

1. Create a keyspace by name Employee

```
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 employees;
```

2. Create a column family by name Employee-Info with attributes Emp_Id Primary Key, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name

```
cqlsh> USE Employee
... ;
cqlsh:employee> CREATE TABLE Employee_Info (Emp_id int PRIMARY KEY, Emp_Name text, Designation text,
... Date_Of_Joining timestamp, salary double, Dept_name text);
cqlsh:employee> DESCRIBE TABLES;

employee_info
```

3. Insert the values into the table in batch

```
cqlsh:employee> select * from Employee_Info
... ;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----+-----+-----+-----+-----+-----
120 | 2021-04-01 07:00:00.000000+0000 | CSE | Manager | Asha | 30000
123 | 2020-08-01 07:00:00.000000+0000 | CSE | Emp | Samarth | 22500
122 | 2019-05-01 07:00:00.000000+0000 | CSE | Emp | Tarun | 22000
121 | 2019-04-20 07:00:00.000000+0000 | CSE | Emp | Kiran | 20000
124 | 2019-06-01 07:00:00.000000+0000 | CSE | Emp | Rohan | 21000
(5 rows)
```

4. Update Employee name and Department of Emp-Id 121

```
cqlsh:employee> UPDATE Employee_Info SET Emp_Name='David', Dept_name='ECE' WHERE Emp_id=121;
cqlsh:employee> select * from Employee_Info
... ;

emp_id | date_of_joining | dept_name | designation | emp_name | salary
-----+-----+-----+-----+-----+-----
120 | 2021-04-01 07:00:00.000000+0000 | CSE | Manager | Asha | 30000
123 | 2020-08-01 07:00:00.000000+0000 | CSE | Emp | Samarth | 22500
122 | 2019-05-01 07:00:00.000000+0000 | CSE | Emp | Tarun | 22000
121 | 2019-04-20 07:00:00.000000+0000 | ECE | Emp | David | 20000
124 | 2019-06-01 07:00:00.000000+0000 | CSE | Emp | Rohan | 21000
(5 rows)
```

5. Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.

```
cqlsh:employee> ALTER TABLE Employee_Info ADD Projects text;
cqlsh:employee> select * from Employee_Info;
```

emp_id	salary	date_of_joining	dept_name	designation	emp_name	projects
120	30000	2021-04-01 07:00:00.000000+0000	CSE	Manager	Asha	null
123	22500	2020-08-01 07:00:00.000000+0000	CSE	Emp	Samarth	null
122	22000	2019-05-01 07:00:00.000000+0000	CSE	Emp	Tarun	null
121	20000	2019-04-20 07:00:00.000000+0000	CSE	Emp	Kiran	null
124	21000	2019-06-01 07:00:00.000000+0000	CSE	Emp	Rohan	null

(5 rows)

6. Update the altered table to add project names.

```
cqlsh:employee> UPDATE Employee_Info SET Projects='Reporting' WHERE Emp_id=121 and salary=20000.0;
cqlsh:employee> select * from Employee_Info;
```

emp_id	salary	date_of_joining	dept_name	designation	emp_name	projects
120	30000	2021-04-01 07:00:00.000000+0000	CSE	Manager	Asha	Research
123	22500	2020-08-01 07:00:00.000000+0000	CSE	Emp	Samarth	Data Migration
122	22000	2019-05-01 07:00:00.000000+0000	CSE	Emp	Tarun	Data analysis
121	20000	2019-04-20 07:00:00.000000+0000	CSE	Emp	Kiran	Reporting
124	21000	2019-06-01 07:00:00.000000+0000	CSE	Emp	Rohan	Research

(5 rows)

7. Create a TTL of 15 seconds to display the values of Employees.

```
cqlsh:employee> select ttl(Emp_Name) from Employee_Info Where Emp_id=125;
```

ttl(emp_name)
6

(1 rows)