

LIBRARY

1. Create a keyspace by name Library

```
CREATE KEYSPACE library WITH REPLICATION={ 'class' : 'SimpleStrategy',  
'replication_factor' : 1};  
USE library;
```

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

```
create table library_info(stud_id int, counter_value Counter, stud_name  
text,book_name text, date_of_issue timestamp, book_id int, PRIMARY  
KEY(stud_id,stud_name,book_name,date_of_issue,book_id));
```

3. Insert the values into the table in batch

```
UPDATE library_info SET counter_value = counter_value + 1 WHERE stud_id  
= 111 and stud_name = 'SAM' and book_name = 'ML' and date_of_issue =  
'2020-10-11'and book_id = 200;
```

```
UPDATE library_info SET counter_value = counter_value + 1 WHERE stud_id  
= 112 and stud_name = 'SHAAN' and book_name = 'BDA' and date_of_issue =  
'2020-09-21'and book_id = 300;
```

```
UPDATE library_info SET counter_value = counter_value + 1 WHERE  
stud_id = 113 and stud_name = 'AYMAN' and book_name = 'OOMD' and  
date_of_issue = '2020-04-01'and book_id = 400;
```

```
SELECT * FROM library_info;
```

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 = 'SHAAN' and book_name = 'BDA' and date_of_issue = '2020-09-21' and book_id = 300;
```

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

```
SELECT * FROM library_info WHERE stud_id = 112;
```

6. Export the created column to a csv file

COPY

```
Library_Info(Stud_Id,Stud_Name,Book_Name,Book_Id,Date_Of_Issue,Counter_value) TO 'e:\libraryInfo.csv';
```

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

```
create table library_info2(stud_id int, counter_value Counter, stud_name text, book_name text, date_of_issue timestamp, book_id int, PRIMARY KEY(stud_id, stud_name, book_name, date_of_issue, book_id));
```

COPY

```
library_info2(stud_id, stud_name, book_name, book_id, date_of_issue, counter_value) FROM 'e:\libraryInfo.csv';
```