

BDA Lab-6

Q1]

i) Create Keyspace Employee:-

```
> CREATE KEYSPACE Employee with replication =  
    {'class': 'SimpleStrategy', 'replication-factor': 1};
```

ii) Creating column family

```
> CREATE TABLE Employee-Info (Emp-id int PRIMARY KEY,  
    Emp-name text, Designation text, DateOfJoining timestamp,  
    Salary double, Department text);
```

iii) Insert values into table

```
> BEGIN BATCH
```

```
... INSERT INTO Employee-Info (Emp-id, Emp-name, Designation,  
    DateOfJoining, Salary, Department) VALUES (121, 'ABC', 'SE',  
    '2020-11-12', 180000, 'CMR')
```

```
...
```

```
... APPLY BATCH;
```

iv) Update Employee name & Department of Emp-id 123

```
> UPDATE Employee-Info SET Emp-name = 'XYZ' where  
    Emp-id = 123
```

v) Alter table to add a column Projects

```
> ALTER TABLE Employee-Info ADD Projects set<text>;
```

vi) Update altered table to add project names.

```
> UPDATE Employee-Info SET Projects = Projects + {'P1', 'P2'}
```

```
where Emp-id = 123;
```

vii) Create a TTL of 15 seconds to display values of Employees

```
> INSERT INTO Employee-Info (Emp-id, Emp-name, Designation, DateOfJoining, Salary, Department) VALUES (125, 'PQR', 'SE', '2020-12-11', 12000, 'Development') USING JS;
```

Q 2) > CREATE KEYSPACE Library with replication = { 'class': 'SimpleStrategy', 'replication_factor': 1 };

```
> CREATE TABLE Library-Info (Stud-id int, Stud-name text, Book-name text, Date-of-issue timestamp, Counter-value Counter, PRIMARY KEY (Stud-id, Stud-name, Book-name, Book-Id, Date-of-issue));
```

```
> UPDATE Library-info SET counter-value = counter-value + 1 WHERE stud-id = 112 and stud-name = 'ABC' and book-name = 'BDA' and book-id = 1 and date-of-issue = '2020-12-11'
```

Display details :-

```
SELECT * FROM Library-Info;
```

Query to show that a student with id 112 has taken a book "BDA" 2 times.

```
> SELECT * from library-info where stud-id = 112;
```

Exporting :-

```
> COPY Library-Info (Stud-Id, Stud-name, Book-name, Book-Id, Date-of-issue, Counter-value) TO 'D:\Library-Info.csv'
```

Importing :-

```
> COPY Library-Info (Stud-Id, Stud-name, Book-name, Book-Id, Date-of-issue, Counter-value) FROM 'D:\Library-Info.csv'
```