## DAY 4

Lab program- Week 4 Perform the following DB operations using Cassandra. 1.Create a keyspace by name Employee CREATE KEYSPACE Employee WITH REPLICATION = { 'class': 'SimpleStrategy', 'replication factor': 1}; cqlsh> CREATE KEYSPACE Employee WITH REPLICATION ={ 'class': 'SimpleStrategy', 'replication\_factor': 1}; cqlsh> 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 IF NOT EXISTS Employee Info ( Emp\_Id INT PRIMARY KEY, Emp Name TEXT, Designation TEXT, Date of Joining DATE, Salary DECIMAL, Dept Name TEXT cqlsh:employee> CREATE TABLE IF NOT EXISTS Employee\_Info ( Emp\_Id INT PRIMARY KEY, Emp Name TEXT, Designation TEXT, Date\_of\_Joining DATE, Salary DECIMAL, Dept Name TEXT 3. Insert the values into the table in batch **BEGIN BATCH** INSERT INTO Employee\_Info (Emp\_Id, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept Name) VALUES (101, 'John Doe', 'Manager', '2023-01-15', 50000, 'IT') INSERT INTO Employee Info (Emp Id, Emp Name, Designation, Date of Joining, Salary, Dept\_Name) VALUES (102, 'Jane Smith', 'Developer', '2023-02-20', 45000, 'IT') INSERT INTO Employee\_Info (Emp\_Id, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept Name) VALUES (121, 'Alice Johnson', 'Analyst', '2023-03-10', 55000, 'HR')

INSERT INTO Employee\_Info (Emp\_Id, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept\_Name)

VALUES (103, 'Michael Johnson', 'QA Engineer', '2023-04-05', 48000, 'IT')

INSERT INTO Employee\_Info (Emp\_Id, Emp\_Name, Designation, Date\_of\_Joining, Salary, Dept\_Name)

VALUES (104, 'Emily White', 'HR Manager', '2023-05-20', 60000, 'HR') APPLY BATCH;

```
cqlsh:employee> BEGIN BATCH
                              INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
VALUES (101, 'John Doe', 'Manager', '2023-01-15', 50000, 'IT')
                              INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name)
                              VALUES (102, 'Jane Smith', 'Developer', '2023-02-20', 45000, 'IT')
                             INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name) VALUES (121, 'Alice Johnson', 'Analyst', '2023-03-10', 55000, 'HR')
                             INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name) VALUES (103, 'Michael Johnson', 'QA Engineer', '2023-04-05', 48000, 'IT')
                             INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name) VALUES (104, 'Emily White', 'HR Manager', '2023-05-20', 60000, 'HR')
                  ... APPLY BATCH;
cqlsh:employee> select * from Employee Info;
            | date_of_joining | dept_name | designation | emp_name
                                                  HR | Analyst | Alice Johnson | 55000

HR | HR Manager | Emily White | 60000

IT | Developer | Jane Smith | 45000

IT | Manager | John Doe | 50000

IT | QA Engineer | Michael Johnson | 48000
      121
                     2023-03-10 HR
      104
                      2023-05-20
                                          IT |
                     2023-02-20 |
2023-01-15 |
2023-04-05 |
      102 I
      101 I
```

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

update Employee\_Info set Emp\_Name= 'Alice Brown', Dept\_Name= 'Finance' where Emp\_Id=121;

```
cqlsh:employee> update Employee_Info set Emp_Name= 'Alice Brown', Dept_Name= 'Finance' where Emp_Id=121; cqlsh:employee> select * from Employee_Info;

emp_id | date_of_joining | dept_name | designation | emp_name | salary

121 | 2023-03-10 | Finance | Analyst | Alice Brown | 55000 |
104 | 2023-05-20 | HR | HR Manager | Emily White | 60000 |
102 | 2023-02-00 | IT | Developer | Jane Smith | 45000 |
101 | 2023-01-15 | IT | Manager | John Doe | 50000 |
103 | 2023-04-05 | IT | QA Engineer | Michael Johnson | 48000 |

(5 rows)
```

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