```
CREATE KEYSPACE "employee" WITH REPLICATION = { 'class':'SimpleStrategy',
'replication_factor':1};
AlreadyExists: Keyspace 'employee' already exists
cqlsh> CREATE KEYSPACE "employes" WITH REPLICATION = { 'class':'SimpleStrategy',
'replication_factor':1};
cqlsh> DESCRIBE KEYSPACES

library2 students      system   trail    system_distributed employee1
studet   system_schema library  election employee          company
employes system_auth    vehicles student  system_traces

cqlsh> use employes
   ...
   ...
cqlsh> USE "employes"
   ... ;
cqlsh:employes> CREATE TABLE employee_info(
        ... emp_id text,
        ... emp_name text,
        ... date_of_joining timestamp,
        ... salery double,
        ... dept_name text
        ... );
InvalidRequest: Error from server: code=2200 [Invalid query] message="No PRIMARY KEY
specifed (exactly one required)"
cqlsh:employes> CREATE TABLE employee_info( emp_id text, emp_name text, date_of_joining
timestamp, salery double, dept_name text,Primary Key(emp_name,salery) );cqlsh:employes>
DESCRIBE TABLE employee_info

CREATE TABLE employes.employee_info (
   emp_name text,
   salery double,
   date_of_joining timestamp,
   dept_name text,
   emp_id text,
   PRIMARY KEY (emp_name, salery)
) WITH CLUSTERING ORDER BY (salery ASC)
   AND bloom_filter_fp_chance = 0.01
   AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
   AND comment = ''
   AND compaction = {'class':
'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32',
'min_threshold': '4'}
```

```
    AND compression = {'chunk_length_in_kb': '64', 'class':
'org.apache.cassandra.io.compress.LZ4Compressor'}
    AND crc_check_chance = 1.0
    AND dclocal_read_repair_chance = 0.1
    AND default_time_to_live = 0
    AND gc_grace_seconds = 864000
    AND max_index_interval = 2048
    AND memtable_flush_period_in_ms = 0
    AND min_index_interval = 128
    AND read_repair_chance = 0.0
    AND speculative_retry = '99PERCENTILE';

INSERT INTO employee_info (emp_id , emp_name ,salery , date_of_joining , dept_name)
VALUES ("1BM20CS223" , "vara" , 98485, "2020-07-19" , "CSE")
          ... ;
SyntaxException: line 1:105 no viable alternative at input ',' (...date_of_joining , dept_name)
VALUES (["1BM20CS22]3" ,...)
cqlsh:employes> INSERT INTO employee_info (emp_id , emp_name ,salery , date_of_joining ,
dept_name) VALUES ("1BM20CS223" , "vara" , 98485, 2020-07-19 , "CSE") ;SyntaxException:
line 1:105 no viable alternative at input ',' (...date_of_joining , dept_name) VALUES
(["1BM20CS22]3" ,...)
cqlsh:employes> INSERT INTO employee_info (emp_id , emp_name
,salery,date_of_joining,dept_name,emp_id) VALUES ("1BM20CS223" , "vara" , 98485,
2020-07-19 , "CSE") ;
cqlsh:employes> INSERT INTO employee_info (emp_id , emp_name
,date_of_joining,salery,dept_name,emp_id) VALUES ("1BM20CS223" ,
"vara",2020-07-18,5676.67 , "CSE") ;
SyntaxException: line 1:108 no viable alternative at input ',' (...salery,dept_name,emp_id)
VALUES (["1BM20CS22]3" ,...)
cqlsh:employes> SELECT * FROM student_info
          ... ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table
student_info"
cqlsh:employes> SELECT * FROM employee_info
          ... ;


 emp_name | salery | date_of_joining | dept_name | emp_id
----------+--------+-----------------+-----------+--------

(0 rows)
cqlsh:employes> INSERT INTO employee_info
(emp_name,salery,date_of_joining,dept_name,emp_id) VALUES
("vara",567.67,2020-07-18,"CSE","BM223");
```

```
SyntaxException: line 1:91 no viable alternative at input ','
(...date_of_joining,dept_name,emp_id) VALUES (["var]a",...)
cqlsh:employes> INSERT INTO employee_info
(emp_name,salery,date_of_joining,dept_name,emp_id) VALUES
('vara',567.67,'2020-07-18','CSE','BM223');
cqlsh:employes> SELECT * FROM employee_info ;

 emp_name | salery | date_of_joining             | dept_name | emp_id
----------+--------+-----------------------------+-----------+--------
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |     CSE |  BM223

(1 rows)
cqlsh:employes> INSERT INTO employee_info
(emp_name,salery,date_of_joining,dept_name,emp_id) VALUES
('gyanash',990,'2022-02-14','ECE','BM220');
cqlsh:employes> SELECT * FROM employee_info ;

 emp_name | salery | date_of_joining             | dept_name | emp_id
----------+--------+-----------------------------+-----------+--------
  gyanash |    990 | 2022-02-13 18:30:00.000000+0000 |     ECE |  BM220
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |     CSE |  BM223

(2 rows)
cqlsh:employes> INSERT INTO employee_info
(emp_name,salery,date_of_joining,dept_name,emp_id) VALUES
('omar',9900,'2021-04-10','CSE','BM180');
cqlsh:employes> INSERT INTO employee_info
(emp_name,salery,date_of_joining,dept_name,emp_id) VALUES
('sreenu',45.45,'2021-04-10','CSE','BM193');
cqlsh:employes>
cqlsh:employes> SELECT * FROM employee_info ;

 emp_name | salery | date_of_joining             | dept_name | emp_id
----------+--------+-----------------------------+-----------+--------
  gyanash |    990 | 2022-02-13 18:30:00.000000+0000 |     ECE |  BM220
     omar |   9900 | 2021-04-09 18:30:00.000000+0000 |     CSE |  BM180
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |     CSE |  BM223
   sreenu |  45.45 | 2021-04-09 18:30:00.000000+0000 |     CSE |  BM193

(4 rows)

CREATE INDEX 0N employee_info(emp_id);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> CREATE INDEX 0N employee_info(emp_id);
```

```
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> DESCRIBE TABLE employee_info

CREATE TABLE employes.employee_info (
    emp_name text,
    salery double,
    date_of_joining timestamp,
    dept_name text,
    emp_id text,
    PRIMARY KEY (emp_name, salery)
) WITH CLUSTERING ORDER BY (salery ASC)
    AND bloom_filter_fp_chance = 0.01
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
    AND comment = ''
    AND compaction = {'class':
'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32',
'min_threshold': '4'}
    AND compression = {'chunk_length_in_kb': '64', 'class':
'org.apache.cassandra.io.compress.LZ4Compressor'}
    AND crc_check_chance = 1.0
    AND dclocal_read_repair_chance = 0.1
    AND default_time_to_live = 0
    AND gc_grace_seconds = 864000
    AND max_index_interval = 2048
    AND memtable_flush_period_in_ms = 0
    AND min_index_interval = 128
    AND read_repair_chance = 0.0
    AND speculative_retry = '99PERCENTILE';

cqlsh:employes> CREATE INDEX 0N employee_info(emp_id);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> SELECT * FROM employee_info ;

 emp_name | salery | date_of_joining               | dept_name | emp_id
----------+--------+-------------------------------+-----------+--------
  gyanash |    990 | 2022-02-13 18:30:00.000000+0000 |      ECE |  BM220
     omar |   9900 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM180
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |      CSE |  BM223
   sreenu |  45.45 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM193

(4 rows)
cqlsh:employes> CREATE INDEX 0N employee_info(emp_id);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes>
```

```
cqlsh:employes> CREATE INDEX 0N employee_info (emp_id);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> CREATE INDEX 0N employee_info(dept_name);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> CREATE INDEX 0N employee_info(date_of_joining);
SyntaxException: line 1:15 mismatched character ' ' expecting set null
cqlsh:employes> ALTER TABLE employee_info ADD project_names<text>
          ... ;
SyntaxException: line 1:43 no viable alternative at input '<' (ALTER TABLE employee_info ADD
project_names[<]...)
cqlsh:employes> ALTER TABLE employee_info ADD project_names list<text> ;
cqlsh:employes> SELECT * FROM employee_info ;

 emp_name | salery | date_of_joining              | dept_name | emp_id | project_names
----------+--------+------------------------------+-----------+--------+---------------
  gyanash |    990 | 2022-02-13 18:30:00.000000+0000 |      ECE |  BM220 |         null
     omar |   9900 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM180 |         null
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |      CSE |  BM223 |         null
   sreenu |  45.45 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM193 |         null

(4 rows)
cqlsh:employes> UPDATE TABLE employee_info SET project_name = {"shop1","BMS
ALumini"} WHERE emp_name = "vara"
          ... ;
SyntaxException: line 1:7 no viable alternative at input 'TABLE' (UPDATE [TABLE]...)
cqlsh:employes> UPDATE  employee_info SET project_name = {"shop1","BMS ALumini"}
WHERE emp_name = "vara" ;
SyntaxException: line 1:49 no viable alternative at input ',' (UPDATE  employee_info SET
project_name = [{]"shop1",...)
cqlsh:employes> UPDATE  employee_info SET project_name = ["shop1","BMS ALumini"]
WHERE emp_name = "vara" ;
SyntaxException: line 1:49 no viable alternative at input ',' (...  employee_info SET project_name
= [["shop]1",...)
cqlsh:employes> UPDATE employee_info SET project_names = ["shop1","BMS ALumini"]
WHERE emp_name = "vara" ;
SyntaxException: line 1:49 no viable alternative at input ',' (... employee_info SET
project_names = [["shop]1",...)
cqlsh:employes> UPDATE employee_info SET project_names = ['shop1','BMS ALumini']
WHERE emp_name = "vara" ;
SyntaxException: line 1:89 no viable alternative at input ';' (...,'BMS ALumini'] WHERE
emp_name = ["var]a" ;)
cqlsh:employes> UPDATE employee_info SET project_names = ['shop1','BMS ALumini']
WHERE emp_name = 'vara' ;
```

InvalidRequest: Error from server: code=2200 [Invalid query] message="Some clustering keys are missing: salery"
cqlsh:employes> UPDATE employee_info SET project_names = ['shop1','BMS ALumini'] WHERE emp_name = 'vara' AND salery = 567.67 ;
cqlsh:employes> SELECT * FROM employee_info ;

```
 emp_name | salery | date_of_joining                | dept_name | emp_id | project_names
----------+--------+--------------------------------+-----------+--------+-------------------------
  gyanash |    990 | 2022-02-13 18:30:00.000000+0000 |      ECE |  BM220 |                     null
     omar |   9900 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM180 |                     null
     vara | 567.67 | 2020-07-17 18:30:00.000000+0000 |      CSE |  BM223 | ['shop1', 'BMS ALumini']
   sreenu |  45.45 | 2021-04-09 18:30:00.000000+0000 |      CSE |  BM193 |                     null
```