BDA LAB 3

cqlsh> CREATE KEYSPACE Employee WITH
REPLICATION={'class':'SimpleStrategy','replication_factor':1};
cqlsh> DESCRIBE KEYSPACES

employee system_auth   system_schema system_views
system   system_distributed system_traces system_virtual_schema

cqlsh> USE Employee;

cqlsh:employee> CREATE TABLE employee_info (
        ... emp_id int,
        ... dept_name text,
        ... salary double,
        ... date_of_joining timestamp,
        ... emp_name text,
        ... designation text,
        ... primary key(emp_id,salary));
cqlsh:employee> select * from employee_info;

 emp_id | salary | date_of_joining | dept_name | designation | emp_name
--------+--------+-----------------+-----------+-------------+----------

(0 rows)
cqlsh:employee> BEGIN BATCH
        ... INSERT INTO Employee_Info(Emp_id, Emp_Name, Designation,
Date_Of_Joining, salary, Dept_name)
        ... VALUES (120,'Hemang','Manager','2021-04-01',30000.0,'CSE')
        ... INSERT INTO Employee_Info(Emp_id, Emp_Name, Designation,
Date_Of_Joining, salary, Dept_name)
        ... VALUES (121,'Kiran','Emp','2019-04-20',20000.0,'CSE')
        ... INSERT INTO Employee_Info(Emp_id, Emp_Name, Designation,
Date_Of_Joining, salary, Dept_name)
        ... VALUES (123,'Samarth','Emp','2020-08-01',22500.0,'CSE')
        ... APPLY BATCH;

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

 emp_id | salary | date_of_joining                | dept_name | designation |
emp_name
--------+--------+--------------------------------+-----------+-------------+----------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |       CSE |     Manager |
Hemang
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |       CSE |         Emp |
Samarth
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |       CSE |         Emp |
Kiran

(3 rows)
cqlsh:employee> paging off;
Disabled Query paging.
cqlsh:employee> select * from employee_info where emp_id in(120,121,123)
order by salary;

 emp_id | salary | date_of_joining                | dept_name | designation |
emp_name
--------+--------+--------------------------------+-----------+-------------+----------
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |       CSE |         Emp |
Kiran
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |       CSE |         Emp |
Samarth
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |       CSE |     Manager |
Hemang

cqlsh:employee> update employee_info set
emp_name='david',dept_name='ECE' where emp_id=121 and salary=20000;
cqlsh:employee> select * from employee_info ;

 emp_id | salary | date_of_joining                | dept_name | designation |
emp_name
--------+--------+--------------------------------+-----------+-------------+----------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |       CSE |     Manager |
Hemang
```

```
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |      CSE |        Emp |
Samarth
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |      ECE |        Emp |
david
```

(3 rows)

cqlsh:employee> alter table employee_info add projects set<text>;
cqlsh:employee> select * from employee_info ;

```
 emp_id | salary | date_of_joining                | dept_name | designation |
emp_name | projects
--------+--------+--------------------------------+-----------+-------------+----------+----------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |      CSE |    Manager |
Hemang|    null
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |      CSE |        Emp |
Samarth |     null
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |      ECE |        Emp |
david |     null
```

(3 rows)

cqlsh:employee> update employee_info set projects=projects+{'A','B'} where
emp_id=121 and salary=20000;
cqlsh:employee> select * from employee_info ;

```
 emp_id | salary | date_of_joining                | dept_name | designation |
emp_name | projects
--------+--------+--------------------------------+-----------+-------------+----------+------------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |      CSE |    Manager |
Hemang|     null
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |      CSE |        Emp |
Samarth |     null
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |      ECE |        Emp |
david | {'A', 'B'}
```

(3 rows)

```
cqlsh:employee> update employee_info set projects={'C'} where emp_id=123
and salary=22500;
cqlsh:employee> select * from employee_info ;

 emp_id | salary | date_of_joining              | dept_name | designation |
emp_name | projects
--------+--------+------------------------------+-----------+-------------+----------+------------
   120 |  30000 | 2021-03-31 18:30:00.000000+0000 |     CSE |    Manager |
Hemang|      null
   123 |  22500 | 2020-07-31 18:30:00.000000+0000 |     CSE |        Emp |
Samarth |     {'C'}
   121 |  20000 | 2019-04-19 18:30:00.000000+0000 |     ECE |        Emp |
david | {'A', 'B'}

(3 rows)
cqlsh:employee> update employee_info set projects=projects+{'D'} where
emp_id=120 and salary=30000;
cqlsh:employee> select * from employee_info ;

 emp_id | salary | date_of_joining              | dept_name | designation |
emp_name | projects
--------+--------+------------------------------+-----------+-------------+----------+------------
   120 |  30000 | 2021-03-31 18:30:00.000000+0000 |     CSE |    Manager |
Hemang|     {'D'}
   123 |  22500 | 2020-07-31 18:30:00.000000+0000 |     CSE |        Emp |
Samarth |     {'C'}
   121 |  20000 | 2019-04-19 18:30:00.000000+0000 |     ECE |        Emp |
david | {'A', 'B'}

(3 rows)

cqlsh:employee> INSERT INTO Employee_Info(Emp_id, Emp_Name,
Designation, Date_Of_Joining, salary, Dept_name)
        ... VALUES (125,'george','Emp','2021-03-08',35000.0,'ISE')
        ... using ttl 15;
cqlsh:employee> select * from employee_info ;
```

```
 emp_id | salary | date_of_joining                 | dept_name | designation | emp_name | projects
--------+--------+---------------------------------+-----------+-------------+----------+------------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |       CSE |     Manager |   Hemang|      {'D'}
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |       CSE |         Emp |  Samarth |      {'C'}
    125 |  35000 | 2021-03-07 18:30:00.000000+0000 |       ISE |         Emp |   george |       null
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |       ECE |         Emp |    david | {'A', 'B'}

(4 rows)
cqlsh:employee> select * from employee_info ;

 emp_id | salary | date_of_joining                 | dept_name | designation | emp_name | projects
--------+--------+---------------------------------+-----------+-------------+----------+------------
    120 |  30000 | 2021-03-31 18:30:00.000000+0000 |       CSE |     Manager |   Hemang|      {'D'}
    123 |  22500 | 2020-07-31 18:30:00.000000+0000 |       CSE |         Emp |  Samarth |      {'C'}
    121 |  20000 | 2019-04-19 18:30:00.000000+0000 |       ECE |         Emp |    david | {'A', 'B'}

(3 rows)
```