

BDA LAB PROGRAM

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Lab Exercise programs

2) 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

Creation of table and inserting values :

```
cqlsh:library> create table libinfo(std_id int, counter_value counter, book_name text, std_name text, book_id int, PRIMARY KEY(std_id, book_id,book_name,std_name));
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 1 AND book_name='BDA' AND std_name='AKASH' AND book_id=123;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Some clustering keys are missing: dateofissue"
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 1 AND book_name='BDA' AND std_name='AKASH' AND book_id=123;
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 2 AND book_name='NETWORK SECURITY' AND std_name='HASHIKA' AND book_id=132;
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 112 AND book_name='ML' AND std_name='TRIVENI' AND book_id=231;
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 212 AND book_name='OOMD' AND std_name='TRINAYAN' AND book_id=128;
cqlsh:library> update libinfo SET counter_value = counter_value + 1 where std_id = 243 AND book_name='OOMD' AND std_name='ROHAN' AND book_id=458;
cqlsh:library> select * from libinfo;
```

std_id	book_id	book_name	std_name	counter_value
1	123	BDA	AKASH	1
212	128	OOMD	TRINAYAN	1
2	132	NETWORK SECURITY	HASHIKA	1
112	231	ML	TRIVENI	1
243	458	OOMD	ROHAN	1

(5 rows)

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

```
cqlsh:library> update libinfo1 SET counter_value = counter_value + 1 where
cqlsh:library> select * from libinfo1;
```

std_id	book_id	book_name	std_name	counter_value
1	123	BDA	AKASH	1
212	128	OOMD	TRINAYAN	1
2	132	NETWORK SECURITY	HASHIKA	1
112	231	ML	TRIVENI	1
243	458	OOMD	ROHAN	1

(5 rows)

Write a query to show that a student with id 112 has taken a book “BDA” 2 times.

```
cqlsh:library> update libinfo1 SET counter_value = counter_value + 1 where std_id = 112 AND book_name='ML' AND std_name='TRIVENI' AND book_id=231;
cqlsh:library> select * from libinfo1 where std_id = 112;
```

std_id	book_id	book_name	std_name	counter_value
112	231	ML	TRIVENI	2

(1 rows)

Export the created column to a csv file

```
cqlsh:library> copy libinfo1( std_name,std_id,book_id,book_name ) to 'C:\Users\HP\Downloads\TRIVENI.csv';
Using 1 child processes
```

Starting copy of library.libinfo1 with columns [std_name, std_id, book_id, book_name].

```
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
cqlshlib.copyutil.ExportProcess.write_rows_to_csv(): writing row
Processed: 5 rows; Rate: 11 rows/s; Avg. rate: 11 rows/s
5 rows exported to 1 files in 0.479 seconds.
```

