

## LAB 2 –EMPLOYEE KEYSPACE

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6- C

BDA LAB

**Creation of key space, column family and insertion into table:**

```
cqlsh> use Employee;  
InvalidRequest: Error from server: code=2200 [Invalid query] message="Keyspace 'employee' does not exist"  
cqlsh> Create keyspace Employee with Replication = { 'class': 'SimpleStrategy','replication_factor':1};  
SyntaxException: Unknown property 'replication'  
cqlsh> Create keyspace Employee with Replication = { 'class': 'SimpleStrategy','replication_factor':1};
```

```
cqlsh> use Employee;  
cqlsh:employee> create table empinfo( emp_id int PRIMARY KEY, emp_name text, designation text, salary int, dept_name text);  
cqlsh:employee> BEGIN BATCH  
    ... insert into empinfo(emp_id,emp_name,designation, salary, dept_name) values( 1,'ASHA','Developer',50000,'Development');  
    ... insert into empinfo(emp_id,emp_name,designation, salary, dept_name) values( 2,'ARUN','Tester',55000,'Testing');  
    ... insert into empinfo(emp_id,emp_name,designation, salary, dept_name) values(32,'Bharathi','accountant',60000,'Financial');  
    ... insert into empinfo(emp_id,emp_name,designation, salary, dept_name) values(4,'Swathii','Advisor',45000,'Marketing');  
    ... insert into empinfo(emp_id,emp_name,designation, salary, dept_name) values(55,'Triveni',' chief Advisor',75000,'Tool development');  
    ... APPLY BATCH;  
cqlsh:employee>
```

Update Employee name and Department of Emp-Id 121:

```
cqlsh:employee> UPDATE empinfo SET emp_name = 'RAHUL', dept_name = 'DEVELOPER' where emp_id = 121;
cqlsh:employee> select * from empinfo;
```

| emp_id | dept_name        | designation   | emp_name | salary |
|--------|------------------|---------------|----------|--------|
| 55     | Tool development | chief Advisor | Triveni  | 75000  |
| 1      | Development      | Developer     | ASHA     | 50000  |
| 2      | Testing          | Tester        | ARUN     | 55000  |
| 4      | Marketing        | Advisor       | Swathii  | 45000  |
| 121    | DEVELOPER        | chief Advisor | RAHUL    | 75090  |
| 32     | Financial        | accountant    | Bharathi | 60000  |

**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 empinfo ADD prjct_names set<text>;
cqlsh:employee> update empinfo SET prjct_names = prjct_names + {'Face recognition system', ' Bank management ', ' Improvements in medicsl electronics'} where emp_id = 55
;
cqlsh:employee> select * from empinfo;
```

| emp_id | dept_name        | designation   | emp_name | prjct_names  | prjct_names  |       |
|--------|------------------|---------------|----------|--|--|-------|
|        |                  |               |          |  | salary   |       |
| 55     | Tool development | chief Advisor | Triveni  | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | 75000 |
| 1      | Development      | Developer     | ASHA     | null   | null   | 50000 |
| 2      | Testing          | Tester        | ARUN     | null   | null   | 55000 |
| 4      | Marketing        | Advisor       | Swathii  | null   | null   | 45000 |
| 121    | DEVELOPER        | chief Advisor | RAHUL    | null   | null   | 75090 |
| 32     | Financial        | accountant    | Bharathi | null   | null   | 60000 |

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

```
(6 rows)
cqlsh:employee> insert into empinfo(emp_id,emp_name,designation,salary,dept_name ) values( 23,'AKASH','Tester',65000,'Testing') USING TTL 30;
cqlsh:employee> select * from empinfo;
```

| emp_id | dept_name        | designation   | emp_name | prjct_names  | prjct_names  | salary |
|--------|------------------|---------------|----------|--|--|--------|
| 23     | Testing          | Tester        | AKASH    | null   | null   | 65000  |
| 55     | Tool development | chief Advisor | Triveni  | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | 75000  |
| 1      | Development      | Developer     | ASHA     | null   | null   | 50000  |
| 2      | Testing          | Tester        | ARUN     | null   | null   | 55000  |
| 4      | Marketing        | Advisor       | Swathii  | null   | null   | 45000  |
| 121    | DEVELOPER        | chief Advisor | RAHUL    | null   | null   | 75090  |
| 32     | Financial        | accountant    | Bharathi | null   | null   | 60000  |

## After 15 seconds

```
terminal
cqlsh:employee> select * from empinfo;
```

| emp_id | dept_name        | designation   | emp_name | prjct_names  | prjct_names  | salary |
|--------|------------------|---------------|----------|--|--|--------|
| 55     | Tool development | chief Advisor | Triveni  | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | { ' Bank management ', ' Improvements in medicsl electronics', 'Face recognition system' } | 75000  |
| 1      | Development      | Developer     | ASHA     | null   | null   | 50000  |
| 2      | Testing          | Tester        | ARUN     | null   | null   | 55000  |
| 4      | Marketing        | Advisor       | Swathii  | null   | null   | 45000  |
| 121    | DEVELOPER        | chief Advisor | RAHUL    | null   | null   | 75090  |
| 32     | Financial        | accountant    | Bharathi | null   | null   | 60000  |