

BDA LAB 4 (CASSANDRA)

1 Create a key space by name Library

```
cqlsh> create keyspace Library1 WITH REPLICATION={'class':'SimpleStrategy','replication_factor':'2'}; 2.
cqlsh> use Library1;
```

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

```
cqlsh:library1> create table Library_info(id int,c_val counter,s_name text,b_name text,b_id int,doi timestamp,primary key(id,s_name,b_name,b_id,doi)); 3.
```

Insert the values into the table in batch

```
cqlsh:library1> update Library_info set c_val=c_val+1 where id=1 and s_name='aruna' and b_name='maths' and b_id=1 and doi='2020-02-23'; 4.
cqlsh:library1> update Library_info set c_val=c_val+1 where id=1 and s_name='ram' and b_name='ccp' and b_id=2 and doi='2020-03-14';
cqlsh:library1> update Library_info set c_val=c_val+1 where id=3 and s_name='raja' and b_name='BDA' and b_id=3 and doi='2020-03-04';
cqlsh:library1> select * from Library_info ;
```

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

```
cqlsh:library1> update Library_info set c_val=c_val+2 where id=4 and s_name='manny' and b_name='CNS' and b_id=4 and doi='2020-05-23'; 5.
cqlsh:library1> select * from Library_info ;
```

id	s_name	b_name	b_id	doi	c_val
1	aruna	maths	1	2020-02-22 18:30:00.000000+0000	1
1	ram	ccp	2	2020-03-13 18:30:00.000000+0000	1
4	manny	CNS	4	2020-05-22 18:30:00.000000+0000	5
3	raja	BDA	3	2020-03-03 18:30:00.000000+0000	1

Write a query to show that a student with id 1.

```
cqlsh:library1> select * from Library_info where id=1 and s_name='aruna' and b_name='maths' and b_id=1; 6.
;
```

id	s_name	b_name	b_id	doi	c_val
1	aruna	maths	1	2020-02-21 18:30:00.000000+0000	2
1	aruna	maths	1	2020-02-22 18:30:00.000000+0000	1

Export the created column to a csv file

```
cqlsh:library1> copy Library_info(id,s_name,b_name,b_id,doi,c_val) to '/home/bmsce/aruna.csv'; 7.
Using 11 child processes
```

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

```
cqlsh:library1> copy Library_info2(id,s_name,b_name,b_id,doi,c_val) from '/home/bmsce/aruna.csv';
Using 11 child processes
```

```
Starting copy of library1.library_info2 with columns [id, s_name, b_name, b_id, doi, c_val].
Processed: 5 rows; Rate:      8 rows/s; Avg. rate:      12 rows/s
5 rows imported from 1 files in 0.429 seconds (0 skipped).
```

```
cqlsh:library1> select * from Library_info2
... ;
```

id	s_name	b_name	b_id	doi	c_val
1	aruna	maths	1	2020-02-21 18:30:00.000000+0000	2
1	aruna	maths	1	2020-02-22 18:30:00.000000+0000	1
1	ram	ccp	2	2020-03-13 18:30:00.000000+0000	1
4	manny	CNS	4	2020-05-22 18:30:00.000000+0000	5
3	raja	BDA	3	2020-03-03 18:30:00.000000+0000	4

(5 rows)