## **EMPLOYEE->**

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.8 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh> CREATE KEYSPACE Employee2
  ... WITH replication = {
   ... 'class': 'SimpleStrategy',
        'replication_factor': 1
   ... };
cqlsh>
cqlsh> USE Employee2 ;
cqlsh:employee2> CREATE TABLE Employee_Info (
                 Emp_Id int PRIMARY KEY,
                Emp Name text,
            ... Designation text,
            ... Date_of_Joining date,
            ... Salary decimal,
                 Dept Name text
cqlsh:employee2> BEGIN BATCH
            ... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, S
alary, Dept_Name)
            ... VALUES (121, 'Alice', 'Engineer', '2020-03-01', 60000.00, 'IT');
             ... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, S
alary, Dept_Name)
            ... VALUES (122, 'Bob', 'Manager', '2019-06-15', 75000.00, 'HR');
            ... INSERT INTO Employee_Info (Emp_Id, Emp_Name, Designation, Date_of_Joining, S
alary, Dept_Name)
            ... VALUES (123, 'Charlie', 'Analyst', '2021-01-10', 50000.00, 'Finance');
             ... APPLY BATCH;
cqlsh:employee2> UPDATE Employee_Info
            ... SET Emp_Name = 'Alicia', Dept_Name = 'Research'
            ... WHERE Emp_Id = 121;
cqlsh:employee2> CREATE TABLE Employee Salary Sorted (
                  Dept_Name text,
                 Salary decimal,
            ... Emp_Id int,
            ... Emp_Name text,
            ... Designation text,
            ... Date_of_Joining date,
... PRIMARY KEY (Dept_Name, Salary)
             ... ) WITH CLUSTERING ORDER BY (Salary DESC);
cqlsh:employee2> ALTER TABLE Employee_Info
             ... ADD Projects set<text>;
cqlsh:employee2> UPDATE Employee_Info
            ... SET Projects = {'Project C'}
            ... WHERE Emp_Id = 122;
cqlsh:employee2> UPDATE Employee_Info
```

```
cqlsh:employee2> UPDATE Employee Info
            ... USING TTL 15
            ... SET Emp_Name = 'Temporary', Dept_Name = 'Temp'
            ... WHERE Emp Id = 124;
cqlsh:employee2> INSERT INTO Employee Info (Emp Id, Emp Name, Designation, Date of Joining, S
alary, Dept_Name)
            ... VALUES (124, 'TempUser', 'Intern', '2025-04-08', 30000.00, 'TempDept')
            ... USING TTL 15;
cqlsh:employee2> SELECT * FROM Employee_Info;
 emp_id | date_of_joining | dept_name | designation | emp_name | projects
salary
                                                                                   null
             2021-01-10 | Finance | Analyst | Charlie |
 50000.00
  122
                                        Manager | Bob |
             2019-06-15
                                HR
                                                                          {'Project C'}
75000.00
  121
             2020-03-01 | Research | Engineer | Alicia | {'Project A', 'Project B'} |
60000.00
(3 rows)
cqlsh:employee2>
```

## LIBRARY->

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.8 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh> CREATE KEYSPACE Library
   ... WITH replication = {
... 'class': 'SimpleStrategy',
... 'replication_factor': 1
... Stud_Id int,
              ... Book_Name text,
... Counter_Value counter,
... PRIMARY KEY (Stud_Id, Book_Name)
cqlsh:library> CREATE TABLE Library_Info (
... Stud_Id int PRIMARY KEY,
                    Stud_Name text,
Book_Name text,
              ... Book_Id text,
... Date_of_Issue date
cqlsh:library> BEGIN BATCH
               ... INSERT INTO Library_Info (Stud_Id, Stud_Name, Book_Name, Book_Id, Date_of_Issu
e)
               ... VALUES (112, 'Ravi', 'BDA', 'B001', '2025-04-07');
              ... UPDATE Book_Counter
              ... SET Counter_Value = Counter_Value + 1
... WHERE Stud_Id = 112 AND Book_Name = 'BDA';
              ... APPLY BATCH;
cqlsh:library> INSERT INTO Library_Info (
                       Stud_Id,
                        Stud Name,
                        Book_Name,
Book_Id,
Date_of_Issue
              ... VALUES (
                          'Ravi',
                         'BDA',
'B001',
                         '2025-04-07'
cqlsh:library> UPDATE Book_Counter
              ... SET Counter_Value = Counter_Value + 1
... WHERE Stud_Id = 112 AND Book_Name = 'BDA';
```

```
cqlsh:library> SELECT * FROM Library Info;
   ud_id | book_id | book_name | date_of_issue | stud_name
    112 | B001 | BDA | 2025-04-07 | Ravi
(1 rows)
cqlsh:library> UPDATE Book Counter
          ... SET Counter_Value = Counter Value + 1
          ... WHERE Stud_Id = 112 AND Book_Name = 'BDA';
d_id | book_name | counter_value
    112 | BDA |
(1 rows)
cqlsh:library> COPY Library_Info TO 'library_info.csv' WITH HEADER = TRUE;
Using 16 child processes
Starting copy of library.library info with columns [stud id, book id, book name, date of issu
e, stud_name].
Processed: 1 rows; Rate: 12 rows/s; Avg. rate:
                                                    12 rows/s
1 rows exported to 1 files in 0.121 seconds.
บ rows เmported from I files in บ.365 seconds (บ รหipped).
cqlsh:library> COPY Library_Info (Stud_Id, Book_Id, Book_Name, Date_of_Issue, Stud_Name)
          ... FROM '/home/bmscecse/library_info.csv'
           ... WITH HEADER = TRUE;
Using 16 child processes
Starting copy of library.library info with columns [stud id, book id, book name, date of issu
e, stud_name].
Processed: 3 rows; Rate:
                           6 rows/s; Avg. rate:
                                                      8 rows/s
3 rows imported from 1 files in 0.365 seconds (0 skipped).
cqlsh:library> COPY Library_Info (Stud_Id, Book_Id, Book_Name, Date_of_Issue, Stud_Name)
          ... TO '/home/bmscecse/library_info_export.csv'
           ... WITH HEADER = TRUE;
Using 16 child processes
Starting copy of library.library_info with columns [stud_id, book_id, book_name, date_of_issu
e, stud_name].
Processed: 3 rows; Rate: 69 rows/s; Avg. rate: 69 rows/s
3 rows exported to 1 files in 0.076 seconds.
cqlsh:library>
cqlsh:library>
```