## LABORATORY PROGRAM – 2 Perform the following DB operations using Cassandra

## **Ouestions:**

- 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

```
(3 rows)
cqlsh:employee> CREATE TABLE IF NOT EXISTS Employee By Dept (
               ... Dept_Name TEXT,
               ... Dept_Name TEXT,
... Salary DOUBLE,
... Emp_Id INT,
... Emp_Name TEXT,
... Designation TEXT,
... Date_of_Joining DATE,
... PRIMARY KEY (Dept_Name, Salary, Emp_Id)
...) WITH CLUSTERING ORDER BY (Salary DESC, Emp_Id ASC);
vees BEGIN BATCH
cqlsh:employee> BEGIN BATCH
               ... INSERT INTO Employee_By_Dept (Dept_Name, Salary, Emp_Id, Emp_Name, Designation, Date_of_Joining)
... VALUES ('HR', 90000, 121, 'John Smith', 'Manager', '2018-01-01');
               ... INSERT INTO Employee_By_Dept (Dept_Name, Salary, Emp_Id, Emp_Name, Designation, Date_of_Joining)
... VALUES ('IT', 75000, 122, 'Alice Smith', 'Developer', '2019-05-21');
                ... INSERT INTO Employee_By_Dept (Dept_Name, Salary, Emp_Id, Emp_Name, Designation, Date_of_Joining)
... VALUES ('IT', 65000, 123, 'Rahul Roy', 'Analyst', '2020-07-15');
... APPLY BATCH;
cqlsh:employee> SELECT * FROM Employee By Dept WHERE Dept Name = 'IT';
 (2 rows)
id | date_of_joining | dept_name | designation | emp_name | projects
                                                                                                                                  salary
  | 123 | 2020-07-15 | IT | Analyst | Rahul Roy | null | 65000 | 122 | 2019-05-21 | IT | Developer | Alice Smith | null | 75000 | 121 | 2018-01-01 | Finance | Manager | John Smith | {'ERP System', 'HR Portal'} | 90000
(3 rows)
```