POOJA K

1BM19CS111

Lab 1

Program 1. Perform the following DB operations using Cassandra.

1. Create a key space by name 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

3. Insert the values into the table in batch

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

5. Sort the details of Employee records based on salary

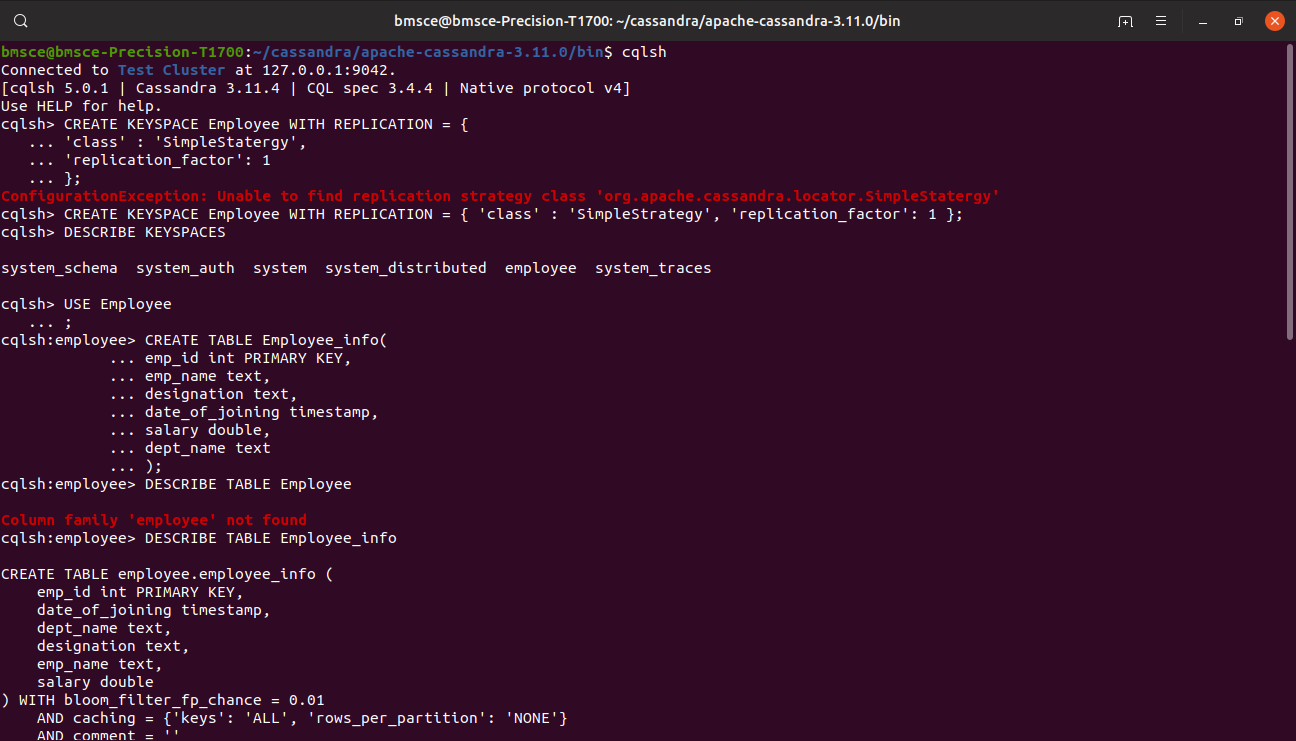
6. Alter the schema of the table Employee\_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.

7. Update the altered table to add project names.

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

1.

CREATE KEYSPACE Employee WITH REPLICATION = { 'class' : 'SimpleStrategy', 'replication\_factor': 1 };

cqlsh> DESCRIBE KEYSPACES

system\_schema system\_auth system system\_distributed employee system\_traces

2.CREATE TABLE Employee\_info(

... emp\_id int PRIMARY KEY,

... emp\_name text,

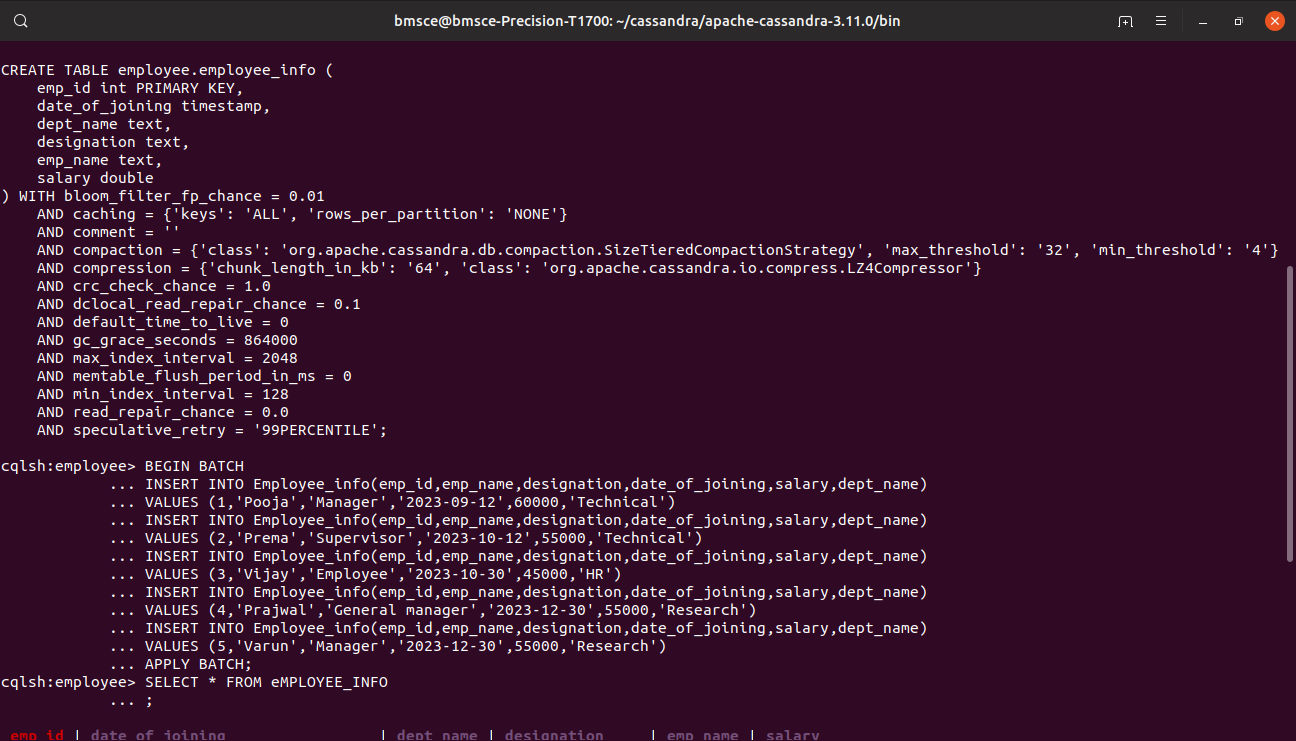
... designation text,

... date\_of\_joining timestamp,

... salary double,

... dept\_name text

... );



3) BEGIN BATCH

... INSERT INTO Employee\_info(emp\_id,emp\_name,designation,date\_of\_joining,salary,dept\_name)

... VALUES (1,'Pooja','Manager','2023-09-12',60000,'Technical')

... INSERT INTO Employee\_info(emp\_id,emp\_name,designation,date\_of\_joining,salary,dept\_name)

... VALUES (2,'Prema','Supervisor','2023-10-12',55000,'Technical')

... INSERT INTO Employee\_info(emp\_id,emp\_name,designation,date\_of\_joining,salary,dept\_name)

... VALUES (3,'Vijay','Employee','2023-10-30',45000,'HR')

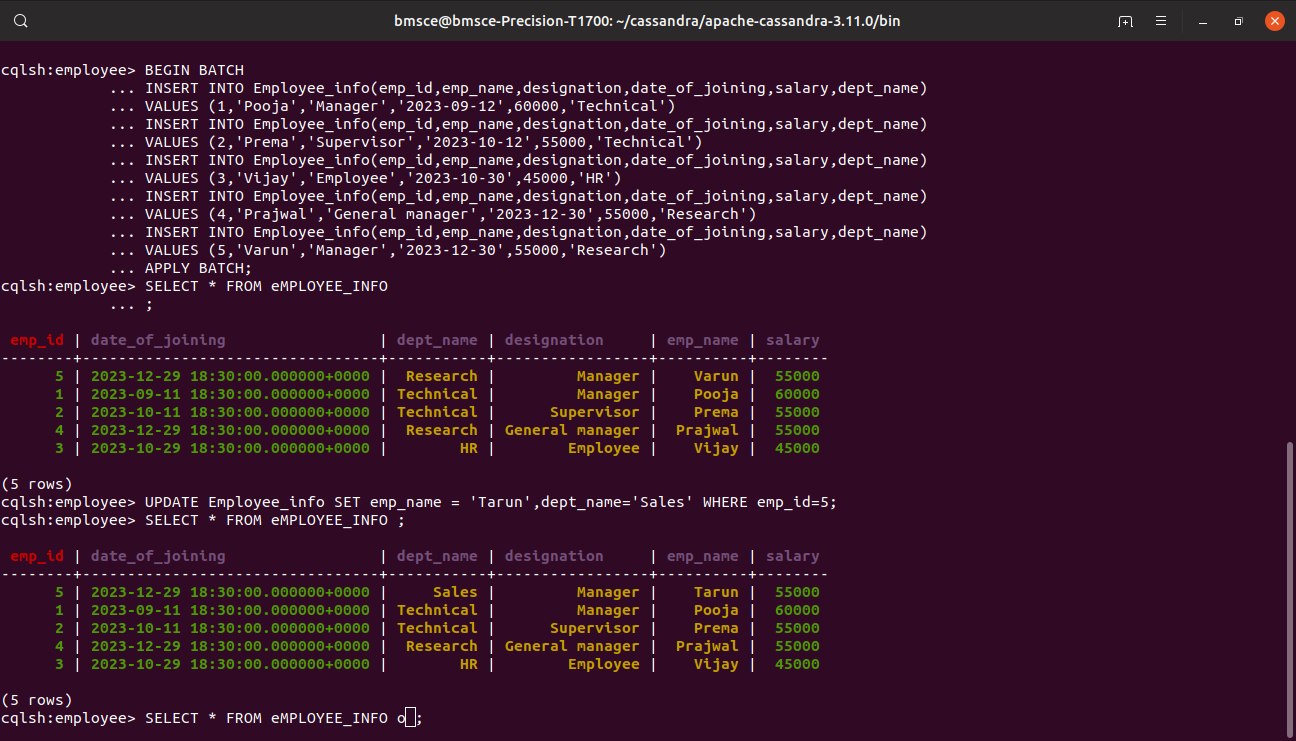
... INSERT INTO Employee\_info(emp\_id,emp\_name,designation,date\_of\_joining,salary,dept\_name)

... VALUES (4,'Prajwal','General manager','2023-12-30',55000,'Research')

... INSERT INTO Employee\_info(emp\_id,emp\_name,designation,date\_of\_joining,salary,dept\_name)

... VALUES (5,'Varun','Manager','2023-12-30',55000,'Research')

... APPLY BATCH;



4). SELECT \* FROM eMPLOYEE\_INFO

... ;

emp\_id | date\_of\_joining | dept\_name | designation | emp\_name | salary

--------+---------------------------------+-----------+-----------------+----------+--------

5 | 2023-12-29 18:30:00.000000+0000 | Research | Manager | Varun | 55000

1 | 2023-09-11 18:30:00.000000+0000 | Technical | Manager | Pooja | 60000

2 | 2023-10-11 18:30:00.000000+0000 | Technical | Supervisor | Prema | 55000

4 | 2023-12-29 18:30:00.000000+0000 | Research | General manager | Prajwal | 55000

3 | 2023-10-29 18:30:00.000000+0000 | HR | Employee | Vijay | 45000

5.)

UPDATE Employee\_info SET emp\_name = 'Tarun',dept\_name='Sales' WHERE emp\_id=5;

cqlsh:employee> SELECT \* FROM eMPLOYEE\_INFO ;

emp\_id | date\_of\_joining | dept\_name | designation | emp\_name | salary

--------+---------------------------------+-----------+-----------------+----------+--------

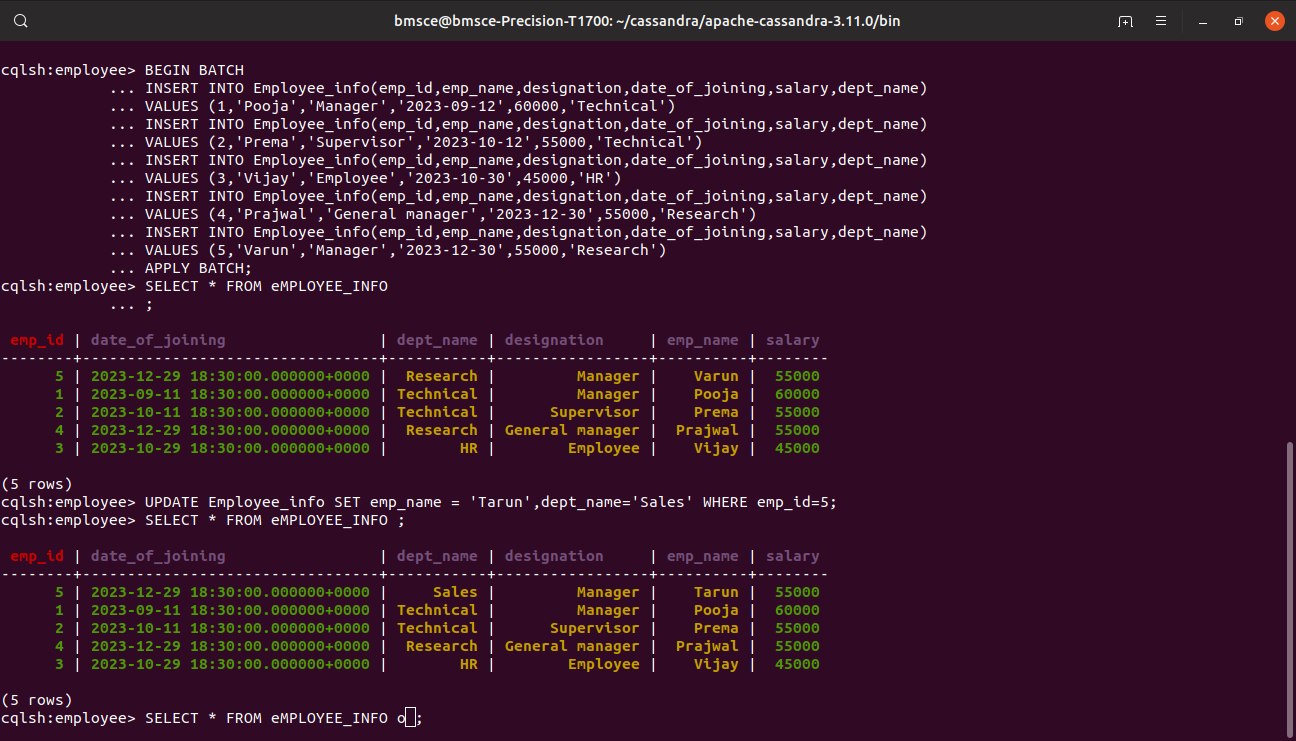
5 | 2023-12-29 18:30:00.000000+0000 | Sales | Manager | Tarun | 55000

1 | 2023-09-11 18:30:00.000000+0000 | Technical | Manager | Pooja | 60000

2 | 2023-10-11 18:30:00.000000+0000 | Technical | Supervisor | Prema | 55000

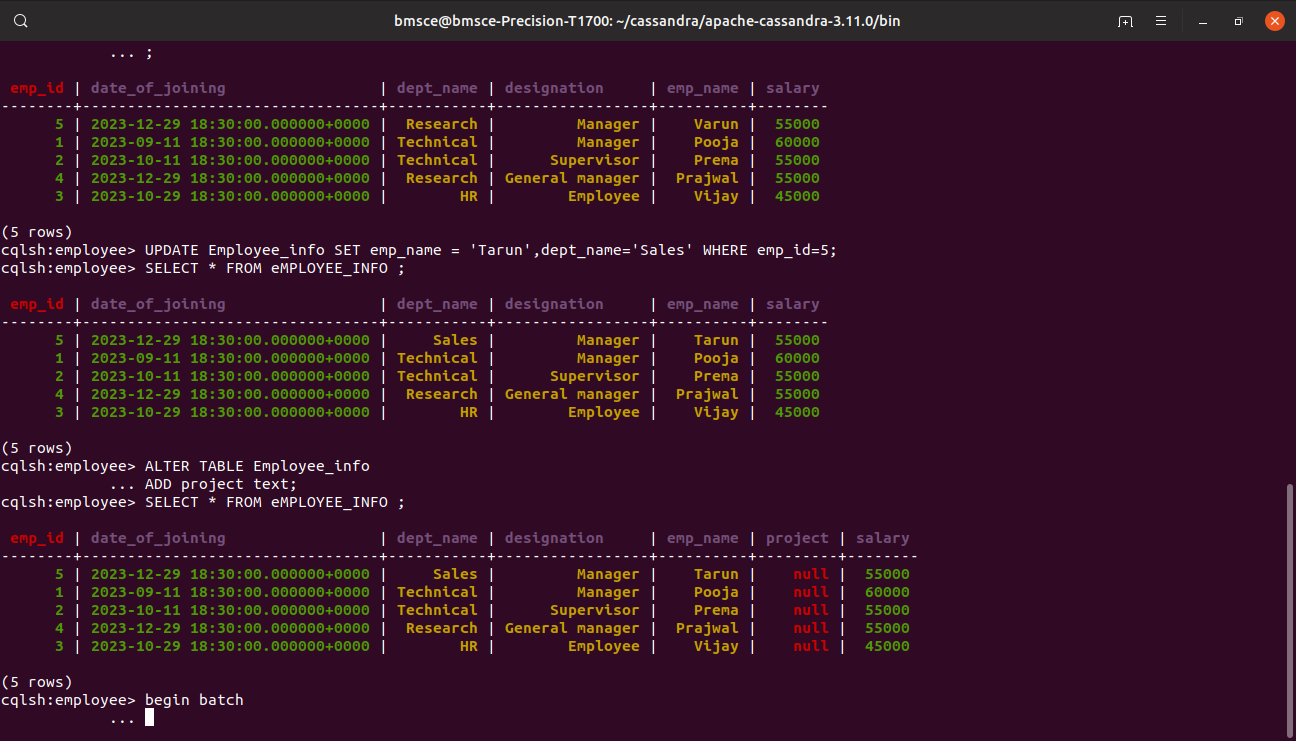
4 | 2023-12-29 18:30:00.000000+0000 | Research | General manager | Prajwal | 55000

3 | 2023-10-29 18:30:00.000000+0000 | HR | Employee | Vijay | 45000



6)ALTER TABLE Employee\_info

... ADD project text;



7)

begin batch

... update employee\_info set project = 'abc' where emp\_id=1

... update employee\_info set project = 'dfc' where emp\_id=2

... update employee\_info set project = 'dfc' where emp\_id=3

... update employee\_info set project = 'xyz' where emp\_id=4

... update employee\_info set project = 'rqz' where emp\_id=5

... ;

... apply batch;

cqlsh:employee> SELECT \* FROM eMPLOYEE\_INFO ;

emp\_id | date\_of\_joining | dept\_name | designation | emp\_name | project | salary

--------+---------------------------------+-----------+-----------------+----------+---------+--------

5 | 2023-12-29 18:30:00.000000+0000 | Sales | Manager | Tarun | rqz | 55000

1 | 2023-09-11 18:30:00.000000+0000 | Technical | Manager | Pooja | abc | 60000

2 | 2023-10-11 18:30:00.000000+0000 | Technical | Supervisor | Prema | dfc | 55000

4 | 2023-12-29 18:30:00.000000+0000 | Research | General manager | Prajwal | xyz | 55000

3 | 2023-10-29 18:30:00.000000+0000 | HR | Employee | Vijay | dfc | 45000

