1 Create a key space by name Library

```
cqlsh> create keyspace lab2_library with replication={'class':'SimpleStrategy','replication_factor':1};
cqlsh> use lab2_library;
cqlsh:lab2_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:lab2_library> create table library_info(stud_id int,counter_value counter,stud_name text,book_id int
,date_of_issue timestamp,primary key(stud_id,stud_name,book_id,date_of_issue));
cqlsh:lab2_library> A
```

3. Insert the values into the table in batch

```
cqlsh:lab2_library> update library_info set counter_value=counter_value + 2 where stud_id=2 and stud_name=
'Pankaj' and book_id=145 and date_of_issue='2022-08-04';
cqlsh:lab2_library> select * from library_info;

 stud_id | stud_name | book_id | date_of_issue                   | counter_value
---------+-----------+---------+---------------------------------+---------------
       2 |    Pankaj |     145 | 2022-08-03 18:30:00.000000+0000 |             2
```

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

```
cqlsh:lab2_library> update library_info set counter_value=counter_value + 2 where stud_id=2 and stud_name=
'Pankaj' and book_id=145 and date_of_issue='2022-08-04';
cqlsh:lab2_library> select * from library_info;

 stud_id | stud_name | book_id | date_of_issue                   | counter_value
---------+-----------+---------+---------------------------------+---------------
       2 |    Pankaj |     145 | 2022-08-03 18:30:00.000000+0000 |             4
```

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

```
cqlsh:lab2_library> update library_info set counter_value=counter_value + 2 where stud_id=112 and stud_nam
e='Preetham' and book_id=145 and date_of_issue='2022-08-04';
cqlsh:lab2_library> select counter_value from library_info where stud_id=112;

 counter_value
---------------
             2
```

6. Export the created column to a csv file

```
cqlsh:lab2_library> copy library_info(stud_id,stud_name,book_id,date_of_issue,counter_value)to 'lib.csv';
Using 7 child processes

Starting copy of lab2_library.library_info with columns [stud_id, stud_name, book_id, date_of_issue, counter_v
alue].
Processed: 2 rows; Rate:       9 rows/s; Avg. rate:       9 rows/s
2 rows exported to 1 files in 0.250 seconds.
```

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

```
cqlsh:lab2_library> create table library_info2(stud_id int,counter_value counter,stud_name text,book_id int,da
te_of_issue timestamp,primary key(stud_id,stud_name,book_id,date_of_issue));
cqlsh:lab2_library> copy library_info2(stud_id,stud_name,book_id,date_of_issue,counter_value)from 'lib.csv';
Using 7 child processes

Starting copy of lab2_library.library_info2 with columns [stud_id, stud_name, book_id, date_of_issue, counter_
value].
Processed: 2 rows; Rate:       4 rows/s; Avg. rate:       6 rows/s
2 rows imported from 1 files in 0.356 seconds (0 skipped).
cqlsh:lab2_library> select * from library_info;

 stud_id | stud_name | book_id | date_of_issue                   | counter_value
---------+-----------+---------+---------------------------------+---------------
       2 |    Pankaj |     145 | 2022-08-03 18:30:00.000000+0000 |             4
     112 |  Preetham |     145 | 2022-08-03 18:30:00.000000+0000 |             2

(2 rows)
cqlsh:lab2_library> select * from library_info2;

 stud_id | stud_name | book_id | date_of_issue                   | counter_value
---------+-----------+---------+---------------------------------+---------------
       2 |    Pankaj |     145 | 2022-08-03 18:30:00.000000+0000 |             4
     112 |  Preetham |     145 | 2022-08-03 18:30:00.000000+0000 |             2
cqlsh:lab2_library>
```