- II. Perform the following DB operations using Cassandra.
 - 1.Create a keyspace by name

Library

cqlsh> create keyspace Library with replication={'class':'SimpleStrategy','replication_factor':'3'};

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(student_id int, counter_value counter,student_name text,book_name text, book_id int ,date_of issue date,primary key(student_id,student_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 student_id=112 and student_name='Mohan
and book_id=220 and date_of_issue='2020-2-2';
cqlsh:library> update library_info set counter_value=counter_value+1 where student_id=112 and student_name='Mohan' and book_name='BDA and book_id=220 and date_of_issue='2020-6-4'; cqlsh:library> select * from library_info;
cqlsh:library> update library_info set counter_value=counter_value+1 where student_id=120 and student_name='varshitha' and book_name=
8DA'and book_id=220 and date_of_issue='2020-2-2';
cqlsh:library> update library_info set counter_value=counter_value+1 where student_id=121 and student_name='Harshitha' and book_name=
8DA'and book_id=220 and date_of_issue='2020-2-2';
 of and book_la=20 and date_of_133ue= 2020 72.)

(Jsh:library> update library_info set counter_value=counter_value+1 where student_id=122 and student_name='Kavitha' and book_name='D'

'and book_id=221 and date_of_issue='2020-2-2';
rqlsh:library> update library_info set counter_value=counter_value+1 where student_id=123 and student_name='Hitha' and book_name='ML'a
nd book_id=222 and date_of_issue='2020-2-2';
nqlsh:library> select * from library_info;
  student_id | student_name | book_name | book_id | date_of_issue | counter_value
                                                                                            2020-02-02
                                                           ML
DSR
                                                                            222
221
                                  Hitha
                                                                                            2020-02-02
                            Harshitha
                                                                                            2020-02-02
                                                                                            2020-02-02
2020-06-04
                                   Mohan
                                                           BDA
BDA
                                                                             220
220
```

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

```
The Account of the counter value of the counter val
 cqlsh:library> update library_info set counter_value=counter_value+1 where student_id=112 and student_name='Mohan' and book_name='BDA
'and book_id=220 and date_of_issue='2020-2-2';
cqlsh:library> update library_info set counter_value=counter_value+1 where student_id=112 and student_name='Mohan' and book_name='BDA
'and book_id=220 and date_of_issue='2020-6-4';
     qlsh:library> select * from library_info;
     student_id | student_name | book_name | book_id | date_of_issue | counter_value
                                            120
                                                                                             varshitha
                                                                                                                                                                                              BDA
                                                                                                                                                                                                                                                                                                      2020-02-02
                                                                                                                                                                                             ML
DSR
                                                                                                                                                                                                                                                     221
220
220
                                                                                                      Kavitha
                                                                                                                                                                                                                                                                                                        2020-02-02
                                                                                                                                                                                                                                                                                                        2020-02-02
                                                                                                                                                                                                                                                                                                        2020-02-02
                                                                                                                  Mohan
                                                                                                                  Mohan
```

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

```
qlsh:library> select * from Library_info where student_id=112 and student_name='Mohan' and book_name='BDA'and book_id=220 ;
student_id | student_name | book_name | book_id | date_of_issue | counter_value
                                  BDA |
BDA |
      112 |
112 |
                    Mohan
                                             220
                                                      2020-02-02
                                             220
                    Mohan
                                                      2020-06-04
```

Export the created column to a csv file

```
cqlsh:library> copy library_info(student_id, counter_value,student_name, book_name, book_id,date_of_issue) to 'library.csv';
Using 3 child processes
Starting copy of library.library_info with columns [student_id, counter_value, student_name, book_name, book_id, date_of_issue].
Processed: 6 rows; Rate: 12 rows/s; Avg. rate: 4 rows/s
5 rows exported to 1 files in 1.727 seconds.
```

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

```
alsh:library> create table Library_output(student_id int, counter_value counter,student_name text,book_name text, book_id int ,date_o
      regish: library copy Library_output from library.csv with HEADER=TRUE; date_of_issue ));
cqlsh:library> copy Library_output from library.csv with HEADER=TRUE;
    Improper copy command.
cqlsh:library> copy Library_output from 'library.csv' with HEADER=TRUE;
Using 3 child processes
Starting copy of library.library_output with columns [student_id, student_name, book_name, book_id, date_of_issue, counter_value].

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), will retry later, attempt 1 of 5

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), will retry later, attempt 2 of 5

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), will retry later, attempt 3 of 5

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), will retry later, attempt 4 of 5

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), will retry later, attempt 4 of 5

Failed to import 5 rows: SyntaxException - line 1:66 mismatched input '-02' expecting K_WHERE (....library_output SET counter_value=co
unter_value+2020[-02]...), given up_after 5 attempts

bb96859b\cassandra\cluster.py", line 2850, in shutdown
self._connection.close()
    bb96859b\cassandra\cluster.py", line 2850, in shutdown
self._connection.close()
self._connection.close()
file "C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 373, in close
AsyncoreConnection.create_timer(0, partial(asyncore.dispatcher.close, self))
AsyncoreConnection.create_timer(0, partial(asyncore.dispatcher.close, self))
File "C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 335, in create_timer
File "C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 335, in create_timer
File "C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 335, in create_timer
C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 335, in create_timer
C:\Program Files\apache-cassandra-3.11.8\bin\..\lib\cassandra-driver-internal-only-3.11.0-bb96859b.zip\cassandra-driver-3.11.0-bb96859b\cassandra\io\asyncorereactor.py", line 335, in create_timer
C:\Progra
                        self. connection.close()
```

				date_of_issue	
120	varshitha	BDA	220	2020-02-02	2
123	Hitha	ML	222	2020-02-02	2
122	Kavitha	DSR	221	2020-02-02	2
121	Harshitha	BDA	220	2020-02-02	2
112	Mohan	BDA	220	2020-02-02	2
112	Mohan	BDA	220	2020-06-04	2

(6 rows)