1. Create a key space by name Employee

```
bmsce@bmsce-Precision-T1700:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> CREATE KEYSPACE employee111 WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
cqlsh> use employee111;
```

2.Create a column family by name Employee-Info with attributes Emp\_Id Primary Key, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept\_Name

```
[cqlsn 5.0.1 | cassandra 3.11.4 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
cqlsh> CREATE KEYSPACE employee111 WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
cqlsh> use employee111;
cqlsh:employee111> CREATE TABLE Employee111_info(emp_id int primary key,emp_name text,designation text,date_of_joining timestamp,salary int,dept_name text);
```

3.Insert the values into the table in batch

```
cqlsh:employee111> begin batch insert into employee111_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (1,'Muskan','Manager','2022-04-25',3000000,'xyz');
... insert into employee111_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (2,'Prakriti','Account','2022-04-05',370000,'fhn');
... insert into employee111_info(emp_id,emp_name,designation,date_of_joining,salary,dept_name) values (3,'Sakshi','asst engineer','2022-02-03',800000,'qwe');
... apply batch;
cqlsh:employee111> select * from employee111_info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary

1 | 2022-04-24 18:30:00.000000+0000 | xyz | Manager | Muskan | 3000000
2 | 2022-04-04 18:30:00.000000+0000 | fhn | Account | Prakriti | 370000
3 | 2022-02-02 18:30:00.000000+0000 | qwe | asst engineer | Sakshi | 800000
```

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

5. Sort the details of Employee records based on salary

```
cqlsh:employee111> create table emp111(id int, salary int,name text, primary key(id,salary));
cqlsh:employee111> begin batch insert into emp(id,salary,name) values (1,89900,'kjl'); insert into emp(id,salary,name) values (2,70000,'uiu'); apply batch;

cqlsh:employee111> begin batch insert into emp111(id,salary,name) values (1,89900,'kjl'); insert into emp(id,salary,name) values (2,70000,'uiu'); apply batch;

cqlsh:employee111> begin batch insert into emp111(id,salary,name) values (1,89900,'kjl'); insert into emp111(id,salary,name) values (2,70000,'uiu'); apply batch;
cqlsh:employee111> paging off;
bisabled Query paging.
cqlsh:employee111> select * from emp111 where id in (1,2) order by salary;

td | salary | name

2 | 70000 | utu
1 | 89900 | kjl

(2 rows)
```

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.

```
cqlsh:employee111> alter table employee111_info add projects set<text>;
```

7. Update the altered table to add project names.

```
cqlsn:employee111> alter table employee111_inro add projects set<text>;
cqlsh:employee111> update employee111_info set projects=projects+{'ooo','klk'} where emp_id=1;
cqlsh:employee111> update employee111_info set projects=projects+{'yyy'} where emp_id=2;
```