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## **BDA LAB WEEK 4 CASSANDRA ASSIGNMENT WITH SCREENSHOTS:**

1. Create a key space by name Library

 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

cqish) use library;
cqish:library; cqish:library; oreste table Library\_Info (Stud\_Id int,Counter\_value counter,Stud\_Name text,Book\_Id int,Date\_of\_issue timestamp,PRDWWY NEY(Stud\_Id,Stud\_Name
Sook\_Name,Book\_Id,Date\_of\_issue));
colsh:library> describe table Library\_Info

```
glsh:library> describe table Library_Info
CREATE TABLE library.library_info (
    stud_id int;
    stud_name text,
   book_name text,
    book_id int,
   date_of_issue timestamp,
    counter_value counter,
 PRIMARY KEY (stud_id, stud_name, book_name, book_id, date_of_issue)

NITH CLUSTERING ORDER BY (stud_name ASC, book_name ASC, book_id ASC, date_of_issue ASC)

AND bloom_filter_fp_chance = 0.81

AND caching = {'keys': 'ALL', 'rows_per_partition': 'NOME'}
   AND comment «
   AND compaction = {'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4'}
   AND compression = {"chunk_length_in_kb": "64", "class": "org.apache.cassandra.io.compress.LZ4Compressor"}
   AND crc_check_chance = 1.8
    AND dclocal_read_repair_chance = 0.1
   AND default time to live = 0
    AND gc_grace_seconds = 864800
    AND max_index_interval = 2948
    AND mentable_flush_period_in_ms = 0
    AND min_index_interval = 128
    AND read_repair_chance * 0.8
    AND speculative_retry = '99PERCENTILE';
```

- 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

```
cqlsh:library> copy Library_Info (stud_id,stud_name,book_name,book_id,date_of_issue,counter_value) to 'C:\Users\shara\OneOrive\Documents\Library_Info.csv' with header=true
Using 7 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: 2 rows/s; Avg. rate: 1 rows/s
3 rows exported to 1 files in 3.164 seconds.
```

| À | Α       | В                         | C    | D   | E                       | F | G | Н |
|---|---------|---------------------------|------|-----|-------------------------|---|---|---|
| 1 | stud_id | stud_nam book_nam book_id |      |     | date_of_iscounter_value |   |   |   |
| 2 | 112     | Ramesh                    | BDA  | 102 | 2022-03-1               | 2 |   |   |
| 3 | 1       | Vamshi                    | OOMD | 100 | 2022-04-1               | 1 |   |   |
| 4 | 2       | Ravi                      | CNS  | 101 | 2022-03-1               | 1 |   |   |
| 5 |         |                           |      |     |                         |   |   |   |

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

```
cqlsh:library) create table Library_test(stud_id_int,counter_value counter,stud_name text,book_name_text,book_id_int,date_of_issue_timestamp,primary_key(stud_id,stud_name,book_name,book_id,date_of_issue_of_issue_of_issue_timestamp,primary_key(stud_id,stud_name,book_name,book_name,book_name,book_name,book_name,book_name,book_id,date_of_issue,counter_value) FROM 'C:\Users\shara\OneDrive\Documents\Library_Info.csv' with header=true

Starting_copy_of_library_library_test_with_columns_[stud_id, stud_name, book_name, book_id, date_of_issue, counter_value].

Process_ImportProcess-8: 1 rows/s; Avg. rate: 1 rows/s
```

```
AttributeError: 'NoneType' object has no attribute 'add_timer'
Processed: 3 rows; Rate: 1 rows/s; Avg. rate:
                                                            0 rows/s
3 rows imported from 1 files in 6.260 seconds (0 skipped).
cqlsh:library> select*from Library_test;
 stud_id | stud_name | book_name | book_id | date_of_issue
                                                                                 counter_value
                            COMD
      1 |
                                        100 | 2022-04-17 18:30:00.000000+0000
              Vamshi
                                        101 | 2022-03-14 18:30:00.000000+0000
102 | 2022-03-18 18:30:00.000000+0000
       2
                Ravi
                              CNS
                              BDA
     112
                                                                                                2
              Ramesh
(3 rows)
cqlsh:library>
```