LAB-2

```
Perform the following DB operations using Cassandra.
```

Create a keyspace by name Employee create keyspace employee with replication = {
 ... 'class':'SimpleStrategy',
 ... 'replication_factor':1};
cqlsh> use employee;

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

create table employee_info(emp_id int, emp_name text, designation text, date_of_joining timestamp, salary double, dept_name text, PRIMARY KEY(emp_id));

3. Insert the values into the table in batch

begin batch insert into
employee_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name)
values (1,'Prema','CEO','2022-06-23',70000,'Overall') insert into
employee_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name)
values (12,'Sahana','CTO','2022-06-25',50000,'Developer') insert into employee_info(e
mp_id,emp_name,designation,date_of_joining,salary,dept_name) values
(121,'Pratiksha','ABC','2022-06-25',80000,'Developer') insert into
employee_info(emp_id,emp_name,designa
tion,date_of_joining,salary,dept_name)values (112,'Pooja','CTO','2022-0625',50000,'Developer') apply batch;
cqlsh:employee> select * from employee_info;

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

```
cqlsh:employee> update employee_info
            ... set emp name = 'Jayshree', dept name='Sales'
            ... where emp_id=112;
cqlsh:employee> select * from employee_info;
  p_id | date_of_joining
                                              Overall
                                                                   CEO
     1 2022-06-22 18:30:00.000000+0000
                                                                                       70000
   121 | 2022-06-24 18:30:00.000000+0000
112 | 2022-06-24 18:30:00.000000+0000
                                                                   ABC | Pratiksha
                                                                                        80000
                                             Developer
                                                  Sales
                                                                   СТО
                                                                           Jayshree
    12 | 2022-06-24 18:30:00.000000+0000 | Developer |
                                                                                        50000
                                                                   сто
                                                                             Sahana
```

5. Sort the details of Employee records based on salary

- 6. Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee. alter table employee_info add project_names set<text>;
- 7. Update the altered table to add project names.

```
:employee> update employee_info set project_names = project_names + {'Project1','p2'} where emp_id =1;
cqlsh:employee> select * from employee_info;
 emp_id | date_of_joining
                                                                                               Prema | {'Project1', 'p2'}
            2022-06-22 18:30:00.000000+0000 | Overall | 2022-06-24 18:30:00.000000+0000 | Developer |
                                                                         CEO
                                                                                                                                       70000
                                                                                           Pratiksha
            2022-06-24 18:30:00.000000+0000
                                                        Developer
                                                                                                                                       80000
            2022-06-24 18:30:00.000000+0000
                                                                                                                                       50000
                                                        Developer
                                                                                  сто |
                                                                                               Pooia
            2022-06-24 18:30:00.000000+0000 Developer
                                                                                  СТО
(4 rows)
cqlsh:employee> update employee_info set project_names = project_names + {'q1','q2'} where emp_id =121; cqlsh:employee> update employee_info set project_names = project_names + {'s1','s2'} where emp_id =112; cqlsh:employee> update employee_info set project_names = project_names + {'m1','m2'} where emp_id =12;
cqlsh:employee> select * from employee_info;
 emp_id | date_of_joining
                                                                                             Prema | {'Project1', 'p2'}
ratiksha | {'q1', 'q2'}
Pooja | {'s1', 's2'}
       1 | 2022-06-22 18:30:00.000000+0000 | Overall |
                                                                                                                                       70000
                                                                                CEO
                                                        Developer
            2022-06-24 18:30:00.000000+0000
                                                                                  ABC
                                                                                           Pratiksha
                                                                                                                                       80000
            2022-06-24 18:30:00.000000+0000
                                                         Developer
                                                                                   СТО
                                                                                                                                       50000
            2022-06-24 18:30:00.000000+0000 | Developer |
                                                                                   сто І
                                                                                                                   { 'm1',
                                                                                               Sahana
```

8. Create a TTL of 15 seconds to display the values of Employee