```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.4 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh> CREATE KEYSPACE Employee WITH REPLICATION = {'class': 'SimpleStrategy','
replication-factor' : 1};
AlreadyExists: Keyspace 'employee' already exists
cqlsh> DESCRIBE Employee

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

CREATE TABLE employee.employeeinfo (
        id int PRIMARY KEY,
        dept_name text,
        designation text,
        doj timestamp,
        name text,
        salary double
)
cqlsh> DESCRIBE Keyspaces;

employee  system_auth       system_schema  system_views
system  system_distributed  system_traces  system_virtual_schema

cqlsh:employee> describe tables;

employeeinfo

cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                            | name        | salary
-----+-----------+-------------+--------------------------------+----------+--------
 122 |        DL |    Manager | 2024-03-31 18:30:00.000000+0000 |     Dhruv |100
 121 |        DL |    Intern | 2024-02-29 18:30:00.000000+0000 | Dhruva S |     0

(2 rows)

cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id, dept_name, designation, doj,
name,salary) VALUES(1,'ML','Intern','2024-05-05','Heena', 1000) INSERT INTO
employeeinfo(id, dept_name, designation, doj, name,salary)
VALUES(2,'ML','Intern','2024-05-06','Neha', 2000)INSERT INTO employeeinfo(id, dept_name,
designation, doj, name,salary) VALUES(3,'DL','Intern','2024-05-05','Surya', 1000) APPLY
BATCH;
```

```
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name     | salary
-----+-----------+-------------+---------------------------------+----------+--------
   1 |    ML |     Intern | 2024-05-04 18:30:00.000000+0000 |Heena |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |     Dhruv |100
   2 |    ML |     Intern | 2024-05-05 18:30:00.000000+0000 |       Neha |   2000
 121 |        DL |     Intern | 2024-02-29 18:30:00.000000+0000 | Dhruva S |    0
   3 |    DL |     Intern | 2024-05-04 18:30:00.000000+0000 |Surya |   1000

(5 rows)
cqlsh:employee> UPDATE employeeinfo SET name ='Ria', dept_name = 'ML' WHERE id=121;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name  | salary
-----+-----------+-------------+---------------------------------+-------+--------
   1 |    ML |     Intern | 2024-05-04 18:30:00.000000+0000 | Heena |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |     100
   2 |    ML |     Intern | 2024-05-05 18:30:00.000000+0000 | Neha |   2000
 121 |        ML |     Intern | 2024-02-29 18:30:00.000000+0000 |  Ria |        0
   3 |    DL |     Intern | 2024-05-04 18:30:00.000000+0000 | Surya |   1000

(5 rows)
cqlsh:employee> ALTER TABLE employeeinfo ADD Projects text;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name  | projects | salary
-----+-----------+-------------+---------------------------------+-------+----------+--------
   1 |    ML |     Intern | 2024-05-04 18:30:00.000000+0000 | Heena |     null |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |     null |    100
   2 |    ML |     Intern | 2024-05-05 18:30:00.000000+0000 | Neha |     null |   2000
 121 |        ML |     Intern | 2024-02-29 18:30:00.000000+0000 |  Ria | null |    0
   3 |    DL |     Intern | 2024-05-04 18:30:00.000000+0000 | Surya |     null |   1000

(5 rows)
cqlsh:employee> BATCH BEGIN INSERT INTO employeeinfo(id,Projects) VALUES (1,APP
DEV)INSERT INTO employeeinfo(id,Projects) VALUES (122,WEB DEV)INSERT INTO
employeeinfo(id,Projects) VALUES (2,JAVA BACKEND) APPLY BATCH;
SyntaxException: line 1:0 no viable alternative at input 'BATCH' ([BATCH]...)
cqlsh:employee> BATCH BEGIN INSERT INTO employeeinfo(id,projects) VALUES (1,APP
DEV)INSERT INTO employeeinfo(id,projects) VALUES (122,WEB DEV)INSERT INTO
employeeinfo(id,projects) VALUES (2,JAVA BACKEND) APPLY BATCH;
SyntaxException: line 1:0 no viable alternative at input 'BATCH' ([BATCH]...)
```

```
cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id,projects) VALUES (1,APP
DEV)INSERT INTO employeeinfo(id,projects) VALUES (122,WEB DEV)INSERT INTO
employeeinfo(id,projects) VALUES (2,JAVA BACKEND) APPLY BATCH;

cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id,projects) VALUES (1,'APP
DEV')INSERT INTO employeeinfo(id,projects) VALUES (122,'WEB DEV')INSERT INTO
employeeinfo(id,projects) VALUES (2,'JAVA BACKEND') APPLY BATCH;

cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name  | projects     | salary
-----+-----------+-------------+---------------------------------+-------+--------------+--------
   1 |    ML |     Intern | 2024-05-04 18:30:00.000000+0000 | Heena |      APP DEV |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |      WEB DEV |
 100
   2 |    ML |     Intern | 2024-05-05 18:30:00.000000+0000 |  Neha | JAVA BACKEND |   2000
 121 |        ML |     Intern | 2024-02-29 18:30:00.000000+0000 |   Ria |         null |   0
   3 |    DL |     Intern | 2024-05-04 18:30:00.000000+0000 | Surya |         null |   1000

(5 rows)
cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id,projects) VALUES
(3,'research')INSERT INTO employeeinfo(id,projects) VALUES (121,'ux/ui') APPLY BATCH;

cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name  | projects     | salary
-----+-----------+-------------+---------------------------------+-------+--------------+--------
   1 |    ML |     Intern | 2024-05-04 18:30:00.000000+0000 | Heena |      APP DEV |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |      WEB DEV |
 100
   2 |    ML |     Intern | 2024-05-05 18:30:00.000000+0000 |  Neha | JAVA BACKEND |   2000
 121 |        ML |     Intern | 2024-02-29 18:30:00.000000+0000 |   Ria |        ux/ui |   0
   3 |    DL |     Intern | 2024-05-04 18:30:00.000000+0000 | Surya |     research |   1000

(5 rows)
cqlsh:employee> select * from employeeinfo ORDER BY salary ASC;

cqlsh:employee>
```

```
cqlsh> DESCRIBE Keyspaces;

employee   system_auth          system_schema   system_views
system     system_distributed   system_traces   system_virtual_schema

cqlsh> use employee
   ... ;
cqlsh:employee> describe tables;

employeeinfo

cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name     | salary
-----+-----------+-------------+---------------------------------+----------+--------
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |    Dhruv |    100
 121 |        DL |      Intern | 2024-02-29 18:30:00.000000+0000 |  Dhruva S |     0

(2 rows)
cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id, dept_name, designation, doj, name,salary) VA
LUES(1,'ML','Intern','2024-05-05','Heena', 1000) INSERT INTO employeeinfo(id, dept_name, designation,
 doj, name,salary) VALUES(2,'ML','Intern','2024-05-06','Neha', 2000)INSERT INTO employeeinfo(id, dept
_name, designation, doj, name,salary) VALUES(3,'DL','Intern','2024-05-05','Surya', 1000) APPLY BATCH;
cqlsh:employee> select * from employeeinfo;
```

```
 id  | dept_name | designation | doj                             | name  | projects     | salary
-----+-----------+-------------+---------------------------------+-------+--------------+--------
   1 |        ML |      Intern | 2024-05-04 18:30:00.000000+0000 | Heena |      APP DEV |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |      WEB DEV |    100
   2 |        ML |      Intern | 2024-05-05 18:30:00.000000+0000 |  Neha | JAVA BACKEND |   2000
 121 |        ML |      Intern | 2024-02-29 18:30:00.000000+0000 |   Ria |         null |      0
   3 |        DL |      Intern | 2024-05-04 18:30:00.000000+0000 | Surya |         null |   1000

(5 rows)
cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id,projects) VALUES (3,'research')INSERT INTO em
ployeeinfo(id,projects) VALUES (121,'ux/ui') APPLY BATCH;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name  | projects     | salary
-----+-----------+-------------+---------------------------------+-------+--------------+--------
   1 |        ML |      Intern | 2024-05-04 18:30:00.000000+0000 | Heena |      APP DEV |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 | Dhruv |      WEB DEV |    100
   2 |        ML |      Intern | 2024-05-05 18:30:00.000000+0000 |  Neha | JAVA BACKEND |   2000
 121 |        ML |      Intern | 2024-02-29 18:30:00.000000+0000 |   Ria |        ux/ui |      0
   3 |        DL |      Intern | 2024-05-04 18:30:00.000000+0000 | Surya |     research |   1000

(5 rows)
cqlsh:employee> select * from employeeinfo ORDER BY salary ASC;
```

```
 id  | dept_name | designation | doj                             | name      | salary
-----+-----------+-------------+---------------------------------+-----------+--------
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |     Dhruv |    100
 121 |        DL |      Intern | 2024-02-29 18:30:00.000000+0000 |  Dhruva S |      0

(2 rows)
cqlsh:employee> BEGIN BATCH INSERT INTO employeeinfo(id, dept_name, designation, doj, name,salary) VA
LUES(1,'ML','Intern','2024-05-05','Heena', 1000) INSERT INTO employeeinfo(id, dept_name, designation,
 doj, name,salary) VALUES(2,'ML','Intern','2024-05-06','Neha', 2000)INSERT INTO employeeinfo(id, dept
_name, designation, doj, name,salary) VALUES(3,'DL','Intern','2024-05-05','Surya', 1000) APPLY BATCH;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name      | salary
-----+-----------+-------------+---------------------------------+-----------+--------
   1 |        ML |      Intern | 2024-05-04 18:30:00.000000+0000 |     Heena |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |     Dhruv |    100
   2 |        ML |      Intern | 2024-05-05 18:30:00.000000+0000 |      Neha |   2000
 121 |        DL |      Intern | 2024-02-29 18:30:00.000000+0000 |  Dhruva S |      0
   3 |        DL |      Intern | 2024-05-04 18:30:00.000000+0000 |     Surya |   1000

(5 rows)
cqlsh:employee> UPDATE employeeinfo SET name ='Ria', dept_name = 'ML' WHERE id=121;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name   | salary
-----+-----------+-------------+---------------------------------+--------+--------
   1 |        ML |      Intern | 2024-05-04 18:30:00.000000+0000 |  Heena |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |  Dhruv |    100
   2 |        ML |      Intern | 2024-05-05 18:30:00.000000+0000 |   Neha |   2000
 121 |        ML |      Intern | 2024-02-29 18:30:00.000000+0000 |    Ria |      0
   3 |        DL |      Intern | 2024-05-04 18:30:00.000000+0000 |  Surya |   1000

(5 rows)
cqlsh:employee> ALTER TABLE employeeinfo ADD Projects text;
cqlsh:employee> select * from employeeinfo;

 id  | dept_name | designation | doj                             | name   | projects | salary
-----+-----------+-------------+---------------------------------+--------+----------+--------
   1 |        ML |      Intern | 2024-05-04 18:30:00.000000+0000 |  Heena |     null |   1000
 122 |        DL |     Manager | 2024-03-31 18:30:00.000000+0000 |  Dhruv |     null |    100
   2 |        ML |      Intern | 2024-05-05 18:30:00.000000+0000 |   Neha |     null |   2000
 121 |        ML |      Intern | 2024-02-29 18:30:00.000000+0000 |    Ria |     null |      0
   3 |        DL |      Intern | 2024-05-04 18:30:00.000000+0000 |  Surya |     null |   1000
```