LIBRARY [Anvitha Gowda K-1BM18CS018]

1.Create a keyspace by name Library

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

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

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

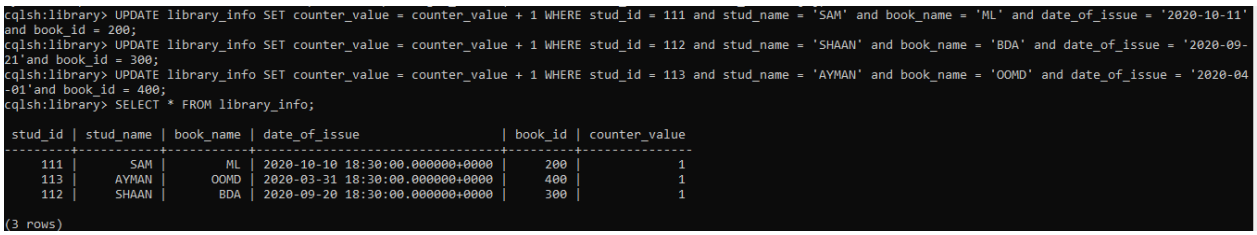
3. Insert the values into the table in batch

UPDATE library_info SET counter_value = counter_value + 1 WHERE stud_id = 111 and stud_name = 'Anvitha' 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 = 'Nikhil’ 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 = 'Likitha' 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 = 'Nikhil' 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;

```
cqlsh:library> 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;
cqlsh:library> SELECT * FROM library_info;

 stud_id | 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 |      OOMD | 2020-03-31 18:30:00.000000+0000 |     400 |             1
     112 |     SHAAN |       BDA | 2020-09-20 18:30:00.000000+0000 |     300 |             2

(3 rows)
cqlsh:library> SELECT * FROM library_info WHERE stud_id = 112;

 stud_id | stud_name | book_name | date_of_issue                   | book_id | counter_value
---------+-----------+-----------+---------------------------------+---------+---------------
     112 |     SHAAN |       BDA | 2020-09-20 18:30:00.000000+0000 |     300 |             2

(1 rows)
```

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';

```
cqlsh:library> COPY library_info2(stud_id,stud_name,book_name,book_id,date_of_issue,counter_value) FROM 'e:\libraryInfo.csv';
Using 3 child processes

Starting copy of library.library_info2 with columns [stud_id, stud_name, book_name, book_id, date_of_issue, counter_value].
```

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';

```
cqlsh:library> 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,s
tud_name,book_name,date_of_issue,book_id));
cqlsh:library> COPY library_info2(stud_id,stud_name,book_name,book_id,date_of_issue,counter_value) FROM 'e:\libraryInfo.csv';
Using 3 child processes

Starting copy of library.library_info2 with columns [stud_id, stud_name, book_name, book_id, date_of_issue, counter_value].
```

```
cqlsh:library> SELECT * FROM library_info2;

 stud_id | 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 |      OOMD | 2020-03-31 18:30:00.000000+0000 |     400 |             1
     112 |     SHAAN |       BDA | 2020-09-20 18:30:00.000000+0000 |     300 |             2

(3 rows)
```