## **BDA LAB 4**

1. Create a key space by name Library

```
cqlsh> create keyspace Library2 with replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh> describe Library2
CREATE KEYSPACE library2 WITH replication = {'class': 'SimpleStrategy', 'replication_factor': '1'} AND durable_
writes = true;
```

2. Create a column family by name Library-Info with attributes Stud\_Id Primary Key, Counter\_value of type Counter, Stud\_Name, Book-Name, Book-Id, Date\_of\_issue

```
cqlsh:library2> create table library_info(Stud_id int,Counter_value counter,Stud_Name text,Book_N
ame text,Book_id text,Date_of_issue timestamp,Primary key(Stud_id,Stud_Name,Book_Name,Book_id,Dat
e_of_issue));
```

3. Insert the values into the table in batch

```
cqlsh:library2> update library_info set Counter_value=Counter_value+1 where Stud_Name='Roy' and S
tud_id=1 and Book_Name='BDA' and Book_id='101' and Date_of_issue='2022-04-22';
cqlsh:library2> update library_info set Counter_value=Counter_value+1 where Stud_Name='Tony' and
Stud_id=2 and Book_Name='CNS' and Book_id='102' and Date_of_issue='2022-04-16';
cqlsh:library2> update library_info set Counter_value=Counter_value+1 where Stud_Name='Prem' and
Stud id=3 and Book Name='BDA' and Book id='103' and Date of issue='2022-02-15';
cqlsh:library2> update library info set Counter value=Counter value+1 where Stud Name='Prem' and
Stud_id=3 and Book_Name='BDA' and Book_id='106' and Date_of_issue='2022-02-20';
cqlsh:library2> select * from library info
cqlsh:library2> select * from library_info;
         | stud_name | book_name | book_id | date_of_issue
                                                                                   counter_value
                                         101 | 2022-04-21 18:30:00.000000+0000 |
                               BDA
                  Roy
       2
                               CNS
                                         102 | 2022-04-15 18:30:00.000000+0000
                 Tony
       3
                 Prem
                               BDA
                                          103 | 2022-02-14 18:30:00.000000+0000
       3
                 Prem
                               BDA
                                          106 | 2022-02-19 18:30:00.000000+0000
(4 rows)
```

4. Display the details of the table created and increase the value of the counter

```
cqlsh:library2> update library_info set Counter_value=Counter_value+1 where Stud_Name='Roy' and S
tud_id=1 and Book_Name='BDA' and Book_id='101' and Date_of_issue='2022-04-22';
cqlsh:library2> select * from library info;
           | stud_name | book_name | book_id | date_of_issue

        Roy
        BDA
        101
        2022-04-21
        18:30:00.000000+0000

        Tony
        CNS
        102
        2022-04-15
        18:30:00.000000+0000

        Prem
        BDA
        103
        2022-02-14
        18:30:00.000000+0000

        Prem
        BDA
        106
        2022-02-19
        18:30:00.000000+0000

         3
(4 rows)
cqlsh:library2> update library_info set Counter_value=Counter_value+1 where Stud_Name='Prem' and
Stud id=3 and Book Name='BDA' and Book id='106' and Date of issue='2022-02-20';
cqlsh:library2> select * from library info;
         d | stud_name | book_name | book_id | date_of_issue | counter_value
    1
                   Roy | BDA | 101 | 2022-04-21 18:30:00.000000+0000 |
                                 CNS | 102 | 2022-04-15 18:30:00.000000+00000 | BDA | 103 | 2022-02-14 18:30:00.000000+00000 | BDA | 106 | 2022-02-19 18:30:00.000000+00000 |
                    Tony |
                    Prem
         3
(4 rows)
```

5. Write a guery to show that a student with id 112 has taken a book "BDA" 2 times.

6. Export the created column to a csv file

## 7. Import a given csv dataset from local file system into Cassandra column family

```
cqlsh:library2> create table library_info1(Stud_id int,Counter_value counter,Stud_Name text,Book_
Name text,Book_id text,Date_of_issue timestamp,Primary key(Stud_id,Stud_Name,Book_Name,Book_id,Da
te_of_issue));
cqlsh:library2> copy library_info1(stud_id,stud_name,book_name,book_id,date_of_issue,counter_valu
e) from '/home/bmsce/Desktop/bda/lib.csv';
Using 11 child processes
Starting copy of library2.library_info1 with columns [stud_id, stud_name, book_name, book_id, dat
e_of_issue, counter_value].
Processed: 7 rows; Rate:
                                  13 rows/s; Avg. rate:
                                                                 18 rows/s
7 rows imported from 1 files in 0.384 seconds (0 skipped).
cqlsh:library2> select * from library_info1;
      td | stud_name | book_name | book_id | date_of_issue
       1
                                 BDA
                                            101 | 2022-04-21 18:30:00.000000+0000
                   Roy
                                            102 | 2022-04-15 18:30:00.000000+0000

201 | 2022-02-28 18:30:00.000000+0000
                  Tony |
                                 CNS
                 Arjun
                                 BDA
                                            201 2022-03-14 18:30:00.000000+0000
                 Arjun |
                                 BDA
                                 BDA
                  raj |
                  Prem
                                 BDA
                                            103 | 2022-02-14 18:30:00.000000+0000
                  Prem
                                 BDA
                                            106 | 2022-02-19 18:30:00.000000+0000 |
(7 rows)
```