1 Create a key space by name Library

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

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

3.
```
cqlsh:library> create table Library_Info ( Stud_id int ,Counter_value counter, Stud_Name text , Book_
Name text,Book_Id int, Date_of_issue timestamp,primary key(Stud_id,Stud_Name,Book_Name,Book_Id,Date_o
f_issue));
```

Insert the values into the table in batch

4.
```
cqlsh:library> update Library_Info set Counter_value = Counter_value+1 where Stud_id = 1 and Stud_Nam
e = 'Prem Sai' and Book_Name = 'Big Data Analysis' and Book_Id = 1000 and Date_of_issue='2022-04-29';
cqlsh:library> select * from Library_INfo;
```

stud_id	stud_name	book_name	book_id	date_of_issue	counter_value
1	Prem Sai	Big Data Analysis	1000	2022-04-28 18:30:00.000000+0000	1

```
(1 rows)
cqlsh:library> update Library_Info set Counter_value = Counter_value+1 where Stud_id = 112 and Stud_N
ame = 'Tarun' and Book_Name = 'OOMD' and Book_Id = 1020 and Date_of_issue='2022-05-04';
cqlsh:library> update Library_Info set Counter_value = Counter_value+1 where Stud_id = 112 and Stud_N
ame = 'Tarun' and Book_Name = 'BDA' and Book_Id = 1100 and Date_of_issue='2022-03-06';
cqlsh:library> update Library_Info set Counter_value = Counter_value+1 where Stud_id = 112 and Stud_N
ame = 'Tarun' and Book_Name = 'BDA' and Book_Id = 1100 and Date_of_issue='2022-05-04';
cqlsh:library> select * from Library_INfo;
```

stud_id	stud_name	book_name	book_id	date_of_issue	counter_value
1	Prem Sai	Big Data Analysis	1000	2022-04-28 18:30:00.000000+0000	1
112	Tarun	BDA	1100	2022-03-05 18:30:00.000000+0000	1
112	Tarun	BDA	1100	2022-05-03 18:30:00.000000+0000	1
112	Tarun	OOMD	1020	2022-05-03 18:30:00.000000+0000	1

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

5.
```
cqlsh:library> update Library_Info set Counter_value = Counter_value+1 where Stud_id = 112 and Stud_N
ame = 'Tarun' and Book_Name = 'BDA' and Book_Id = 1100 and Date_of_issue='2022-04-30';
cqlsh:library> select * from Library_INfo;
```

stud_id	stud_name	book_name	book_id	date_of_issue	counter_value
1	Prem Sai	Big Data Analysis	1000	2022-04-19 18:30:00.000000+0000	1
112	Tarun	BDA	1100	2022-04-29 18:30:00.000000+0000	2

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

6.
```
cqlsh:library> select * from Library_Info where Stud_Id =112;
```

stud_id	stud_name	book_name	book_id	date_of_issue	counter_value
112	Tarun	BDA	1100	2022-04-29 18:30:00.000000+0000	2

```
cqlsh:library> copy library_Info(Stud_Id,Stud_Name,Book_Name,Book_Id,date_of_issue,counter_value) to
'/home/bmsce/BDA/lib.csv';
Using 11 child processes

Starting copy of library.library_info with columns [stud_id, stud_name, book_name, book_id, date_of_i
ssue, counter_value].
Processed: 2 rows; Rate:      14 rows/s; Avg. rate:      14 rows/s
2 rows exported to 1 files in 0.153 seconds.
```

Export the created column to a csv file

7.
```
cqlsh:library> copy library_Info2(Stud_Id,Stud_Name,Book_Name,Book_Id,date_of_issue,counter_value) fr
om  '/home/bmsce/BDA/lib.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: 2 rows; Rate:       3 rows/s; Avg. rate:       5 rows/s
2 rows imported from 1 files in 0.401 seconds (0 skipped).
cqlsh:library> select * from library_info2;
```

stud_id	stud_name	book_name	book_id	date_of_issue	counter_value
1	Prem Sai	Big Data Analysis	1000	2022-04-19 18:30:00.000000+0000	1
112	Tarun	BDA	1100	2022-04-29 18:30:00.000000+0000	2

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