

```
bmscecse@bmscecse-HP-Elite-Tower-600-G9-Desktop: ~          bmscecse@bmscecse-HP-Elite-Tower-600-G9-D
cqlsh:employee> CREATE KEYSPACE Employee
...   WITH replication = {
...     'class': 'SimpleStrategy',
...     'replication_factor': 1
... };
cqlsh:employee> USE Employee;
cqlsh:employee>
cqlsh:employee> CREATE TABLE Employee_Info (
...       Emp_Id int PRIMARY KEY,
...       Emp_Name text,
...       Designation text,
...       Date_of_Joining date,
...       Salary decimal,
...       Dept_Name text
... );
cqlsh:employee>
cqlsh:employee> DESCRIBE TABLE Employee_Info;
CREATE TABLE employee.employee_info (
    emp_id int PRIMARY KEY,
    date_of_joining date,
    dept_name text,
    designation text
```

```
emp_name text,
salary decimal
) WITH additional_write_policy = '99p'
    AND bloom_filter_fp_chance = 0.01
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
    AND cdc = false
    AND comment = ''
    AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy'
, 'max_threshold': '32', 'min_threshold': '4'}
    AND compression = {'chunk_length_in_kb': '16', 'class': 'org.apache.cassandra.io.compress.LZ
4Compressor'}
    AND crc_check_chance = 1.0
    AND default_time_to_live = 0
    AND extensions = {}
    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 = 'BLOCKING'
    AND speculative_retry = '99p';
cqlsh:employee> BEGIN BATCH
    ... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salar
y, Dept_Name)
    ... VALUES (121, 'Ravi', 'Manager', '2018-06-12', 75000, 'HR');
```

```

... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
... VALUES (121, 'Ravi', 'Manager', '2018-06-12', 75000, 'HR');
...
... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
... VALUES (122, 'Anita', 'Developer', '2019-03-20', 60000, 'IT');
...
... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
... VALUES (123, 'Karan', 'Tester', '2020-01-15', 45000, 'QA');
... APPLY BATCH;
cqlsh:employee>
cqlsh:employee> SELECT * FROM Employee_Info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----+-----------------+-----------+-------------+----------+-----
123   | 2020-01-15    | QA        | Tester      | Karan   | 45000
122   | 2019-03-20    | IT        | Developer   | Anita   | 60000
121   | 2018-06-12    | HR        | Manager     | Ravi    | 75000

(3 rows)
cqlsh:employee>
cqlsh:employee> UPDATE Employee_Info

```

```
(3 rows)
cqlsh:employee>
cqlsh:employee> UPDATE Employee_Info
    ... SET Emp_Name = 'Ravindra',
    ...     Dept_Name = 'Finance'
    ... WHERE Emp_Id = 121;
cqlsh:employee>
cqlsh:employee> SELECT * FROM Employee_Info
    ... WHERE Emp_Id = 121;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----+-----------------+-----------+-------------+-----------+-----
  121 | 2018-06-12 | Finance | Manager | Ravindra | 75000

(1 rows)
cqlsh:employee>
cqlsh:employee> SELECT * FROM Employee_Info ALLOW FILTERING;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----+-----------------+-----------+-------------+-----------+-----
  123 | 2020-01-15 | QA | Tester | Karan | 45000
  122 | 2019-03-20 | IT | Developer | Anita | 60000
  121 | 2018-06-12 | Finance | Manager | Ravindra | 75000
```

```
(3 rows)
cqlsh:employee>
cqlsh:employee> ALTER TABLE Employee_Info
    ... ADD Projects set<text>;
cqlsh:employee>
cqlsh:employee> DESCRIBE TABLE Employee_Info;

CREATE TABLE employee.employee_info (
    emp_id int PRIMARY KEY,
    date_of_joining date,
    dept_name text,
    designation text,
    emp_name text,
    salary decimal,
    projects set<text>
) WITH additional_write_policy = '99p'
    AND bloom_filter_fp_chance = 0.01
    AND caching = {'keys': 'ALL', 'rows_per_partition': 'NONE'}
    AND cdc = false
    AND comment = ''
    AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy'}
    , 'max_threshold': '32', 'min_threshold': '4'}
    AND compression = {'chunk_length_in_kb': '16', 'class': 'org.apache.cassandra.io.compress.LZ'
```

```
4Compressor'}
    AND crc_check_chance = 1.0
    AND default_time_to_live = 0
    AND extensions = {}
    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 = 'BLOCKING'
    AND speculative_retry = '99p';
cqlsh:employee> UPDATE Employee_Info
    ... SET Projects = {'Payroll System', 'Employee Portal'}
    ... WHERE Emp_Id = 121;
cqlsh:employee>
cqlsh:employee> UPDATE Employee_Info
    ... SET Projects = {'Inventory App'}
    ... WHERE Emp_Id = 122;
cqlsh:employee>
cqlsh:employee> SELECT Emp_Id, Emp_Name, Projects FROM Employee_Info;

emp_id | emp_name | projects
-----+-----+-----
  123 |   Karan |          null
  122 |   Anita | {'Inventory App'}
```

```
| (3 rows)
cqlsh:employee>
cqlsh:employee> INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
...   VALUES (124, 'Meena', 'Support', '2021-07-01', 40000, 'Admin')
... USING TTL 15;
cqlsh:employee>
cqlsh:employee> SELECT * FROM Employee_Info;

emp_id | date_of_joining | dept_name | designation | emp_name | projects
       | salary          |
-----+-----+-----+-----+-----+-----+
  123 | 2020-01-15 | QA | Tester | Karan |
  null | 45000        |
  122 | 2019-03-20 | IT | Developer | Anita |
App' } | 60000        |          |          |          | {'Inventory
      |              |          |          |          | Stem'}
  121 | 2018-06-12 | Finance | Manager | Ravindra |
stem' } | 75000        |          |          |          | {'Employee Portal', 'Payroll Sy
  124 | 2021-07-01 | Admin | Support | Meena |
  null | 40000        |          |          |          |
```