# Step 1: Create Keyspace Library

CREATE KEYSPACE Library WITH replication = { 'class': 'SimpleStrategy',

'replication\_factor': 1

};

# Step 2: Create Column Family Library\_Info

CREATE TABLE Library.Counter\_Table ( Stud\_Id int PRIMARY KEY, Counter\_value counter

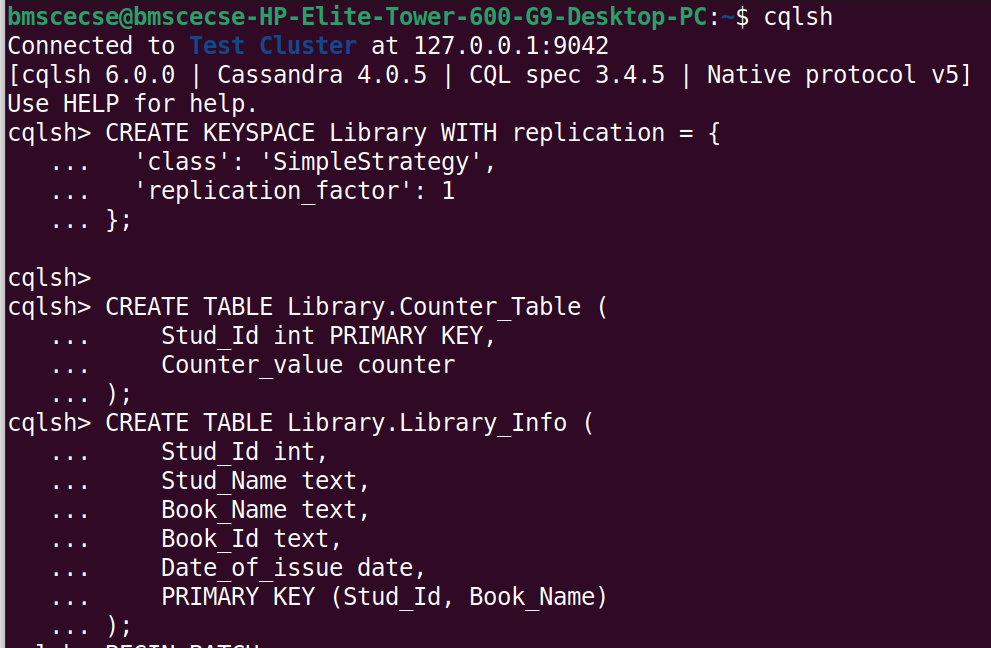
);

CREATE TABLE Library.Library\_Info ( Stud\_Id int,

Stud\_Name text, Book\_Name text, Book\_Id text, Date\_of\_issue date,

PRIMARY KEY (Stud\_Id, Book\_Name)

);



# Step 3: Insert Values into the Table in Batch

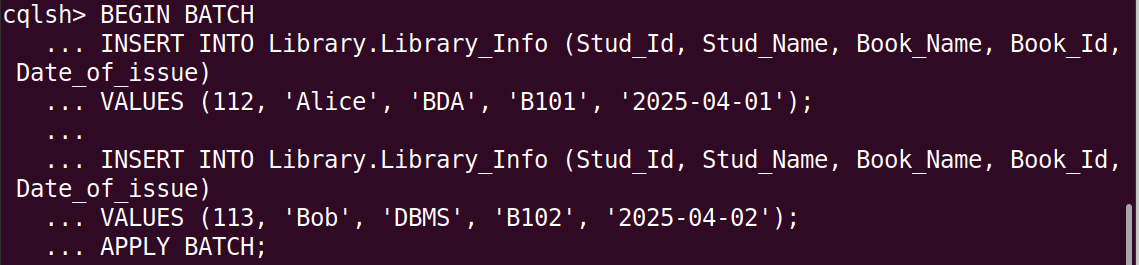
BEGIN BATCH

INSERT INTO Library.Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue)

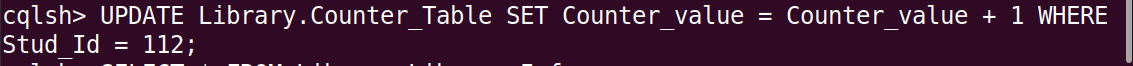
VALUES (112, 'Alice', 'BDA', 'B101', '2025-04-01');

INSERT INTO Library.Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue)

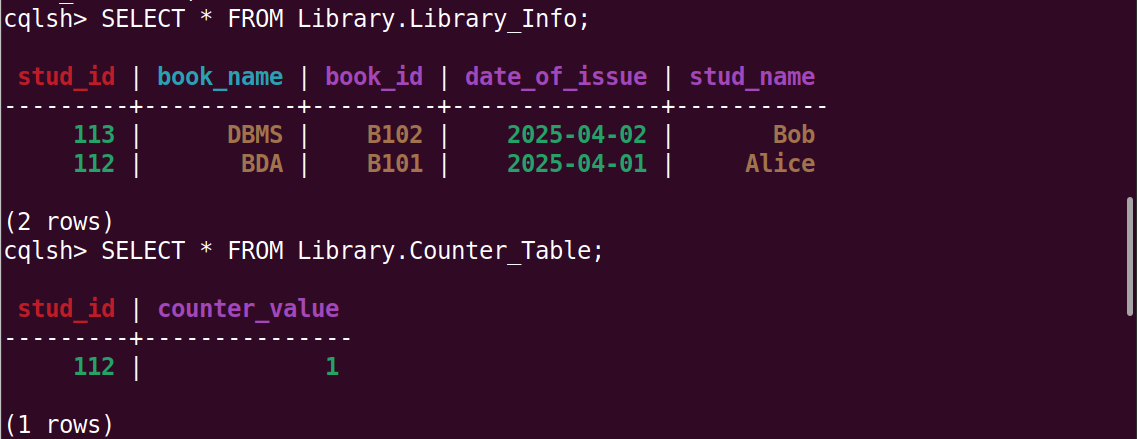
VALUES (113, 'Bob', 'DBMS', 'B102', '2025-04-02'); APPLY BATCH;



UPDATE Library.Counter\_Table SET Counter\_value = Counter\_value + 1 WHERE Stud\_Id = 112;

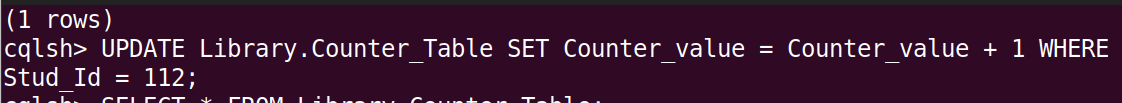


# Step 4: Display Table Details and Update Counter

SELECT \* FROM Library.Library\_Info; SELECT \* FROM Library.Counter\_Table;

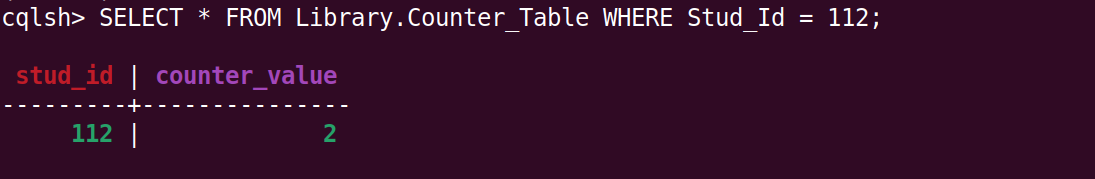
## To increase counter value

UPDATE Library.Counter\_Table SET Counter\_value = Counter\_value + 1 WHERE Stud\_Id = 112;



# Step 5: Show a Student with ID 112 has Taken Book "BDA" 2 Times

SELECT \* FROM Library.Counter\_Table WHERE Stud\_Id = 112;



# Step 6: Export Table to CSV and Import the CSV

1. Exit cqlsh: cqlsh> exit

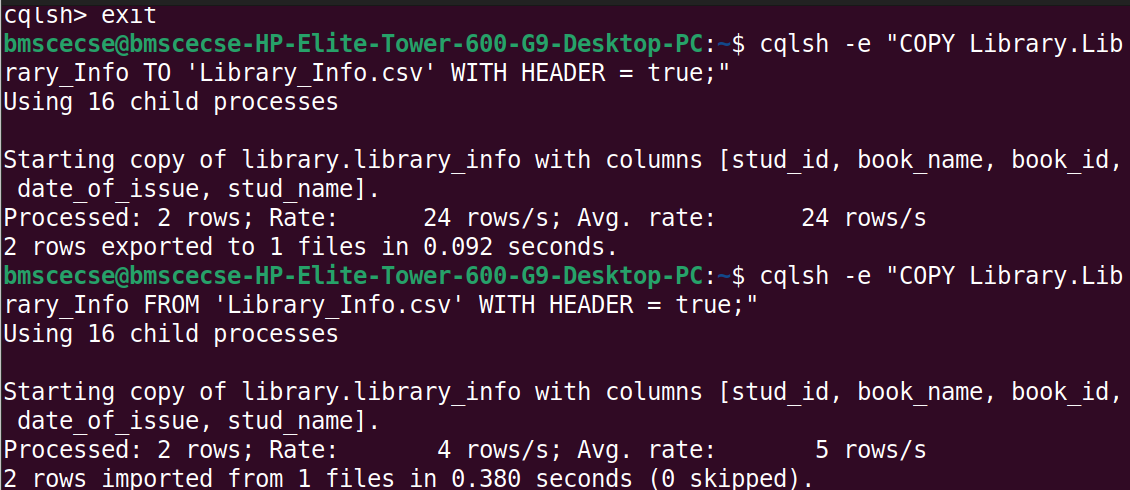
## Then in your system terminal run:

1. Export data to CSV:

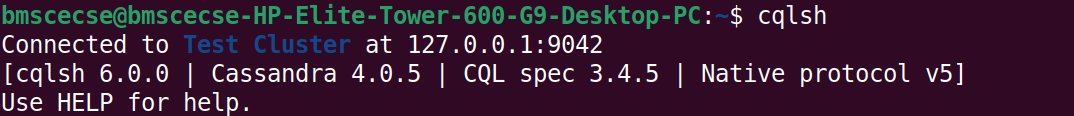
cqlsh -e "COPY Library.Library\_Info TO 'Library\_Info.csv' WITH HEADER = true;"

1. Import data from CSV:

cqlsh -e "COPY Library.Library\_Info FROM 'Library\_Info.csv' WITH HEADER = true;"



# Step 7: Show Imported Data

1. Open cqlsh: cqlsh
2. Use your keyspace:

USE Library;

1. Run a SELECT query to view the data: SELECT \* FROM Library\_Info;

