

```
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
```

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    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, 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 (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;
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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;

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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
123	2020-01-15	QA	Tester	Karan	
122	2019-03-20	IT	Developer	Anita	{'Inventory
121	2018-06-12	Finance	Manager	Ravindra	{'Employee Portal', 'Payroll Sy
124	2021-07-01	Admin	Support	Meena	