Lab 2

Perform the following DB operations using Cassandra.

- a)Create a keyspace by name Employee
- b) Create a column family by name Employee-Info with attributes Emp_Id Primary Key, Emp_Name, Designation, Date_of_Joining, Salary,Dept_Name
- c) Insert the values into the table in batch
- d) Update Employee name and Department of Emp-Id 121
- e) Sort the details of Employee records based on salary
- f) Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.
- g) Update the altered table to add project names.
- h) Create a TTL of 15 seconds to display the values of Employees.

```
varsha28@Ubuntu1:-/apache-cassandra-5.0.% cd bin
varsha28@Ubuntu1:-/apache-cassandra-5.0.4/binS ./cqlsh
Connection error: ('Unable to connect to any servers', ('127.0.0.1:9042': ConnectionRefusedError(111, "Tried connecting to [('127.0.
0.1', 9042)]. Last error: Connection refused")])
varsha28@Ubuntu1:-/apache-cassandra-5.0.4/binS cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 5.0.4 | CQL spec 3.4.7 | Native protocol v5]
Use HELP for help.
cqlsh CARTE KEYSPACE Employee WITH REPLICATION=('class':'SimpleStrategy', 'replication_factor':1);
cqlsh DESCRIBE KEYSPACES;

system_virtual_schema system_auth system employee
system_schema system_auth system_distributed system_traces

cqlsh SELECT * FROM system_schema.keyspaces;

keyspace_name | durable_writes | replication

system_auth | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '1')
system_schema | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '3')
system_itraces | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '2')
employee | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '2')
employee | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '1')

(6 rows)
cqlsh USE employee;
cqlsh:employee | True | ('class': 'org.apache.cassandra.locator.simpleStrategy', 'replication_factor': '1')
... destgmation TEXT,
... salary DOUBLE,
... deptname TEXT
... salary DOUBLE,
... deptname TEXT
... slary DOUBLE,
... deptname TeX
```

```
cqlsh:employee> BEGIN BATCH

... INSERT INTO empinfo(empid, empname, designation, dateofjoining, salary, deptname)

... VALUES(121, 'Aarohi Shirke', 'Developer', '2020-01-15', 55000, 'IT');

... INSERT INTO empinfo(empid, empname, designation, dateofjoining, salary, deptname)

... VALUES(122, 'Netl Sawant', 'Manager', '2018-03-10', 75000, 'HR');

... INSERT INTO empinfo(empid, empname, designation, dateofjoining, salary, deptname)

... VALUES(123, 'Sharayu Shivalkar', 'Analyst', '2021-07-22', 50000, 'Finance');

... VAPLY BATCH;

cqlsh:employee> UPDATE empinfo

... SET empname='Aarohi Sawant', deptname='R&D'

... WHERE empid=121;

cqlsh:employee> SELECT * FROM empinfo;

empid | dateofjoining | deptname | designation | empname | salary

123 | 2021-07-22 | Finance | Analyst | Sharayu Shivalkar | 50000

122 | 2018-03-10 | HR | Manager | Netl Sawant | 75000

121 | 2020-01-15 | R&D | Developer | Aarohi Sawant | 55000

(3 rows)

cqlsh:employee> ALTER TABLE empinfo ADD projects SET <TEXT>;

cqlsh:employee> SELECT * FROM empinfo;

empid | dateofjoining | deptname | designation | empname | projects | salary

123 | 2021-07-22 | Finance | Analyst | Sharayu Shivalkar | null | 50000

122 | 2018-03-10 | HR | Manager | Netl Sawant | null | 75000

123 | 2021-07-22 | Finance | Analyst | Sharayu Shivalkar | null | 50000

124 | 2020-01-15 | R&D | Developer | Aarohi Sawant | null | 55000

(3 rows)

cqlsh:employee> UPDATE empinfo | Netl Sawant | null | 55000

Cqlsh:employee> UPDATE empinfo | Netl Sawant | null | 55000
```