BDA Lab-4

- 1 Create a key space by name 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

- 3. Insert the values into the table in batch
- 4. Display the details of the table created and increase the value of the counter
- 5. Write a query to show that a student with id 112 has taken a book "BDA" 2 times.
- 6. Export the created column to a csv file
- 7. Import a given csv dataset from local file system into Cassandra column family
- 1 Create a key space 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> describe keyspace
not in any beyopace.
cqlsh> USE library;
```

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 text,book_name text, date_of_issue timestamp, book_id int, PRIMARY KEY(stud_id,stud_name,book_name,date_of_issue,book_id));

cqlsh:library> 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,bo
 ok_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;

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 guery 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';

```
cqlsh:library> COPY library_info (stud_id, stud_name , book_name , book_id , date_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_i ssue, counter_value].

Processed: 3 rows; Rate: 18 rows/s; Avg. rate: 18 rows/s
3 rows exported to 1 files in 0.177 seconds.

cqlsh:library>
```

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';-