

### 1. Create a key space by name Library

```
create keyspace Library with replication = {'class': 'SimpleStrategy',  
  'replication_factor': 1};
```

### 2. Create a column family by name Library-Info with attributes Stud\_Id Primary Key, Counter\_value of type Counter,

```
create table Library_info(Stud_id int, COUNTER_value counter,  
  Stud_name varchar, Book_name varchar, Book_id int, doi date, primary  
  key (Stud_id, Stud_name, Book_id, Book_id, doi));
```

### 3. Insert the values into the table in batch

```
update Library_info set Counter_value = Counter_value + 1 where  
  Stud_id = 112 and Stud_name = 'Arvind' and 'Book_id'='123' and  
  'doi'='2024-06-09'
```

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

```
update library_info set Counter_value = Counter_value + 1 where  
  Stud_id=112 and Stud_name='Arvind' and Book_name='abc' and  
  Book_id='123' and doi='2024-05-01';
```

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

```
select counter_value as borrow_count from Library_info where  
  Stud_id=112 and Book_id=123
```

### 6. Export the created column to a csv file

```
cqlsh:library> COPY library.library_info (Stud_id,Book_id,Counter_value,Stud_name,Book_name,date_of_1  
issue) TO '/home/bmsce/CASSANDRA-NAMAN/data.csv' WITH HEADER = TRUE;  
Using 11 child processes  
  
Starting copy of library.library_info with columns [stud_id, book_id, counter_value, stud_name, book_  
name, date_of_issue].  
Processed: 1 rows; Rate:      6 rows/s; Avg. rate:      6 rows/s  
1 rows exported to 1 files in 0.176 seconds.
```

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

```
cqlsh:library> COPY library.library_info (stud_id,book_id,counter_value,stud_name,book_name,date_of_issue) FROM '/home/bmsce/CASSANDRA-NAMAN/data.csv' WITH HEADER = TRUE;
Using 11 child processes

Starting copy of library.library_info with columns [stud_id, book_id, counter_value, stud_name, book_name, date_of_issue].
Processed: 1 rows; Rate:      2 rows/s; Avg. rate:      3 rows/s
1 rows imported from 1 files in 0.379 seconds (0 skipped);
```