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1. Create a keyspace by name Library ;

→ create KEYSPACE Library with replication = {'class': 'SimpleStrategy', 'replication_factor': '3'};

2. 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.

→ CREATE TABLE library_info(student_id int, counter_value counter, student_name text, book_name text, book_id int, date_of_issue date, PRIMARY KEY (student_id, student_name, book_name, book_id, date_of_issue));

→ select * from library_info;

3. Insert the values

→ UPDATE library_info set counter_value = counter_value + 1 where student_id = 113 and student_name = 'Kratharth' AND book_name = 'BDA' AND book_id = 1000 AND date_of_issue = '2017-10-15'.

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

→ select * from library_info;

→ Update library_info set counter_value = counter_value + 2 where student_id = 113 AND student_name = 'Kedar' AND book_id = 1000 AND book_name = 'BBA' AND date_of_issue = '2017-10-15';

5. Write a query to show that a student with id = 112 has taken a book "BBA" 2 times.

→ select sum(counter_value) from Library_info where STUDENT_ID = 112 AND student_name = 'Kratharth' AND book_name = 'BBA';

6. Export the created columns to a csv file.

copy library_info (student_id, student_name, book_name, book_id, date_of_issue, counter_value) TO 'output.csv'.

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

→ Create Table library_output_info (student_id int, counter_value counter, student_name text, book_name text, book_id int, date_of_issue date, PRIMARY KEY (student_id, student_name, book_name, book_id, date_of_issue));

→ copy library_output_info from 'output.csv' with HEADER = TRUE;

→ select * from library_output_info;