## LAB-4

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Perform the following DB operations using Cassandra:

1 Create a key space by name Library

```
cqlsh> CREATE KEYSPACE LIBRARY WITH replication = {'class':'SimpleStrategy','replication_factor':3};
cqlsh> Use LIBRARY;
cqlsh: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.

eqishrilibrary» create table library infajstud id int, counter value Counter, stud name text, book name text, date of issue timestamp, book id int, PRIMARY REMistud id, stud name, book name, date of issue, book id int, PRIMARY REMistud id, stud name, book name, date of issue, book id int, PRIMARY REMISTUD id, stud name, book nam

```
cqlsh:library> select * from library.library_info;

stud_id | stud_name | book_name | date_of_issue | book_id | counter_value

(0 rows)
```

3. Insert the values into the table in batch

colsh:library> UPDATE library info SET counter\_value = counter\_value + 1 MHERE stud\_td = 111 and stud\_name = "SAA" and book\_name = "ML" and date\_of\_issue = "2000-18-11" and book\_id = 200; colsh:library> UPDATE library info SET counter\_value = counter\_value + 1 MHERE stud\_id = 112 and stud\_name = "SHAM" and book\_name = "00A" and date\_of\_issue = "2020-69-21" and book\_id = 300; colsh:library> UPDATE library info SET counter\_value = counter\_value + 1 MHERE stud\_id = 113 and stud\_name = "ANNAM" and book\_name = "00A" and date\_of\_issue = "2020-69-21" and book\_id = 400;

```
cqlsh:library> select * from library.library_info;

stud_td | stud_name | book_name | date_of_issue | book_id | counter_value

111 | SAM | ML | 2020-10-10 18:30:00.000000+0000 | 200 | 1

113 | AYMAN | 00MD | 2020-03-31 18:30:00.000000+0000 | 400 | 1

112 | SHAAN | BDA | 2020-09-20 18:30:00.000000+0000 | 300 | 1

(3 rows)
```

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

colish:library> UROATE library info SET counter value = counter value + 1 MHSRE stud id = 112 and stud name = 'SHANO' and book name = 'BOA' and date of issue = '2004-89-21'and book id = 308;

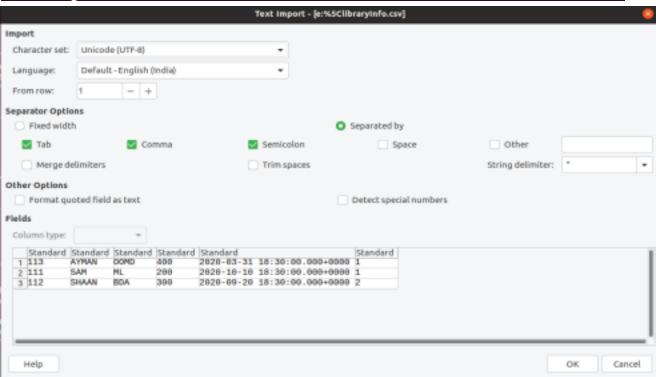
5. Write a guery to show that a student with id 112 has taken a book "BDA" 2 times.

6. Export the created column to a csv file

cqlsh:library> COPY Library\_Info(Stud\_Id,Stud\_Name,Book\_Name,Book\_Id,Oate\_Of\_Issue,Counter\_value) TO 'e:\libraryInfo.csv';
Using 11 child processes

Starting copy of library.library\_info with columns [stud\_id, stud\_name, book\_name, book\_id, date\_of\_issue, counter\_value].

Processed: 3 rows; Rate: 17 rows/s; Avg. rate: 17 rows/s
3 rows exported\_to 1 files in 0.204 seconds.



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

