

5/4/25



PAGE:

DATE: / /

lab 5:

1) Create a Keyspace by name Library

→ create Keyspace Library with replication =
{ 'class': 'SimpleStrategy', 'replication_factor': 1 }

2) Create a column family library_info

→ We cannot mix counters and non counter columns

```
create table library.library_info (  
    stud_id int Primary Key,  
    stud_Name text,  
    Book_Name text,  
    Book_id int,  
    Date_of_issue date  
);
```

```
create table library.Book_counters (  
    stud_id int,  
    Book_Name text,  
    counter value counter  
    PRIMARY KEY (stud_id, Book_Name)
```

3) Insert the values into the table in batch

→ Begin Batch

```
Insert into library.library_info (stud_id, stud_Name,  
    Book_Name, Book_id, Date_of_issue)  
values (112, 'John', 'BDA', 101, '2025-04-06')
```

```
Insert into library.library_info (stud_id, stud_Name,  
    Book_Name, Book_id, Date_of_issue)  
values (113, 'Alice', 'DBMS', 102, '2025-05-07')
```

Apply Batch



Begin Batch

update library.Book_counter

set counter_value = counter_value + 1

where stud_id = 112 and Book_Name = 'BDA'

update library.Book_counter

set counter_value = counter_value + 1

where stud_id = 112 and Book Name = 'BDA'

Apply Batch

4) Display details and increase Counter

select * from library.library-info

select * from library.book_counter

update library.Book_counter

set counter_value = counter_value + 1

where stud_id = 112 and Book Name = 'BDA'

5) write a query to show that a student ^{with} id 112 has taken a book 'BDA' 2 times.

→ select counter_value from library.Book_counter
where stud_id = 112 and Book Name = 'BDA'

6) Export the created column to a csv file

copy library.library-info To 'library-info.csv'
with header = TRUE;



7 Import csv into column family

→ copy library.library_info FROM 'library_info.csv'
with headers = TRUE;
(41)

Import csv file to cassandra

copy library.library_info (stud_id, stud Name,
Book Name, Book id, Date of issue)
from 'library_info.csv' with headers = TRUE