NIKHIL S N
1BM19CS102

Program 2:

1 Create a key space by name Library

```
cqlsh> create keyspace library with replication={'class':'SimpleStrategy','replication_factor':2};
cqlsh> use library;
```

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:library> create table library_info(stud_id int ,counter_value counter, stud_name text,book_n
ame text,book_id int,date_of_issue timestamp,primary key(stud_id,stud_name,book_name,book_id,date_
of_issue));
```

3. Insert the values into the table in batch

```
cqlsh:library> update library_info set counter_value = counter_value+1 where stud_id = 1 and stud_
name='nikhil'and book_name='bda'and book_id=1001 and date_of_issue='2022-04-06';
```

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

5. Write a query to show that a student with id 112 has taken a book “BDA” 2 times.

```
cqlsh:library> update library_info set counter_value = counter_value+1 where stud_id = 112 and stu
d_name='Nikhil S N'and book_name='ml'and book_id=1111 and date_of_issue='2022-04-12';
cqlsh:library> update library_info set counter_value = counter_value+1 where stud_id = 22 and stud
_name='Nithin'and book_name='oomd'and book_id=1121 and date_of_issue='2022-04-18';
cqlsh:library> select * from library_info;

 stud_id | stud_name  | book_name | book_id | date_of_issue                   | counter_value
---------+------------+-----------+---------+---------------------------------+---------------
       1 |     nikhil |       bda |    1001 | 2022-04-05 18:30:00.000000+0000 |             1
      22 |     Nithin |      oomd |    1121 | 2022-04-17 18:30:00.000000+0000 |             1
     112 | Nikhil S N |        ml |    1111 | 2022-04-11 18:30:00.000000+0000 |             1

(3 rows)
cqlsh:library> update library_info set counter_value = counter_value+1 where stud_id = 1 and stud_
name='nikhil'and book_name='bda'and book_id=1001 and date_of_issue='2022-04-06';
cqlsh:library> select * from library_info;

 stud_id | stud_name  | book_name | book_id | date_of_issue                   | counter_value
---------+------------+-----------+---------+---------------------------------+---------------
       1 |     nikhil |       bda |    1001 | 2022-04-05 18:30:00.000000+0000 |             2
      22 |     Nithin |      oomd |    1121 | 2022-04-17 18:30:00.000000+0000 |             1
     112 | Nikhil S N |        ml |    1111 | 2022-04-11 18:30:00.000000+0000 |             1

(3 rows)
cqlsh:library>
```

6. Export the created column to a csv file

```
cqlsh:library> copy library_info(stud_id,stud_name,book_name,book_id,date_of_issue,counter_value)
to '/home/bmsce/bdalab4/libraryinfo.csv';
Using 11 child processes

Starting copy of library.library_info with columns [stud_id, stud_name, book_name, book_id, date_o
f_issue, counter_value].
Processed: 3 rows; Rate:      15 rows/s; Avg. rate:      15 rows/s
3 rows exported to 1 files in 0.210 seconds.
cqlsh:library>
```

	Standard	Standard	Standard	Standard	Standard	Standard
1	22	Nithin	oomd	1121	2022-04-17 18:30:00.000+0000	1
2	112	Nikhil S N	ml	1111	2022-04-11 18:30:00.000+0000	1
3	1	nikhil	bda	1001	2022-04-05 18:30:00.000+0000	2

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

```
cqlsh:library> create table library_info2(stud_id int,counter_value counter,stud_name text, book_n
ame text,book_id int,date_of_issue timestamp,primary key(stud_id,stud_name,book_name,date_of_issue
,book_id));
cqlsh:library> copy library_info2(stud_id,stud_name,book_name,book_id,date_of_issue,counter_value)
from '/home/bmsce/bdalab4/libraryinfo.csv';
Using 11 child processes

Starting copy of library.library_info2 with columns [stud_id, stud_name, book_name, book_id, date_
of_issue, counter_value].
Processed: 3 rows; Rate:       4 rows/s; Avg. rate:       7 rows/s
3 rows imported from 1 files in 0.448 seconds (0 skipped).
cqlsh:library> select * from library_info2;

 stud_id | stud_name  | book_name | date_of_issue                   | book_id | counter_value
---------+------------+-----------+---------------------------------+---------+---------------
       1 |     nikhil |       bda | 2022-04-05 18:30:00.000000+0000 |    1001 |             2
      22 |     Nithin |      oomd | 2022-04-17 18:30:00.000000+0000 |    1121 |             1
     112 | Nikhil S N |        ml | 2022-04-11 18:30:00.000000+0000 |    1111 |             1

(3 rows)
cqlsh:library>
```