

Perform the following DB operations using Cassandra.

1.Create a keyspace by name Employee

```
create keyspace Employee with replication = {'class':'SimpleStrategy',  
'replication_factor':1};  
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 EmployeeInfo(Emp_Id int primary key, Emp_Name text,  
Designation text, Date_of_Joining timestamp, Salary double, Dept_Name text);
```

3. Insert the values into the table in batch

```
begin batch  
... insert into employeeinfo (emp_id, date_of_joining, dept_name,  
designation, emp_name, salary)  
... values (121, '2024-03-25', 'KSC', 'Intern', 'Arvind', 0)  
... insert into employeeinfo (emp_id, date_of_joining, dept_name,  
designation, emp_name, salary)  
... values (122, '2024-06-01', 'KSC', 'Intern', 'Aravind', 35000)  
... apply batch;
```

emp_id	date_of_joining	dept_name	designation	emp_name	salary
122	2024-05-31 18:30:00.000000+0000	KSC	Intern	Aravind	35000
121	2024-03-24 18:30:00.000000+0000	KSC	Intern	Arvind	0

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

```
update employeeinfo set emp_name='Arvind Ashok', dept_name='Security'  
where emp_id=121;
```

emp_id	date_of_joining	dept_name	designation	emp_name	salary
122	2024-05-31 18:30:00.000000+0000	KSC	Intern	Aravind	35000
121	2024-03-24 18:30:00.000000+0000	Security	Intern	Arvind Ashok	0

5. Sort the details of Employee records based on salary

```
cqlsh:employee> select * from Employee_information where emp_id in (1,2,3)  
order by 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.

```
cqlsh:employee> alter table employee_info add projects set<text>;
```

7. Update the altered table to add project names.

```
cqlsh:employee> update employee_info set  
projects=projects+{'project1','project2','project3'} where emp_id=1;
```

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

```
begin batch  
  
... insert into  
Employee_Info(Emp_id,Emp_name,Date_of_Joining,Salary,Dept_Name)  
values(1,'Khushil','2021-04-23',50000,'CSE') using TTL 15  
  
... apply batch
```