Nikhil S N 6B bda lab cassandra

Program 1. Perform the following DB operations using Cassandra.

1. Create a key space by name Employee.

```
cqlsh> CREATE KEYSPACE rcb WITH replication={'class':'SimpleStrategy','replication_factor':1};
cqlsh> describe keyspace
Not in any keyspace.
cqlsh> describe rcb
```

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

```
cqlsh> create table rcb.employee_Info(emp_id int primary key,emp_name text,designation text,date_of_joining timestamp,salary double,dept_name text);
cqlsh> select * from rcb.employee_info;
emp_id | date_of_joining | dept_name | designation | emp_name | salary
```

Insert the values into the table in batch.

```
cqlsh> begin batch insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary,dept_name)values(1, 'nitish' , 'manager' , '2021-06-03' ,1500000, 'software');apply batch;
cqlsh> select * from rcb.employee_info;

| dept_name | designation | emp_name | salary

| 1 | 2021-06-02 18:30:00.000000+00000 | software | manager | mitish | 1.5e+06

| cqlsh> begin batch | insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(2, 'tarum', 'team leader', '2021-05-07', 1500078, 'testing');
| dept_name | begin batch | insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(3, 'prem', 'memes', '2022-06-02', 15000089, 'dataanalyse');
| maintename | insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(2, 'tarum', 'team leader', '2021-05-07', 1500078, 'testing');
| desin batch | insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(2, 'tarum', 'team leader', '2021-05-07', 1500078, 'testing');
| insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(2, 'tarum', 'team leader', '2021-05-07', 1500078, 'testing');
| insert into rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(3, 'prem', 'memes', '2022-06-09', 1500078, 'teracing');
| apply batch;
| cqlsh> select * from rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(3, 'prem', 'memes', '2022-06-09', 1500078, 'teracing');
| apply batch;
| cqlsh> select * from rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(3, 'prem', 'memes', '2022-06-09', 1500078, 'teracing');
| apply batch;
| cqlsh> select * from rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_dept_name)values(3, 'prem', 'memes', '2022-06-09', 1500078, 'teracing');
| apply batch;
| cqlsh> select * from rcb.employee_info(emp_id,emp_name_designation_date_of_joining_salary_de
```

4. Update Employee name and Department of Emp-Id 2.

```
cqlsh> update rcb.employee info SET emp name='rama',dept name='buisness' where emp id=2;
cqlsh> select * from rcb.employee info;
                                        | dept_name | designation | emp_name | salary
  np_id | date_of_joining
                                           software
     1 2021-06-02 18:30:00.000000+0000
                                                         manager
                                                                     nitish
                                                                                 1.5e+06
     2 | 2021-05-06 18:30:00.000000+0000
                                           buisness
                                                     team leader
                                                                       rama | 1.5001e+06
     3 2022-06-08 18:30:00.000000+0000
                                                                       prem | 1.5005e+06
                                           tracing
                                                            memes
(3 rows)
```

5. Sort the details of Employee records based on salary.

```
cqlsh> create table rcb.employee(emp_id int,emp_name text,designation text,date_of_joining timestamp,salary double,dept_name text,primary key(emp_id,salary));
cqlsh> begin batch insert into rcb.employee(emp id,emp name,designation,date of joining,salary,dept name)values(2, 'tarun','team leader','2021-05-07',1500,'testing'); insert into rcb.employee info(emp id,e
mp_name,designation,date_of_joining,salary,dept_name)values(3,'prem','memes','2022-06-09',150,'tracing'); apply batch;
cqlsh> select * from rcb.employee;
 CodeLite salary | date_of_joining
    2 | 1500 | 2021-05-06 18:30:00.000000+0000 | testing | team leader | tarun
(1 rows)
cqlsh> begin batch
  ... insert into rcb.employee info(emp_id,emp_name,designation,date_of_joining,salary,dept_name)values(1,'nitish','hr','2021-05-07',15000,'software');
  ... insert into rcb.employee_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name)values(3,'prem','leader','2021-05-07',113,'memes');
  ... apply batch;
cqlsh> select * from rcb.employee;
    2 | 1500 | 2021-05-06 18:30:00.000000+0000 | testing | team leader | tarun
(1 rows)
cqlsh> begin batch
 ... insert into rcb.employee(emp_id,emp_name,designation,date_of_joining,salary,dept_name)values(1, 'nitish', 'hr', '2021-05-07',15000, 'software'); insert into rcb.employee(emp_id,emp_name,designation,dat
e_of_joining,salary,dept_name)values(3,'prem','leader','2021-05-07',113,'memes'); apply batch;
cqlsh> select * from rcb.employee;
          15000 | 2021-05-06 18:30:00.000000+0000 | software |
           1500 | 2021-05-06 18:30:00.000000+0000 |
            113 | 2021-05-06 18:30:00.000000+0000
```

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.

7. Update the altered table to add project names.

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