Perform the following DB operation using
Cassandra.

① create a Keyspace by name Library

```
CREATE KEYSPACE library
WITH  REPLICATION = {
    'class' : 'simple strategy',
    'replication-facter' : 1 };
```

② create a column famtey by name library
info with attribute Stud_id primary Key

Counter-value of type Counter,
Stud_Name , Book_Name , Book_Id ,
Date_of-issue

```
CREATE  TABLE Library. Library_info (
    Stud_Id   INT PRIMARY KEY
    Counter-value  Counter,
    Stud_Name Text ,
    Book_Name Text ,
    Date_Of_Issue TIME_STAMP
);
```

③ counter table.

```
CREATE  TABLE Book_counter (
    Stud_Id, int
    Book_Name text,
    Counter-value counter,
    PRIMARY KEY (Stud_Id, Book_Name)
);
```

3& Insert the Values into table in batch

```
BEGIN BATCH
INSERT INTO Library_Info (Stud_ID, Stud_name,
    Book_Name, Book_Id, Date_of-issue)
    values (112, 'John Doe', 'BDA', 'BK101',
                '2025-04-01');
INSERT INTO library_Info (Stud_Id, Stud_
    Name, Book_Name, BookId, Date-of-issue)
VALUES (113, 'Alice Smith', 'ML', 'BKL60',
                '2025-04-02');
VALUES (114, 'Charlee Brown', 'BDA', 'BK101',
                '2005-04-03').
VALUES (116, 'Dairy Ray', 'DS', 'BKL04',
                '2025-04-06');
APPLY BATCH;
```

4b Display the details of the table created
. & increase the value of counter.

```
BEGIN BATCH
UPDATE Book_Count-USE, count-U-value =
    count-U-value + 1 WHERE Stud_Id = 110 &
    Book_Name = 'BDA';
                          = 112 AND 'BDA';
                          = 113 AND 'ML',
                          = 114 AND 'MI',
                          = 115 AND 'BDA'
                          = 116 AND 'DS';
```

5) write a query to show that a student
with 112 has taken a book "BDA"
2 times.

SELECT # FROM Book_Counter.
WHERE stud_Id = 112 AND Book_Name = 1 BDA '

output

Stud_id	book_name	counter_vau
112	BDA	2

6) Export the created column to a CSV
file cqlsh -e " COPY library_Info TO
library_Info_Export.csv ' WITH HEADER
=True "

SELECT # FROM library_info;

stud_id	book_id	bookname	date_of_y	stm
114	BK 103	A I	2025-04-03	Bablu
113	102	ya L	2025-04-02	Alicesm
116	104	DS	2025-04-06	Daihry
112	101	BDA	2025-04-05	John ay
115	101	BDA	2025-04-04	charlie

S. Prase