:...)

cqlsh: CREATE KEYSPACE employee WITH REPLICATION={class':'SimpleStrategy', 'replication_factor':1};
 cqlabh CREATE KRISHAUE employee WITH MEPHLARIUMS*("CHESS:":SIMPHESIAGUS", 1 epinesian...,
cqlabh USE employee;
cqlabh:employee> CREATE TABLE employee-info(emp id int FRIMARY KEY, emp name text);
SyntaxKaception: line 1:21 no viable attentive at input '-' (CREATE TABLE [employee]-...)
cqlabh:employee> CREATE TABLE employee_info(emp_id int FRIMARY KEY, emp_name text, designation text, DateofJoining timestamp, salary double, Dept_name text);
cqlabh:employee> CREATE TABLE employee_info(emp_id int FRIMARY KEY, emp_name text, designation text, DateofJoining timestamp, salary double, Dept_name text);
 cglsh:employee> DESCRIBE TABLES;
cqlsh:employee> DESCRIBE TABLE employee info;
CREATE TABLE employee.employee_info (
emp_id int PRIMARY KEY,
dateofjoining timestamp,
                  dent name text.
                  designation text,
   emp_name text,
salary double
) WITH bloom_filter_fp_chance = 0.01
               AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
AND comment = ''
                 AND comment = '' - {'class': 'org.apache.cassandra.db.compaction.SizeTleredCompactionStrategy', 'max threshold': '32', 'min_threshold': '4'}
AND competersion = {'chunk_length_in_kb': '64', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor'}
AND crc_check_chance = 1.0

AND crc_check_chance = 1.0
              AND crccheck_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:employee> BEGIN BATCH
SyntaxException: line 2:0 mismatched input ';' expecting K APPLX (BEGIN BATCH[:]...)

cqlsh:employee> BEGIN BATCH INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (100, 'Eva Smart', 'HOD', '2020-02-28',50000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (120, 'Kelsey Stephens', 'Professor', '2020-03-08',49000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (120, 'Lucar Dept_name, 'Professor', '2020-03-08',49000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (120, 'Lucar Dittman', Associate Professor', '2020-03-08',48000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (121, 'Horace Rice', 'Associate Professor', '2020-03-08',48000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (121, 'Horace Rice', 'Associate Professor', '2020-03-08',48000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (121, 'Horace Rice', 'Associate Professor', '2020-03-09',48000.00, 'CSE')

... INSERT INTO employee info(emp_id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (121, 'Horace Rice', 'Associate Professor', '2020-03-09',48000.00, 'CSE')
 cqlsh:employee> SELECT * from employee info
                                                                                                                                                                                                                                                                                         emp_name
                                                                                                                                                                                                                                                                                                                                                                                           salary
             | 120 | 2020-03-07 18:30:00.000000+0000 | CSE | Professor | Vince Poole | 48000 | 123 | 2020-03-09 18:30:00.000000+0000 | CSE | Assistant Professor | Phyllis Douglas | 47000 | 121 | 2020-03-07 18:30:00.00000+0000 | CSE | Associate Professor | Horace Rice | 48000 | 100 | 2020-02-27 18:30:00.00000+0000 | CSE | Associate Professor | Horace Rice | 48000 | 100 | 2020-02-27 18:30:00.000000+0000 | CSE | MBD | Eva Smart | 50000 | 100 | 2020-02-27 18:30:00.000000+0000 | CSE | MBD | Eva Smart | 50000 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 
  cqlsh:employee> SELECT * from employee_info;
```

cyclabtemployee> BEGIN BATCH INSERT INTO employee info(empid, emp name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (110, 'Vince Poole', 'Professor', '2020-03-08',49000.00,'CSE') INSERT INTO employee_info(empid, emp_name, designation, DateofJoining, salary, Dept_name, DateofJoining, salary, Dept_name, DateofJoining, salary, Dept_name, DateofJoining, salary, Dept_name, DateofJoining, salary, DateofJoining, salary, D

emp_id	dateofjoining	dept_name	designation emp_name	salary
110 120 123 122 121 100	2020-03-07 18:30:00.000000+0000 2020-03-07 18:30:00.000000+0000 2020-03-09 18:30:00.000000+0000 2020-03-07 18:30:00.000000+0000 2020-03-07 18:30:00.000000+0000 2020-027 18:30:00.000000+0000	CSE CSE CSE CSE CSE	Professor Vince Poole Professor Vince Poole Professor Vince Poole Assistant Professor Phyllis Douglas Associate Professor Laurei Dittman Associate Professor Horacce Rice HOD Eve Smart	49000 48000 47000 48000 48000
109	2020-03-07 18:30:00.000000+0000		Professor Kelsey Stephens	

calsh:employee> DELETE from employee info WHERE emp id=110;

cqlsh:employee> SELECT * from employee info ;

bmsce@bmsce-Precision-T1700:~\$ typescript lab2.txt

bmsceptmsce-Precision-T1700:-> script lab/.txt Script started, file is lab/.txt bmsceptmsce-Precision-T1700:-> dc cassandra bmsceptmsce-Precision-T1700:-/cassandra/apache-cassandra-3.11.0/ bmsceptmsce-Precision-T1700:-/cassandra/apache-cassandra-3.11.0/./cplsh

bmsce@bmsce-Precision-T1700:~S script lab2 txt

bash: /cglsh: No such file or directory

typescript: command not found

| dept_name | designation salary 120 | 2020-03-07 18:30:00.000000+0000 | CSE | Professor | Vince Poole |
CSE | Assistant Professor | Phyllis Douglas | Vince Poole | 48000 123 | 2020-03-09 18:30:00.000000+0000 47000 122 | 2020-03-07 18:30:00.0000000+0000 | 121 | 2020-03-07 18:30:00.000000+0000 | 100 | 2020-02-27 18:30:00.000000+0000 | CSE | Associate Professor | Laurel Dittman |
CSE | Associate Professor | Horace Rice |
CSE | HOD | Eva Smart | Professor | Kelsev Stephens | 109 | 2020-03-07 18:30:00.000000+0000 | CSE 49000

cqlsh:employee> UPDATE employee_info SET emp_name='Edwin Mendoza',Dept_name='ISE' WHERE emp_id=121; cqlsh:employee> SELECT * from employee_info ;

emp_id dateofjoining	dept_name	designation	emp_name	- [sala
120 2020-03-07 18:30:00.0000	00+0000 CSE	Professor	Vince Poole	.	4800
123 2020-03-09 18:30:00.0000	00+0000 CSE	Assistant Professor	Phyllis Douglas	١ د	470
122 2020-03-07 18:30:00.0000	00+0000 CSE	Associate Professor	Laurel Dittmar	1	480
121 2020-03-07 18:30:00.0000	00+0000 ISE	Associate Professor	Edwin Mendoza	1 1	480
100 2020-02-27 18:30:00.0000	00+0000 CSE	HOD	Eva Smart	ı i	500
109 2020-03-07 18:30:00.0000	00+0000 CSE	Professor	Kelsey Stephens	i i	490

cglsh:employee> SELECT * FROM employee info ORDER BY salary ASC;

cqlsh:employee> SELECT * FROM employee_info WHERE salary > 0 ORDER BY salary ASC;

```
100 | 2020-02-27 18:30:00.000000+0000 |
                                                              CSE | HOD | Eva Smart |
CSE | Professor | Kelsey Stephens |
     109 | 2020-03-07 18:30:00.000000+0000 |
(clus, cols) remployee info(empid, emp name, designation, DateofJoining, salary, Dept name) VALUES (101, 'Conrad Menzie', 'Intern', '2020-03-28',10000.00, 'CSE') USING TTL 30;
calsh:employee> SELECT * FROM employee info ;
  emp_id | dateofjoining
     120 | 2020-03-07 18:30:00.000000+0000 |
                                                                CSE | Professor | Vince Poole |
CSE | Assistant Professor | Phyllis Douglas |
                                                                                                           Vince Poole | {'Projectl', 'Project2'} | 48000
     123 | 2020-03-09 18:30:00.000000+0000
                                                                                                                                             {'Project2'} | 47000
    122 | mull
121 | 2020-03-07 18:30:00.000000+0000
100 | 2020-02-27 18:30:00 000000
                                                              ouglas | ('Project2') |
null | {'Project2', 'Project4'} |
endoza | ('Project4') |
Smart | ('Project1') |
     109 | 2020-03-07 18:30:00.000000+0000
                                                                                                                                            {'Project1'}
                                                                                                                                                                  49000
     101 | 2020-03-27 18:30:00.000000+0000 |
                                                                                                                                                       null 10000
(7 rows)
cqlsh:employee> SELECT * FROM employee_info ;
 emp id | dateofjoining
                                                     | dept name | designation
                                                                                                  emp name
                                                                                                                          projects
                                                                                                                                                              salarv
                                                                CSE | Professor | Vince Poole | {'Project1', 'Project2'} | 48000
CSE | Assistant Professor | Phyllis Douglas | {'Project2'} | 47000
                                                                                                                   null | {'Project2', 'Project4'} |
     122
                                               null |
                                                               nul1
                                                                                            null
                                                                                                                                                                  null
     121 | 2020-03-07 18:30:00.000000+0000 |
                                                                ISE | Associate Professor | Edwin Mendoza |
CSE | HOD | Eva Smart |
                                                                                                                                             {'Project4'} | 48000
{'Project1'} | 50000
           2020-02-27 18-30-00 000000+0000
                                                                 CSE | Professor | Kelsey Stephens |
     109 | 2020-03-07 18:30:00.000000+0000 |
cqlsh:employee> INSERT INTO employee info(emp id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (122, 'Laurel Dittman', 'Associate Professor', '2020-03-08',48000.00,'CSE'); cqlsh:employee> SIELOT * FROM employee info;
     120 | 2020-03-07 18:30:00.000000+0000 |
                                                                 CSE | Professor | Vince Poole | {'Project1', 'Project2'} | 48000
CSE | Assistant Professor | Phyllis Douglas | {'Project2'} | 47000
     123 | 2020-03-09 18:30:00.000000+0000
                                                                122 | 2020-03-07 18:30:00.000000+0000 |
121 | 2020-03-07 18:30:00.000000+0000 |
100 | 2020-02-27 18:30:00.000000+0000 |
     109 | 2020-03-07 18:30:00.000000+0000 |
Cqish:employee> INSERT INTO employee_info(emp.id, emp.name, designation, DateofJoining, salary, Dept_name) VALUES (101, 'Conrad Menzie', 'Intern', '2020-03-28',10000.00, 'CSE') USING TTL 30 ; cqish:employee> INSERT INTO employee_info(emp.id, emp_name, designation, DateofJoining, salary, Dept_name) VALUES (101, 'Conrad Menzie', 'Intern', '2020-03-28',10000.00, 'CSE') USING TTL 30 ; cqish:employee> INSERT FROM employee_info ;
                                                                CSE | Professor | Vince Poole ('Project1', 'Project2') | 48000 | CSE | Assistant Professor | Phyllis Douglas | ('Project2') | 47000
     120 | 2020-03-07 18:30:00.000000+0000 |
     123 | 2020-03-09 18:30:00.000000+0000
                                                             CSE | Assistant Professor | Phyllis Douglas | ("Project2') | Project2') | Project2') | Project4') | ISE | Associate Professor | Eurel Dittman | ("Project2') | Project4') | ISE | Associate Professor | Edwin Mendoza | ("Project4') | CSE | BDO | Fw Smart | ("Project1') | CSE | Professor | Kelsey Stephens | ("Project1') | CSE | Intern | Conrad Mensie | mull | mull |
     122 | 2020-03-07 18:30:00.000000+0000
                                                                                                                                                                  48000
     121 | 2020-03-07 18:30:00 000000+0000
                                                                                                                                                                  48000
     100 | 2020-02-27 18:30:00.000000+0000
     109 | 2020-03-07 18:30:00.000000+0000 |
     101 | 2020-03-27 18:30:00.000000+0000 |
                                                                                                                                                       null | 10000
(7 rows)
cqlsh:employee> SELECT * FROM employee info;
 emp id | dateofjoining
                                                    | dept name | designation
                                                                                                   emp name
                                                                                                                          projects
                                                                                                                                                              salary
     120 | 2020-03-07 18:30:00.000000+0000 |
123 | 2020-03-09 18:30:00.000000+0000 |
122 | 2020-03-07 18:30:00.000000+0000 |
                                                                CSE | Professor | Vince Poole | {'Project1', 'Project2'} | 48000 | CSE | Assistant Professor | English Douglas | {'Project2'} | 47000 | CSE | Associate Professor | Laurel Dittman | {'Project2', 'Project4'} | 48000
     121 | 2020-03-07 18:30:00.000000+0000
                                                               ISE | Associate Professor | Edwin Mendoza |
                                                                                                                                  {'Project4'} | 48000
{'Project1'} | 50000
     100 | 2020-02-27 18:30:00.000000+0000 |
                                                                                              HOD
                                                                                                             Eva Smart
                                                                                    Professor | Kelsey Stephens |
Intern | Conrad Menzie
     109 | 2020-03-07 18:30:00.000000+0000
cqlsh:employee> SELECT * FROM employee info ;
                                                     | dept_name | designation
                                                                                                  emp_name
     120 | 2020-03-07 18:30:00.000000+0000 |
                                                                 CSE | Professor | Vince Poole | {'Project1', 'Project2'} | 48000
CSE | Assistant Professor | Phyllis Douglas | {'Project2'} | 47000
     123 | 2020-03-09 18:30:00.000000+0000 |
     123 | 2020-03-09 16:30:00.0000000+0000 | CSE | Associate Professor | Laurel Dittman | {'Project2', 'Project4'} | 48000
```

SyntaxKception: line 1:44 no viable alternative at input "" (RELECT * FROM employee into WHERE (emp jod | IN...) cqlah:employee SELECT * FROM employee; ento Window (emp jod | IN...) cqlah:employee SELECT * FROM employee; ento WHERE (emp jod | IN...) cqlah:employee SELECT * FROM employee; ento WHERE Select by is currently supported on the clustered columns of the FRIMARY KEY, got salary "cqlah:employee's SELECT * FROM employee; ento WHERE Select by is alary ASC ALIVER SELECT * FROM employee; ento WHERE Select by a Select by is currently supported on the clustered columns of the FRIMARY KEY, got salary "Callabergoe's SELECT * FROM employee; ento WHERE Select by a Select by a salary ASC ALIVER SELECT * FROM employee; ento WHERE Select by a Sel

emp name

Vince Poole |

CSE | Professor | Vince Poole |
CSE | Assistant Professor | Phyllis Douglas |
CSE | Associate Professor | Laurel Dittman |
ISE | Associate Professor | Edwin Mendoza |

CSE | HOD | Eva Smart |
CSE | Professor | Kelsey Stephens |

cqlsh:employee> UPDATE employee info SET projects=projects+[Project1) WHERE emp_id=100; SyntaxResption: Line 1:52 no viable alternative at input ')' (UPDATE employee info SET projects=projects+[{]Project1}...) cqlsh:employee> UPDATE employee info SET projects=projects+[Project1] WHERE emp_id=100;

| dept name | designation | emp name

Professor

CSE

InvalidRequest: Error from server: code=2200 [Invalid query] message="ORDER BY is only supported when the partition key is restricted by an EQ or an IN."

| projects | salary

null I 49000

cqlah:employee JUDATE employee info SET projects=projects=froject1 MHERE emp_id=100;
SyntaxException: line 1:52 no viable alternative at input !' (UUDATE employee info SET projects=projects=f(]Project1]...)
cqlah:employee JUDATE employee info SET projects=projects=f(]Project1] HHERE emp_id=100;
cqlah:employee JUDATE employee info SET projects=projects=f(]Project1] HHERE emp_id=100;
cqlah:employee JUDATE employee info SET projects=projects=f(]Project2]. HHERE emp_id=120;
cqlah:employee JUDATE employee info SET projects=projects=f(]Projects=f(]Project2]. HHERE emp_id=120;
cqlah:employee JUDATE employee info SET projects=projects=f(]Projects=f

CSE | Assistant Professor | Flyllis Douglas | ('Project2') 47000 | CSE | Intern | Conrad Menzie ('Project2') 47000 | CSE | Associate Professor | Edwin Mendoza | ('Project4') | 48000 | CSE | CS

projects

Vince Poole | {'Project1', 'Project2'} | 48000

salarv

nu11 | 48000

null | 47000 null | 48000

cqlsh:employee> SELECT * from employee info;

120 | 2020-03-07 18:30:00.000000+0000 |

123 | 2020-03-09 18:30:00.000000+0000 | 122 | 2020-03-07 18:30:00.000000+0000 |

109 | 2020-03-07 18:30:00.000000+0000 |

2020-03-07 18:30:00.000000+0000 2020-02-27 18:30:00.000000+0000 |

(6 rows)
cqlsh:employee> CREATE INDEX ON employee_info(salary);
cqlsh:employee> SELECT * FROM employee_info ORDER BY salary

cqlsh:employee> DESC INDEX employee.employee_info_salary_i CREATE INDEX employee info salary idx ON employee.employee info (salary); cqlsh:employee> DESC INDEX employee.employee info salary idx; CREATE INDEX employee_info_salary_idx ON employee.employee_info (salary); cglsh:employee> DROP INDEX IF EXISTS employee.employee info salary idx

| dept name | designation

emp_id | dateofjoining

emp id | dateoficining

120 | 2020-03-07 18:30:00.000000+0000 |

123 | 2020-03-07 18:30:00.000000+0000 | 122 | 2020-03-27 18:30:00.000000+0000 |

121 | 2020-03-07 18:30:00.000000+0000 |

InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot execute this query despite the performance unpredictability, use ALLOW FILTERING" cglain-employee > SELECT * FROM employee info WHEEE salary > 0, emp inf UN 8 ORDER PV salary ASC, SyntaxException: line 1:44 mismatched input ',' expecting EOF (... employee info WHEEE salary > 0, emp info WHEEE s

```
cqlsh:employee> exit
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ ./cqlsh
 Connected to Test Cluster at 127.0.0.1:9042
Connected to Test Cluster at 127.0.0.1:9042. [cqish 5.0.1] | Cassandra 3.11.5 | CQL spec 3.4.4 | Native protocol v4|
Use HELP for help.
cqish CREATE REYSPACE library with REPLICATION-['class':'SimpleStrategy', 'replication factor':1];
SyntaxEcoption: line 1:41 no visible alternative at input '[' (CREATE REYSPACE library with [REPLICATION]-[...)
cqish> CREATE REYSPACE library with REPLICATION*[class':'SimpleStrategy', 'replication factor':1];
   calsh> USE library:
cqlsh:library> CREATE TABLE library_info(
SyntaxException: line 2:0 no viable alternative at input ';' (CREATE TABLE library_info[[;]) cqlabi-library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library) CREATE TABLE library info (stud id in transfer TABLE library info (stud id in tra
 equantilibrary CREATE TABLE library info( stud_id int PRIMARY KEY, stud_name text, book_name text, book_id int, Dateofissue timestamp); eqlabilibrary ALTER TABLE library_info ADD counter_value counter; Configuration*Reception: Cannot add a counter column (counter_value) in a non counter column family
 cqlsh:library> DROP TABLE library_info
 cqlsh:library> DESCRIBE TABLES;
 <empty>
 cqish:library> CREATE TABLE library info( stud_id int, stud_name text, book name text, bookname text, book id int, Dateofissue timestamp, counter_value counter, FRIMARY KEY (stud_id));
InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot mix counter and non counter columns in the same table"
cqish:library CREATE TABLE library info( stud_id int FRIMARY KEY, stud_name text, book name text, bookname text, book ind int, Dateofissue timestamp, counter_value counter);
   InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot mix counter and non counter columns in the same table"
eqlabilibrary CEANT TABLE library info (stud id int PRIMBER NEX, counter value counter);

(quality CEANT TABLE library info (stud id int PRIMBER NEX, counter value counter);

(quality CEANT TABLE library info stud name text, book name text, book name into the properties of the prop
 SyntaxException: line 1:25 no viable alternative at input 'stud name' (ALTER TABLE [library info] stud name...)
 calsh:library DRDF TABLE library info; calsh:library DRDF TABLE library info; calsh:library DRDF TABLE library info; stud id, stud name, timestamp), book idbook name,);
Symbatkrospion: line 1:206 no viable alternative at input; "(..., dtd_id_stud_mask_imestamp), book_idbook_name[,]...)

cqlsh:library> CREATE TABLE library info(stud_id_int, stud_name text, book_id_obok_name[,]...)

cqlsh:library> CREATE TABLE library info(stud_id_int, stud_name text, book_id_obok_name text, book_id_int, attention to the stud_int, stud_name), book_id_obok_name[,]...)
   Syntaxxxeeption: lime files no viable alternative at input ', (...t. istud injust (stud injust), (injust), (injust),
cqlahi-library> CREATE TABLE library info(stud id int, stud name text, book na
SyntaxReception: line 1:170 no viable alternative at input ',' (... REY (stud_id,stud_name),book_id(,)...)

cqiah:library RERAET FARIa library infos(stud_id int, stud_name text, book name that later(list) about in the stud_name text, book name that later(list) about in the stud_name text, book name text, book id int, bated(list) at later(list) at la
   cqlsh:library> exit
bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ stop
 Command 'stop' not found, but there are 19 similar ones.
 bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ script
Script started, file is typescript bmsoekhmsoe-Frecision-T1700:-/cassandra/apache-cassandra-3.11.0/bin$ script stop Script started, file is stop
   bmsce@bmsce-Precision-T1700:~/cassandra/apache-cassandra-3.11.0/bin$ exit
   Script done, file is stop
                                                                 recision-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$ exit
```

{'Project1'} | 49000

121 | 2020-03-07 18:30:00.000000+0000 | 100 | 2020-02-27 18:30:00.000000+0000 |

109 | 2020-03-07 18:30:00.000000+0000 |

Script done, file is lab2.txt

ISE | Associate Professor | Edwin Mendoza | CSE | Frofessor | Kelsey Stephens |

```
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.10 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cglsh> CREATE KEYSPACE Library WITH REPLICATION={
  ... 'class': 'SimpleStrategy',
  ... 'replication factor':1};
calsh> DESCRIBE KEYSPACES
system_schema system_auth system library system_distributed system_traces
calsh> SELECT * FROM sytem.schema keyspaces ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Keyspace sytem does not exist"
cqlsh> SELECT * FROM system.schema keyspaces ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table schema keyspaces"
cqlsh> SELECT * FROM system schema.keyspaces ;
keyspace name | durable writes | replication
system auth |
                        True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication factor': '1'}
     system schema |
                              True |
                                                           {'class': 'org.apache.cassandra.locator.LocalStrategy'}
           _
library |
                              True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '1'}
True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '3'}
 system distributed |
                                                               {'class': 'org.apache.cassandra.locator.LocalStrategy'}
          system |
                            True |
     system_traces |
                              True | {'class': 'orq.apache.cassandra.locator.SimpleStrategy', 'replication factor': '2'}
cqlsh> USE Library;
cglsh:library> create table library info(
         ... studid int PRIMARY KEY,
          ... countval counter,
InvalidRequest: Error from server: code=2200 [Invalid query] message="Cannot mix counter and non counter columns in the same table"
cqlsh:library> create table library info(
          ... studid int PRIMARY KEY,
          ... countval counter);
cqlsh:library> DEscribe table library info
CREATE TABLE library.library_info (
   studid int PRIMARY KEY,
    countval counter
) WITH bloom filter fp chance = 0.01
   AND caching = { 'keys': 'ALL', 'rows_per_partition': 'NONE'}
    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.\overline{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:library> SELECT * FROM Library info
          ...;
studid | countval
-----
(0 rows)
SyntaxException: Only expressions of the form X = X + \langle value \rangle are supported.
InvalidRequest: Error from server: code=2200 [Invalid query] message="Invalid STRING constant (001) for "studid" of type int"
cqlsh:library> SELECT * FROM Library info;
studid | countval
-----
  111 |
(1 rows)
cqlsh:library> SELECT * FROM Library info;
studid | countval
-----
  111 | 2
(1 rows)
cqlsh:library> ALTER library info
          ... DROP countval
SyntaxException: line 1:6 no viable alternative at input 'library info' ([ALTER] library info...)
cqlsh:library> ALTER table library info
         ... DROP countval;
cqlsh:library> SELECT * FROM Library_info;
```

```
(O rows)
cqlsh:library> ALTER TABLE library info ADD studname text;
ConfigurationException: Cannot add a non counter column (studname) in a counter column family
cqlsh:library> DROP tablelibrary info;
SyntaxException: line 1:5 no viable alternative at input 'tablelibrary info' ([DROP] tablelibrary info...)
cglsh:library> DROP table library info;
cqlsh:library> DESCRIBE COLUMNFAMILIES;
<empty>
cglsh:library> create table library info(
         ... studid int PRIMARY KEY,
          ... studname text,
         ... bookname text,
         ... bookid int,
         ... dateofissue timestamp) ;
cqlsh:library> SELECT * FROM Library info;
 studid | bookid | bookname | dateofissue | studname
(0 rows)
cqlsh:library> BEGIN BATCH
         ... INSERT INTO
          ... library info(
         ... studid, studname, bookname , bookid, dateofissue)
         ... VALUES
          ... (1, 'Michael Storm', 'BDA Beginner', 10000, '2012-03-29')
issue) VALUES
         ... (2, 'Stephen Fox', 'Cassandra 3.1.11', 10001, '2012-03-30')
         ... APPLY BATCH;
cqlsh:library> SELECT * FROM Library info;
 studid | bookid | bookname
                            I dateofissue
                                                             l studname
_____
    1 | 10000 | BDA Beginner | 2012-03-29 00:00:00.000000+0000 | Michael Storm
     2 | 10001 | Cassandra 3.1.11 | 2012-03-30 00:00:00.000000+0000 | Stephen Fox
cqlsh:library> ALTER TABLE library info add counter int
cglsh:library> ;
SyntaxException: line 1:0 no viable alternative at input ';' ([;])
cqlsh:library> SELECT * FROM Library info;
 studid | bookid | bookname
                            | counter | dateofissue
1 | 10000 | BDA Beginner | null | 2012-03-29 00:00:00.00000+0000 | Michael Storm
2 | 10001 | Cassandra 3.1.11 | null | 2012-03-30 00:00:00.00000+0000 | Stephen Fox
(2 rows)
cqlsh:library>;
SyntaxException: line 1:0 no viable alternative at input ';' ([;])
cqlsh:library> UPDATE library info SET
         ... counter=2 WHERE studid=1
         ...;
cqlsh:library> UPDATE library info SET
        ... counter=2 WHERE studid=1
cqlsh:library> UPDATE library info SET
       ... counter=1 WHERE studid=2;
cqlsh:library> SELECT * FROM Library_info;
 studid | bookid | bookname | counter | dateofissue
                                                                      | studname
1 | 10000 | BDA Beginner | 2 | 2012-03-29 00:00:00.00000+0000 | Michael Storm
2 | 10001 | Cassandra 3.1.11 | 1 | 2012-03-30 00:00:00.00000+0000 | Stephen Fox
(2 rows)
cqlsh:library> SELECT bookname, counter FROM Library info where studid=1;
bookname | counter
_____
BDA Beginner | 2
(1 rows)
cqlsh:library> SELECT studid,bookname, counter FROM Library info where studid=1
        ...;
studid | bookname | counter
  1 | BDA Beginner | 2
cqlsh:library> COPY library_info(studid,studname,bookname ,bookid,dateofissue)
       ... TO '/content/libinfo.csv' WITH HEADER = TRUE ;
Using 1 child processes
```

studid

```
Starting copy of library.library_info with columns [studid, studname, bookname, bookid, dateofissue].
Processed: 2 rows; Rate: 3 rows/s; Avg. rate: 3 rows/s
2 rows exported to 1 files in 0.689 seconds.
cqlsh:library> TRUNCATE library info ;
cqlsh:library> SELECT * FROM library info;
studid | bookid | bookname | counter | dateofissue | studname
_____
(0 rows)
cqlsh:library> COPY library info(studid, studname, bookname , bookid, dateofissue)
         ... FROM '/content/libinfo.csv' WITH HEADER = TRUE ;
Invalid syntax at line 2, char 5
 FROM ('/content/libinfo.csv' WITH HEADER = TRUE ;
cqlsh:library> FROM '/content/libinfo.csv' WITH HEADER = TRUE ;
SyntaxException: line 1:0 no viable alternative at input 'FROM' ([FROM]...)
cqlsh:library> COPY library_info(studid,studname,bookname ,bookid,dateofissue)
          ... FROM '/content/libinfo.csv' WITH HEADER = TRUE ;
Using 1 child processes
Starting copy of library_library_info with columns [studid, studname, bookname, bookid, dateofissue].
Processed: 2 rows; Rate:
                             4 rows/s; Avg. rate: 6 rows/s
2 rows imported from 1 files in 0.356 seconds (0 skipped).
cqlsh:library> SELECT * FROM library_info;
studid | bookid | bookname
                                 | counter | dateofissue
                                                                            | studname
     1 | 10000 | BDA Beginner | null | 2012-03-29 00:00:00.00000+0000 | Michael Storm 2 | 10001 | Cassandra 3.1.11 | null | 2012-03-30 00:00:00.00000+0000 | Stephen Fox
```

(2 rows)

cqlsh:library> exit

```
[cqlsh 5.0.1 | Cassandra 3.11.10 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
ation factor':1};
cglsh> describe keyspaces;
system schema system auth system system distributed wmetro system traces
cqlsh> select * from system schema.keyspaces;
 keyspace name
                | durable writes | replication
______
                             True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication factor': '1'}
       system auth |
                                                            {'class': 'org.apache.cassandra.locator.LocalStrategy'
     system schema |
                             True I
                             True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '3'
 system distributed |
            system |
                             True |
                                                             {'class': 'org.apache.cassandra.locator.LocalStrategy'
                             True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication factor': '1'
           wmetro |
                            True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication factor': '2'}
     system traces |
(6 rows)
calsh> use wmetro
ile bigint, current position text, skill set<text>);
cqlsh:wmetro> select * from drivers;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table drivers"
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
(0 rows)
cqlsh:wmetro> begin batch
ill) values('Swen','123abc',9000000001,'Wellington',{'Passenger'})
ill) values('Fred','234bcd',900000002,'Upper Hutt',{'Passenger'})
ill) values('Jane','345cde',9000000003,'Lower Hutt',{'Goods'})
        ... apply batch;
cqlsh:wmetro> select * from driver;
 driver name | current position | mobile | password | skill
                   Upper Hutt | 9000000002 | 234bcd | {'Passenger'}
       Fred I
       Swen |
                   Wellington | 9000000001 | 123abc | {'Passenger'}
       Jane I
                  Lower Hutt | 9000000003 | 345cde | {'Goods'}
(3 rows)
text);
cglsh:wmetro> begin batch
tenance', 'Gulliver');
Hutt', 'Gulliver');
r Hutt', 'Kiwi Rail');
ington', 'Kiwi Rail');
        ... apply batch;
cglsh:wmetro> select * from vehicles;
vehicle_id | status | type
    WR1236 | Upper Hutt | Kiwi Rail
    WR1234 | Maintenance | Gulliver
    WR1235 | Lowe Hutt | Gulliver
    WR1237 | Wellington | Kiwi Rail
(4 rows)
ine name, station name));
cglsh:wmetro> begin batch
,longitude,time,distance) values('LINE1',2,'Wellington',-40.28,174.77,0605,0.0)
,longitude,time,distance) values('LINE2',2,'Upper Hutt',-41.12,175.07,1550,0.0)
        ... apply batch;
cqlsh:wmetro> select * from time_table;
 line name | station name | distance | latitude | longitude | service num | time
LINE2 | Upper Hutt | 0 | -41.12 | 175.07 | 2 | 1550
    LINE2 | Wellington | 34.3 | -40.28 | 174.77 |
                                                              2 | 1130
    LINE1 | Upper Hutt | 34.3 | -41.12 | 175.07 |
LINE1 | Wellington | 0 | -40.28 | 174.77 |
                                                             2 | 1025
                                                                 2 | 605
(4 rows)
nce counter);
ere vehicle id=1234 ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Invalid INTEGER constant (1234) for "vehicle id" of type text"
ere vehicle id="WR1234";
SyntaxException: line 1:90 no viable alternative at input ';' (...total distance + 3000 where vehicle id=["WR123]4";)
ere vehicle id='WR1234';
ere vehicle id='WR1235';
ere vehicle id='WR1236';
ere vehicle id='WR1237';
```

Connected to Test Cluster at 127.0.0.1:9042.

```
cqlsh:wmetro> select * from VEHICLE USAGE;
vehicle id I total distance
    WR1236 L
    WR1234 I
    WR1235 |
                   5000
    WR1237 |
                   5300
(4 rows)
itude double, longitude double, speed double);
cqlsh:wmetro> begin batch
es(14,'2020-03-10',-42.30,171.50,76)
es(14,'2020-03-10 10:07:40+1300',-42.50,171.90,75)
es(14,'2020-03-10 10:30:25+1300',-44.50,160.60,75)
      ... apply batch ;
cqlsh:wmetro> select * from data point;
                          | day | latitude | longitude | speed
2020-03-09 21:30:25.000000+0000 | 14 | -44.5 | 160.6 | 75
2020-03-09 21:07:40.000000+0000 | 14 | -42.5 |
                                            171.9 | 75
2020-03-10 00:00:00.000000+0000 | 14 | -42.3 |
                                             171.5
ill) values('William','678bcf',9000000004,'Wellington',{'Goods','Passenger'})
cqlsh:wmetro> select * from driver;
driver_name | current_position | mobile | password | skill
_____
      Fred |
                 Upper Hutt | 9000000002 | 234bcd | {'Passenger'}
      Swen |
                 Wellington | 9000000001 | 123abc |
                                                       { 'Passenger'}
    William |
                Wellington | 9000000004 | 678bcf | {'Goods', 'Passenger'}
      Jane |
                Lower Hutt | 9000000003 | 345cde |
                                                          { 'Goods ' }
(4 rows)
cqlsh:wmetro> create index on driver(password);
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
______
                 Upper Hutt | 9000000002 | 234bcd |
      Fred |
                Wellington | 9000000001 | 123abc |
                                                       { 'Passenger'}
      Swen I
    William |
                Wellington | 9000000004 | 678bcf | {'Goods', 'Passenger'}
     Jane |
                Lower Hutt | 9000000003 | 345cde |
                                                          { 'Goods ' }
(4 rows)
cqlsh:wmetro> update driver set password='789gfh' where driver name='William';
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
      Fred |
                Upper Hutt | 9000000002 | 234bcd |
                                                 {'Passenger'}
      Swen |
                 Wellington | 9000000001 | 123abc |
                                                       { 'Passenger'}
                Wellington | 9000000004 | 789gfh | {'Goods', 'Passenger'}
    William |
      Jane |
                Lower Hutt | 9000000003 | 345cde |
                                                          { 'Goods '}
(4 rows)
='William';
calsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
-----
                Upper Hutt | 9000000002 | 234bcd | {'Passenger'}
      Fred I
      Swen
                Wellington | 9000000001 | 123abc |
                                                       { 'Passenger'}
                Maintenance | 9000000004 | 789qfh | {'Goods', 'Passenger'}
    William |
                Lower Hutt | 9000000003 | 345cde |
      Jane I
                                                          { 'Goods ' }
cqlsh:wmetro> update driver set skill={'Passenger'} where driver name='Jane';
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
Upper Hutt | 9000000002 | 234bcd |
      Fred |
                Wellington | 9000000001 | 123abc |
      Swen |
                                                       { 'Passenger'}
    William I
                Maintenance | 9000000004 | 789gfh | {'Goods', 'Passenger'}
      Jane I
                Lower Hutt | 9000000003 | 345cde |
                                                       { 'Passenger'}
(4 rows)
Tane!:
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
------
                Upper Hutt | 9000000002 | 234bcd |
                Wellington | 9000000001 | 123abc |
      Swen I
                                                       { 'Passenger'}
                Maintenance | 9000000004 | 789gfh | {'Goods', 'Passenger'
    William |
      Jane | Lower Hutt | 9000000003 | 345cde | {'Goods', 'Passenger'}
```

```
(4 rows)
password='789gfh';
[applied]
     True
cglsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
       _____
                  Upper Hutt | 9000000002 | 234bcd |
                                                          { 'Passenger'}
                 Wellington | 9000000001 | 123abc |
                                                          ['Passenger']
      Swan
                 Maintenance | 9000000004 | 678bcf | {'Goods', 'Passenger'
    William |
      Jane | Lower Hutt | 9000000003 | 345cde | {'Goods', 'Passenger'}
(4 rows)
cqlsh:wmetro> alter table driver add workdays int ;
cqlsh:wmetro> update driver set workdays=22 where driver name='William'
       ... update driver set workdays=22 where driver name='Fred';
SyntaxException: line 2:0 mismatched input 'update' expecting EOF (...workdays=22 where driver name='William'[update]...)
cglsh:wmetro> update driver set workdays=22 where driver name='Fred';
cqlsh:wmetro> update driver set workdays=22 where driver name='William';
cqlsh:wmetro> update driver set workdays=21 where driver name='Jane';
cqlsh:wmetro> update driver set workdays=22 where driver name='Swen';
cqlsh:wmetro> select * from driver;
driver name | current position | mobile | password | skill
Upper Hutt | 9000000002 | 234bcd | {'Passenger'} |
      Fred I
      Swen
                  Wellington | 9000000001 | 123abc |
                                                          {'Passenger'} |
                                                                              22
    William |
                 Maintenance | 9000000004 | 678bcf | {'Goods', 'Passenger'} |
                 Lower Hutt | 9000000003 | 345cde | {'Goods', 'Passenger'} |
      Jane I
ington', 'Diesel');
cqlsh:wmetro> select * from vehicles;
vehicle id | status
                     | type
-----
    WR1236 | Upper Hutt | Kiwi Rail
    WR1234 | Maintenance | Gulliver
    WR1238 | Wellington | Diesel
    WR1235 | Lowe Hutt | Gulliver
    WR1237 | Wellington | Kiwi Rail
(5 rows)
cqlsh:wmetro> select * from vehicles;
vehicle id | status | type
_____
    WR1236 | Upper Hutt | Kiwi Rail
    WR1234 | Upper Hutt | Gulliver
    WR1238 | Wellington | Diesel
    WR1235 | Lowe Hutt | Gulliver
    WR1237 | Wellington | Kiwi Rail
(5 rows)
cqlsh:wmetro> alter table vehicle add daily distance ;
SyntaxException: line 1:39 no viable alternative at input ';' (alter table vehicle add daily distance [;])
cqlsh:wmetro> alter table vehicles add daily distance;
SyntaxException: line 1:39 no viable alternative at input ';' (alter table vehicles add daily distance[;])
cqlsh:wmetro> alter table vehicles add daily_distance int;
cqlsh:wmetro> update vehicles set daily distance=180 where vehicle id="WR1236";
SyntaxException: line 1:64 no viable alternative at input ';' (...set daily distance=180 where vehicle id=["WR123]6";)
calsh:wmetro> select* from veicles;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table veicles"
cqlsh:wmetro> select * from vehicles;
vehicle id | daily_distance | status | type
_____
    WR1236 |
                    null | Upper Hutt | Kiwi Rail
    WR1234 I
                    null | Upper Hutt | Gulliver
    WR1238 I
                    null | Wellington | Diesel
    WR1235 |
                    null | Lowe Hutt | Gulliver
    WR1237 I
                    null | Wellington | Kiwi Rail
(5 rows)
cqlsh:wmetro> select * from vehicles;
vehicle_id | daily_distance | status | type
-----
    WR1236 |
                     180 | Upper Hutt | Kiwi Rail
```

```
200 | Upper Hutt |
                                      Gulliver
    WR1238
                      300 | Wellington |
                                      Diesel
    WR1235 |
                      50 | Lowe Hutt | Gulliver
                     300 | Wellington | Kiwi Rail
    WR1237 I
(5 rows)
HICLE ID='WR1235';
cqlsh:wmetro> SELECT * FROM VEHICLE USAGE;
vehicle id | total distance
-----
    WR1236 |
    WR1234 L
    WR1235 I
                    5050
    WR1237 |
                    5300
(4 rows)
cqlsh:wmetro> begin batch
,longitude,time,distance) values('LINE3',2,'Melling',-43.20,171.60,1540,330)
,longitude,time,distance) values('LINE3',2,'Waterloo',-53.50,165.70,0940,40,0)
,longitude,time,distance) values('LINE4',2,'Melling',-43.20,171.60,1540,0)
        ... apply batch ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unmatched column names/values"
,longitude,time,distance) values('LINE3',2,'Melling',-43.20,171.60,1540,330.0)
        . . . :
cqlsh:wmetro> begin batch
,longitude,time,distance) values('LINE4',2,'Melling',-43.20,171.60,1540,0.0)
        ... apply batch ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unmatched column names/values"
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unmatched column names/values"
,longitude,time,distance) values('LINE3',2,'Waterloo',-53.50,165.70,0940,0.0);
,longitude,time,distance) values('LINE4',2,'Melling',-43.20,171.60,1540,0.0)
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unmatched column names/values"
,longitude,time,distance) values('LINE4',2,'Waterloo',-53.50,165.70,0940,330.0)
cqlsh:wmetro> SELECT * FROM TIME TABLE;
line name | station name | distance | latitude | longitude | service num | time
_____
                           0 | -41.12 |
    LINE2 | Upper Hutt |
    LINE2 |
            Wellington |
                           34.3 | -40.28 |
                                              174.77 i
                                                              2 | 1130
    LINE3 L
             Melling |
                           330 | -43.2 |
                                             171.6 |
                                                              2 | 1540
    LINE3 |
             Waterloo |
                            0 |
                                    -53.5 |
                                              165.7 |
                                                              2 | 940
              Melling |
                            0 | -43.2 |
                                             171.6
                                                              2 | 1540
    LINE4 |
    T.TNE4 I
             Waterloo |
                           330 | -53.5 |
                                                              2 | 940
                                              165.7 I
    TITNE1 I
            Upper Hutt |
                           34.3 | -41.12 |
                                              175.07 |
                                                              2 | 1025
    LINE1 | Wellington |
                           0 | -40.28 |
                                             174.77
                                                              2 | 605
(8 rows)
' and station name='Waterloo';
SyntaxException: line 1:7 no viable alternative at input 'table' (update [table]...)
station name='Waterloo';
station name='Melling';
cglsh:wmetro> begin batch
station name='Waterloo'
station_name='Melling'
        ... apply batch ;
es(15,'2020-03-04',-52.10,168.90,67);
cqlsh:wmetro> select * from time_table;
line name | station name | distance | latitude | longitude | service num | time
-----
    LINE2 | Upper Hutt |
                           0 | -41.12 | 175.07 |
                                                              2 | 1550
    LINE2 | Wellington |
                           34.3 | -40.28 |
                                             174.77 |
                                                              2 | 1130
                                             171.6
    LINE3 I
                           330 | -43.2 |
             Melling L
                                                              1 I 1540
                            0 |
    TITNE3 I
             Waterloo |
                                   -53.5 I
                                              165.7 |
                                                              1 | 940
             Melling |
    LINE4 |
                            0 | -43.2 |
                                             171.6 |
                                                              1 | 1540
    LINE4 |
             Waterloo |
                            330 | -53.5 |
                                              165.7
                                                              1 | 940
                                                            2 | 1025
                           34.3 | -41.12 |
    LINE1 | Upper Hutt |
                                              175.07 I
    LINE1 | Wellington |
                            0 | -40.28 |
                                             174.77 |
                                                              2 | 605
cqlsh:wmetro> SELECT * FROM DATA POINT;
                            | day | latitude | longitude | speed
sequence
2020-03-04 00:00:00.000000+0000 | 15 |
2020-03-09 21:30:25.000000+0000 | 14 |
                                     -44.5
                                                160.6 |
                                                          75
2020-03-09 21:07:40.000000+0000 | 14 | -42.5 |
                                                171.9 I
                                                         7.5
2020-03-10 00:00:00.000000+0000 | 14 |
                                     -42.3 |
                                                171.5 |
                                                          76
(4 rows)
cqlsh:wmetro> exit
```

WR1234 I

alter table vehicles add daily distance int;

update vehicles set daily distance = 200 where vehicle id='WR1234';

```
create keyspace wmetro with replication={'class':'SimpleStrategy','replication factor':1};
describe system schema keysnaces:
use wmetro;
create table driver (driver name text primary key, password text, mobile bigint, current position text, skill set<text>);
insert into driver(driver name, password, mobile, current position, skill) values('Swen', '123abc', 900000001, 'Wellington', {'Passenger'})
insert into driver(driver_name,password,mobile,current_position,skill) values('Fred','234bcd',900000002,'Upper Hutt',{'Passenger'})
insert into driver(driver name, password, mobile, current position, skill) values('Jane', '345cde', 900000003, 'Lower Hutt', {'Goods'})
apply batch;
select * from driver:
create table vehicles (vehicle id text primary key, status text, type text);
begin batch
insert into vehicles (vehicle id, status, type) values ('WR1234', 'Maintenance', 'Gulliver');
insert into vehicles (vehicle id, status, type) values ('WR1235', 'Lowe Hutt', 'Gulliver');
insert into vehicles (vehicle id, status, type) values ('WR1236', 'Upper Hutt', 'Kiwi Rail');
insert into vehicles (vehicle id, status, type) values ('WR1237', 'Wellington', 'Kiwi Rail');
apply batch;
select * from vehicles;
create table time table (line name text, service num int, station name text, latitude double, longitude double, time int, distance double, primary key (line name, station name));
begin batch
insert into
time table(line name, service num, station name, latitude, longitude, time, distance) values('LINE1', 2, 'Wellington', -40.28, 174.77, 0605, 0.0)
insert into time_table(line_name,service_num,station_name,latitude,longitude,time,distance) values('LINE1',2,'Upper Hutt',-41.12,175.07,1025,34.3)
insert into time table(line name, service num, station name, latitude, longitude, time, distance) values('LINE2', 2, 'Wellington', -40.28, 174.77, 1130, 34.3)
insert into time table(line name, service num, station name, latitude, longitude, time, distance) values('LINE2', 2, 'Upper Hutt', -41.12, 175.07, 1550, 0.0)
apply batch;
select * from time table;
create table vehicle usage (vehicle id text primary key, total distance counter);
update vehicle usage set total distance = total distance + 3000 where vehicle id='WR1234';
update vehicle usage set total distance = total distance + 5000 where vehicle id= WR1235;
update vehicle_usage set total_distance = total_distance + 3500 where vehicle_id='WR1236';
update vehicle usage set total distance = total distance + 5300 where vehicle id='WR1237';
select * from VEHICLE USAGE;
CREATE table data point(day int, sequence timestamp primary key, latitude double, longitude double, speed double);
insert into data point (day, sequence, latitude, longitude, speed) values (14, '2020-03-10', -42.30, 171.50, 76)
insert into data point (day, sequence, latitude, longitude, speed) values (14, '2020-03-10 10:07:40+1300', -42.50, 171.90, 75)
insert into data point (day, sequence, latitude, longitude, speed) values (14, '2020-03-10 10:30:25+1300', -44.50, 160.60, 75)
apply batch;
select * from data point;
insert into driver(driver name, password, mobile, current position, skill) values('William','678bcf', 9000000004, 'Wellington', {'Goods', 'Passenger'})
select * from driver;
update driver set password='678bcf' where driver name='William' if password='789qfh';
select * from driver;
update driver set current position='Maintenance' where driver name='William';
select * from driver:
update driver set skill={'Passenger', 'Goods'} where driver name='Jane';
select * from driver:
alter table driver add workdays int :
update driver set workdays=22 where driver name='William';
update driver set workdays=22 where driver name='Fred';
update driver set workdays=21 where driver name='Jane';
update driver set workdays=22 where driver name='Swen';
insert into vehicles (vehicle id, status, type) values ('WR1238', 'Wellington', 'Diesel');
select * from vehicles;
update vehicles set status='Upper Hutt' where vehicle_id='WR1234';
select * from vehicles;
```

```
update vehicles set daily_distance = 50 where vehicle id='WR1235'; update vehicles set daily_distance = 300 where vehicle_id='WR1238';
select * from vehicles;
UPDATE VEHICLE USAGE SET TOTAL DISTANCE=TOTAL DISTANCE+50 WHERE VEHICLE ID='WR1235';
SELECT * FROM VEHICLE USAGE;
begin batch
insert into time table(line_name, service_num, station_name, latitude, longitude, time, distance) values('LINE3', 2, 'Melling', -43.20, 171.60, 1540, 330.0) insert into time_table(line_name, service_num, station_name, latitude, longitude, time, distance) values('LINE3', 2, 'Waterloo', -53.50, 165.70, 0940, 0.0)
insert into time table (line name, service num, station name, latitude, longitude, time, distance) values ('LINE4', 2, 'Melling', -43.20, 171.60, 1540, 0.0)
insert into time_table(line_name,service_num,station_name,latitude,longitude,time,distance) values('LINE4',2,'Waterloo',-53.50,165.70,0940,330.0)
apply batch ;
SELECT * FROM TIME TABLE;
update time table set service num = 1 where line name='LINE4' and station name='Waterloo';
update time table set service num = 1 where line name='LINE4' and station name='Melling';
update time table set service num = 1 where line name='LINE3' and station name='Waterloo';
update time_table set service_num = 1 where line_name='LINE3' and station_name='Melling';
select * from time table;
insert into data point(day, sequence, latitude, longitude, speed) values(15, '2020-03-04', -52.10, 168.90, 67);
SELECT * FROM DATA POINT;
EXIT
```

update vehicles set daily_distance = 180 where vehicle_id='WR1236'; update vehicles set daily_distance = 300 where vehicle_id='WR1237';

```
1. Create a new collection
use student
2. Insert a value
db.student.insert({
    "Name" : "abc",
    "RollNo:" : 1,
    "Age" : 21,
    "ContactNo" : "9000000001".
    "EmailId": "abc@example.com"
3. Insert multiple values at once
var Mystudents = [
        "Name" : "def",
        "RollNo:" : 2,
        "Age" : 21,
"ContactNo" : "9000000002",
        "EmailId": "def@example.com"
        "Name" : "ghi",
        "RollNo:" : 3,
        "Age" : 22,
        "ContactNo" : "9000000003",
        "EmailId": "ghi@example.com"
        "Name" : "jkl",
"RollNo:" : 4,
        "Age" : 21,
"ContactNo" : "9000000004",
        "EmailId": "jkl@example.com"
        "Name" : "mno",
        "RollNo:" : 5,
        "Age" : 22,
        "ContactNo" : "9000000005",
        "EmailId": "mno@example.com"
db.student.insert(Mystudents);
4. Print all current values
db.getCollection('student').find({}).forEach(printjson)
        "_id" : ObjectId("60aaca0014c26c4c599fc88e"),
        "Name" : "abc",
        "RollNo:" : 1,
        "Age" : 21,
        "ContactNo" : "90000000001",
        "EmailId" : "abc@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc893"),
        "Name" : "def",
        "RollNo:" : 3,
        "Age" : 21,
        "ContactNo" : "9000000002",
        "EmailId" : "def@example.com"
        "_id" : ObjectId("60aacb7214c26c4c599fc894"),
        "Name" : "ghi",
"RollNo:" : 3,
         "Age" : 22,
        "ContactNo" : "9000000003",
        "EmailId" : "ghi@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc895"),
        "Name": "jkl",
"RollNo:": 4,
        "Age" : 21,
        "ContactNo" : "9000000004",
        "EmailId" : "jkl@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc896"),
        "Name" : "mno",
        "RollNo:" : 5,
```

```
"Age" : 22,
        "ContactNo" : "9000000005",
        "EmailId" : "mno@example.com"
5. Update RollNo of a student
db.student.update({"Name": "abc"}, {$set: { "RollNo": 10}})
db.getCollection('student').find({"RollNo:":10}).forEach(printjson)
        " id" : ObjectId("60aaca0014c26c4c599fc88e"),
        "Name" : "abc",
        "RollNo:" : 10,
        "Age" : 21,
        "ContactNo" : "90000000001".
        "EmailId" : "abc@example.com"
6. Update Name of a student
db.student.update({"Name" : "abc"},{$set: { "Name" : "FEM"}})
db.getCollection('student').find({"Name" : "FEM"}).forEach(printjson)
        " id" : ObjectId("60aaca0014c26c4c599fc88e"),
        "Name" : "FEM",
        "RollNo:" : 1.
        "Age" : 21,
        "ContactNo" : "90000000001",
        "EmailId" : "abc@example.com"
7. Export to json
mongoexport --db testdb --collection student --out C:\Users\Desktop\student.json
{"id":{"$oid":"60aaca0014c26c4c599fc88e"},"Name":"FEM","age":21.0,"Contact":"9000000001","email":"abc@example.com","RollNo":10.0}
{"_id":{"$oid":"60aacb7214c26c4c599fc893"},"Name":"def","RollNo:":2.0,"Age":21.0,"ContactNo":"900000002","EmailId":"def@lab.com"}
{"id":{"$oid":"60aacb7214c26c4c599fc894"},"Name":"qhi","RollNo:":3.0,"Aqe":22.0,"ContactNo":"9000000003","EmailId":"ghi@lab.com"}
{" id":{"$oid":"60aacb7214c26c4c599fc895"}, "Name":"jk1", "RollNo:":4.0, "Age":21.0, "ContactNo":"9000000004", "EmailId":"jk1@lab.com"}
{" id":{"$oid":"60aacb7214c26c4c599fc896"},"Name":"mno","RollNo:":5.0,"Age":22.0,"ContactNo":"9000000005","EmailId":"mno@lab.com"}
8. Drop student
db.getCollection('student').drop()
9. Import from exported file
mongoimport --db stud --collection stud C:\Users\Desktop\student.json
10. Print values
db.getCollection('stud').find({}).forEach(printjson)
        " id" : ObjectId("60aaca0014c26c4c599fc88e"),
        "Name" : "abc",
        "RollNo:" : 1,
        "Age" : 21,
        "ContactNo" : "90000000001",
        "EmailId" : "abc@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc893"),
        "Name" : "def",
        "RollNo:" : 3,
        "Age" : 21,
        "ContactNo" : "9000000002",
        "EmailId" : "def@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc894"),
        "Name" : "ghi",
        "RollNo:" : 3,
        "Age" : 22,
        "ContactNo" : "9000000003",
        "EmailId" : "ghi@example.com"
        " id" : ObjectId("60aacb7214c26c4c599fc895"),
        "Name" : "jkl",
        "RollNo:" : 4,
        "Age" : 21,
```

```
"ContactNo": "9000000004",

"EmailId": "jkl@example.com"

"_id": ObjectId("60aacb7214c26c4c599fc896"),
"Name": "mno",
"RollNo:": 5,
"Age": 22,
"ContactNo": "9000000005",
"EmailId": "mno@example.com"
```