8/04/25.

Lab4.

1) create a keyspace named library.

create keyspace library
with replication = {'class' : 'Simple strategy', 'replication':1}

2) create a column family library-Info.
we cannot mix counter and non counter columns.
create Table library.library-Info (
  stud-Id int Primary key,
  stud-Name text,
  Book-Name text,
  Book-Id int,
  Date-of-Issue date.

create table library.Book-counter (
  stud-Id int,
  Book-Name text,
  Counter-value counter
  PRIMARY KEY (stud-id, Book-Name))

3) Insert values into the table using Batch

Begin Batch
Insert Into library.library-Info (Stud-Id, Stud-Name,
Book-Name, Book-Id, Date-of-Issue)
values (112, 'John', 'BDA', 101, '2025-04-06');
Insert Into library.library-Info (Stud-Id, Stud-Name,
Book-Name, Book-Id, Date-of-Issue)
values (113, 'Alice', 'DBMS', 102, '2025-05-09');

Apply Batch.

Begin Batch
update library.Book-Counter
set counter-value= counter-value+1
where stud-Id=112 and Book-Name='BDA'
update library.Book-counter
set counter-value= counter-value+1
where stud-Id=112 and Book-Name='BDA'
Apply Batch

4) Display details and increase counter.

select * from library.library-Info
select * from library.Book-counter

update library.Book-counter
set counter-value = counter-value+1
where stud-Id=112 and Book-Name='BDA'.

5) Query to show student 112 has taken BDA 2 times.

select counter-value from library.Book-counter
where stud-Id=112 and Book-Name='BDA'

6) Export column to a csv file.

copy library.library-info to 'library-info.csv'
with Header=True;

7) Import csu file to cassandra.

copy Library.Library_Info (Stud_Id, Stud_Name, Book_Name, Book_Id, Date_of_Issue) from 'Library_Info.CSU' with header = True.