## Md Yaseen Ahmed 1BM19CS404

<u>Lab-03:</u> Perform the following DB operations using Cassandra.

1. Create a keyspace by name Library

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

3. Insert the values into the table in batch & Display the details of the table created and increase the value of the counter

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cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 101 AND Stud_name = 'Md Yaseen' AND Book_name = 'BDA' AND Book_id = 1001 AND date_of_issue = '2021-01-26';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 102 AND Stud_name = 'Arbaz Ahmed' AND Book_name = 'ML' AND Book_id = 1002 AND date_of_issue = '2021-00-313';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 103 AND Stud_name = 'David' AND Book_name = 'OMD' AND Book_id = 1003 AND date_of_issue = '2021-03-13';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 104 AND Stud_name = 'Smith' AND Book_name = 'CNS' AND Book_id = 1004 AND date_of_issue = '2021-02-13';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 104 AND Stud_name = 'Smith' AND Book_name = 'CNS' AND Book_id = 1004 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 105 AND Stud_name = 'John' AND Book_name = 'ME' AND Book_id = 1005 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 105 AND Stud_name = 'John' AND Book_name = 'ME' AND Book_id = 1005 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 105 AND Stud_name = 'John' AND Book_name = 'ME' AND Book_id = 1005 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 105 AND Stud_name = 'John' AND Book_name = 'ME' AND Book_id = 1005 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 105 AND Stud_name = 'Smith' AND Book_name = 'ME' AND Book_id = 1005 AND date_of_issue = '2021-01-06';

cqlsh:library> UPDATE Library_info set counter_value = counter_value + 1 WHERE Stud_id = 104 AND Stud_name = 'Smith
```

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

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cqlsh:library> UPDATE Library info SET counter_value = counter_value + 1 WHERE Stud_id = 101 AND Stud_name = 'Md Yaseen' AND Book_name = 'BDA' AND Book_id = 1001 AND date_of_issue = '2021-01-30';
cqlsh:library> SELECT * FROM Library_info WHERE Stud_id = 101 AND Stud_name = 'Md Yaseen' AND Book_name = 'BDA' AND book_id = 1001;

$\frac{1}{2}\text{Stud_id} \text{ stud_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} = 'BDA' AND book_id = 1001;

$\frac{1}{2}\text{Stud_id} \text{ stud_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ book_name} \text{ counter_value} \text{ counter_value} \text{ counter_value} \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-26 00:00:00.000000+0000 | 1 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 1 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-26 00:00:00.000000+0000 | 1 \text{ Stud_id} = 101 AND Stud_name = 'Md Yaseen' AND Book_name = 'BDA' AND Book_id = 1001 AND date_of_issue = '2021-01-30';
cqlsh:library> SELECT * FROM Library_info WHERE Stud_id = 101;
$\frac{1}{2}\text{ stud_name} \text{ book_name} \text{ book_name} \text{ book_id} \text{ date_of_issue} \text{ counter_value} \text{ counter_value} \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-36 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Yaseen | BDA | 1001 | 2021-01-30 00:00:00.000000+0000 | 2 \text{ 101 | Md Ya
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