LAB 6 QUESTION 1:

1. Create a keyspace by name Employee

```
cqlsh> CREATE KEYSPACE "employee" WITH replication={'class':'SimpleStrategy', 'replication_fact or':1};
cqlsh> DESCRIBE keyspaces;

"Student" system_auth student employee
system_schema system system_distributed system_traces
```

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

3. Insert the values into the table in batch

```
cqlsh:employee> BEGIN BATCH
... INSERT INTO employeeInfo(employeeID, name, designation, dateofJoining, salary, depar tmentName)VALUES(121, 'Divyanshu', 'SDE 1', '2020-3-21', 20000, 'Software');
... INSERT INTO employeeInfo(employeeID, name, designation, dateofJoining, salary, depar tmentName)VALUES(122, 'Ajith', 'Power Engineer', '2020-6-23', 20000, 'Electric');
... INSERT INTO employeeInfo(employeeID, name, designation, dateofJoining, salary, depar
tmentName)VALUES(123, 'Asish', 'Network Engineer', '2020-7-12', 40000, 'Hardware');
... INSERT INTO employeeInfo(employeeID, name, designation, dateofJoining, salary, depar tmentName)VALUES(124, 'Alok', 'Analyst', '2020-9-28', 50000, 'Security');
... APPLY BATCH;
cqlsh:employee> SELECT * FROM employeeInfo;
                                  2020-07-12
                                                                        Hardware
                                                                                              Network Engineer
                                                                                                                                            Asish
                                                                                                                                                               40000
                                                                                                  Power Engineer
SDE 1
                                                                                                                                                               20000
                                  2020-06-23
                                                                        Electric
                                                                                                                                            Ajith
                                                                        Software
                                                                                                                                     Divyanshu
                                                                                                                                                               20000
                                  2020-03-21
                                                                                                                Analyst
                                                                                                                                              Alok
                124
                                  2020-09-28
                                                                        Security
                                                                                                                                                               50000
(4 rows)
```

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

```
cqlsh:employee> UPDATE employeeInfo SET name='John', department='Law' WHERE employeeID=121;
cqlsh:employee> UPDATE employeeInfo SET name='John', departmentname='Law' WHERE employeeID=121;
cqlsh:employee> SELECT * FROM employeeInfo;
                  2020-07-12
                                                   Power Engineer
                                                                    Ajith
John
        122
                  2020-06-23
                                     Electric
                                                                              20000
                                         17Law
                  2020-03-21
                                                                              20000
        121
        124
                  2020-09-28
                                      Security
                                                                              50000
(4 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.
- 6. Update the altered table to add project names.

```
cqlsh:employee> ALTER TABLE employeeInfo
           ... ADD projects set<text>;
cqlsh:employee> UPDATE employeeInfo
           ... SET projects={'Information Security','Networks'}
            ... WHERE employeeID=121;
cqlsh:employee> SELECT * FROM employeeInfo;
                                  Hardware | Network Engineer | Asish |
                2020-07-12
               40000
       122
                2020-06-23
                                  Electric
                                               Power Engineer | Ajith |
                 20000
                                                        SDE 1 | John | { 'Information Securit
                2020-03-21
                                       Law
               20000
    'Networks'
                                   Security
                                                      Analyst | Alok |
       124
                2020-09-28
               50000
(4 rows)
```

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

```
cqlsh:employee> INSERT INTO employeeInfo (employeeId,name,designation,dateofJoining,salary,depa
rtmentname)VALUES(126, 'Jane', 'Web Developer', '2020-2-13', 30000, 'IT')USING TTL 15;
cqlsh:employee> SELECT * FROM employeeInfo;
                2020-07-12
                                  Hardware | Network Engineer | Asish
       123
                 40000
                2020-06-23
                                  Electric |
                                               Power Engineer | Ajith |
                 20000
       121
                                                        SDE 1 | John | {'Information Securit
                2020-03-21
                                       Law
                 20000
       126
                2020-02-13
                                        IT |
                                                Web Developer
                                                                Jane
                 30000
       124
                                  Security
                2020-09-28
                                                      Analyst | Alok |
                 50000
(5 rows)
cqlsh:employee>
```