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USN : 1BM20CS407

```
bmsce@bmsce-Precision-T1700:~$ 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> CREATE KEYSPACE Employee WITH replication = { 'class':'SimpleStrategy','replication_factor':1};
SyntaxException: line 1:93 mismatched input ')' expecting ')' (... { 'class':'SimpleStrategy','replication_factor':1[]})...
cqlsh> CREATE KEYSPACE Employee WITH replication = { 'class':'SimpleStrategy','replication_factor':1 };
AlreadyExists: Keyspace 'employee' already exists
cqlsh> CREATE KEYSPACE Employee1 WITH replication = { 'class':'SimpleStrategy','replication_factor':1 };
cqlsh> Describe Keyspaces

students      system_auth  library      student      employee
system_schema system        employee1    system_distributed system_traces
```

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Activities Terminal Apr 27 15:21 bmsce@bmsce-Precision-T1700:~$ cqlsh
AND mentable_flush_period_in_ms = 0
AND min_index_interval = 128
AND read_repair_chance = 0.0
AND speculative_retry = '99PERCENTILE';
cqlsh> describe employee1
CREATE KEYSPACE employee1 WITH replication = {'class': 'SimpleStrategy', 'replication_factor': '1'} AND durable_writes = true;
cqlsh> create table employee1.employee1_info(emp_id int primary key,emp_name text,designation text,date_of_joining timestamp,salarydouble,dept_name text);
SyntaxException: line 1:138 no viable alternative at input '...' (...designation text,date_of_joining timestamp,salarydouble[,,...])
cqlsh> create table employee1.employee1_info(emp_id int primary key,emp_name text,designation text,date_of_joining timestamp,salary double,dept_name text);
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (1,'chethana','manager','2021-09-22',20000,'development');
... insert into employee1.employee1_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (2,'arfa','developer','2021-09-30',30000,'production');
... insert into employee1.employee1_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (3,'bharat','helper','2021-02-30',40000,'sales');
... apply batch;
...
Incomplete statement at end of file
bmsce@bmsce-Precision-T1700:~$ 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> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
(0 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(121,'2021-06-24','general','helper','arun',2000);
... apply batch;
cqlsh> select * from employee1.employee1_info;
select * from employee1.employee1_info;
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
121 | 2021-06-23 18:30:00.000000+0000 | general | helper | arun | 2000
(1 rows)
cqlsh> begin batch insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(2,'2021-06-24','sales','developer','chethana',12000);
...
[1]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ 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> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(1,'2021-06-24','sales','developer','chethana',20000);
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(2,'2021-06-03','deployment','manager','ashwini',30000);
... apply batch;
cqlsh> select * from employee1.employee1_info;
```

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Activities Terminal Apr 27 15:22 bmsce@bmsce-Precision-T1700-
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
121 | 2021-06-23 18:30:00.000000+0000 | general | helper | arun | 2000
(1 rows)
cqlsh> begin batch insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(2,'2021-06-24','sales','developer','chethana',12000);
...
[1]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ 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> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(1,'2021-06-24','sales','developer','chethana',20000);
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(2,'2021-06-03','deployment','manager','ashwini',30000);
... apply batch;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | 30000
121 | 2021-06-23 18:30:00.000000+0000 | general | helper | arun | 2000
(3 rows)
cqlsh> update employee1.employee1_info set emp_name='priya',dept_name='testing' where emp_id=121;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | 2000
(3 rows)
cqlsh> select * from employee1.employee1_info where emp_id in(1,2,121) order by salary;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Order by is currently only supported on the clustered columns of the PRIMARY KEY, got salary"
cqlsh> select * from employee1.emp where emp_id in(1,2,121) order by salary;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Unconfigured table emp"
cqlsh> alter table employee1.employee1_info add projects set<text>;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | null | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | null | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | null | 2000
(3 rows)
cqlsh> update employee1.employee1_info set projects=projects + {'ABC',"sample'XYZ"} where emp_id=1;
[2]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ cqlsh

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Activities Terminal Apr 27 15:23 bmsce@bmsce-Precision-T1700-
cqlsh> update employee1.employee1_info set projects=projects + {'ABC',"sample'XYZ"} where emp_id=1;
...
[2]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ cqlsh
cqlsh: command not found
bmsce@bmsce-Precision-T1700:~$ 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> select * from employee1.employee1_info;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | null | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | null | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | null | 2000
(3 rows)
cqlsh> update employee1.employee1_info set projects=projects + {'ABC','sample'.XYZ'} where emp_id=1;
SyntaxException: line 1:11 mismatched input ' expecting '}' (...projects=projects + {'ABC','sample'[...]...})
cqlsh> update employee1.employee1_info set projects=projects + {'ABC','sample',XYZ'} where emp_id=1;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | null | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | null | 2000
(3 rows)
cqlsh> update employee1.employee1_info set projects=projects + {'ABC1','sample1','MNO'} where emp_id=2;
cqlsh> update employee1.employee1_info set projects=projects + {'ABC2','sample2','PQR'} where emp_id=121;
cqlsh> select * from employee1.employee1_info;
emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwini | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000
(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
...
[3]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ CQLS
CQLS: command not found
bmsce@bmsce-Precision-T1700:~$ CQLSH
CQLSH: command not found
bmsce@bmsce-Precision-T1700:~$ 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.

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Activities Terminal
Apr 27 15:23
bmsce@bmsce-Precision-T1700:~$

[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000

(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... APPLY BATCH;
... select * from employee1.employee1_info;
...
[4]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ 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> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... APPLY BATCH;
... select * from employee1.employee1_info;
...
[5]* Stopped cqlsh
bmsce@bmsce-Precision-T1700:~$ 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> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000

(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... APPLY BATCH;
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000

(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... select * from employee1.employee1_info;
... apply batch;
SyntaxException: (line 3:0 mismatched input 'select' expecting K_APPLY (...12000) using TTL 15:[select]...)
cqlsh> begin batch
```

```
Activities Terminal
Apr 27 15:23
bmsce@bmsce-Precision-T1700:~$

(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... APPLY BATCH;
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000

(3 rows)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... select * from employee1.employee1_info;
... apply batch;
SyntaxException: (line 3:0 mismatched input 'select' expecting K_APPLY (...12000) using TTL 15:[select]...)
cqlsh> begin batch
... insert into employee1.employee1_info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(12,'2021-06-04','sales','developer','mohan',12000) using TTL 15;
... apply batch;
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000
12 | 2021-06-03 18:30:00.000000+0000 | sales | developer | mohan | null | 12000

(4 rows)
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000
12 | 2021-06-03 18:30:00.000000+0000 | sales | developer | mohan | null | 12000

(4 rows)
cqlsh> select * from employee1.employee1_info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects | salary
-----|-----|-----|-----|-----|-----|-----
1 | 2021-06-23 18:30:00.000000+0000 | sales | developer | chethana | {'ABC', 'XYZ', 'sample'} | 20000
2 | 2021-06-02 18:30:00.000000+0000 | deployment | manager | ashwinl | {'ABC1', 'MNO', 'sample1'} | 30000
121 | 2021-06-23 18:30:00.000000+0000 | testing | helper | priya | {'ABC2', 'PQR', 'sample2'} | 2000

(3 rows)
cqlsh> paging off;
Disabled Query paging.
cqlsh> select * from employee1.employee1_info where emp_id in(1,2,121) order by salary;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Order by is currently only supported on the clustered columns of the PRIMARY KEY, got salary"
cqlsh>
```