

1)

```
CREATE KEYSPACE EMPLOYEE2  
WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
```

```
USE EMPLOYEE2
```

```
CREATE COLUMNFAMILY EmployeeInfo
```

```
(  
  EmpID INT PRIMARY KEY  
  ,EmpName VARCHAR  
  ,Designation VARCHAR  
  ,Salary INT  
  ,Date_of_joining TIMESTAMP  
  ,DeptName VARCHAR  
);
```

```
INSERT INTO EmployeeInfo (EmpID, EmpName, Designation, Salary, Date_of_joining,  
DeptName) values (120,'Sam','Manager',25000,'2020-01-01','X');
```

```
INSERT INTO EmployeeInfo (EmpID, EmpName, Designation, Salary, Date_of_joining,  
DeptName) values (121,'Michael','Intern',10000,'2020-05-05','Y');
```

```
INSERT INTO EmployeeInfo (EmpID, EmpName, Designation, Salary, Date_of_joining,  
DeptName) values (105,'Jack','CEO',100000,'2020-01-01','A');
```

```
SELECT * FROM EMPLOYEE2.EmployeeInfo
```

```
Update EmployeeInfo SET EmpName='Stuart', DeptName='Z' WHERE EmpID=121;
```

```
SELECT * FROM EMPLOYEE2.EmployeeInfo GROUP BY EmpID
```

```
ALTER TABLE EmployeeInfo ADD Projects TEXT
```

```
UPDATE EmployeeInfo SET Projects='ABCD' WHERE EmpID=121
```

```
UPDATE EmployeeInfo SET Projects='ABCDE' WHERE EmpID=105
```

```
UPDATE EmployeeInfo SET Projects='ABD' WHERE EmpID=120
```

```
INSERT INTO EmployeeInfo (EmpID, EmpName, Designation, Salary, Date_of_joining,  
DeptName, Projects) values (124, 'John','Senior Manager',50000,'2020-01-01','A','ABCDEF')  
USING TTL 60;
```

```
SELECT TTL(Designation) FROM EmployeeInfo WHERE EmpID=124;
```

2)

CREATE KEYSPACE LIBRARY

WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};

USE LIBRARY

CREATE COLUMNFAMILY libraryinfo(stud_id uuid, counter_value counter, stud_name VARCHAR, book_name VARCHAR, book_id INT, DOI VARCHAR, PRIMARY KEY(stud_id,stud_name,book_name,book_id,doi));

UPDATE libraryinfo set counter_value=counter_value+1 where
stud_id=cdd43759-bc64-4119-91bf-3e9ec59ca966 and stud_name='ABC' and
book_name='XYZ' and book_id=1 and doi='1/2/2020';

UPDATE libraryinfo set counter_value=counter_value+1 where stud_id=uuid() and
stud_name='DEF' and book_name='TUV' and book_id=1 and doi='1/2/2020';

UPDATE libraryinfo set counter_value=counter_value+1 where stud_id=uuid() and
stud_name='GHI' and book_name='RST' and book_id=1 and doi='1/2/2020';

SELECT * FROM libraryinfo

UPDATE libraryinfo set counter_value=counter_value+1 where
stud_id=a56165fc-11c0-4e47-ba0b-e4ad8dd7b69d and stud_name='GHI' and
book_name='RST' and book_id=1 and doi='1/2/2020';

SELECT * from libraryinfo where counter_value=2 ALLOW FILTERING;

select * from libraryinfo;