## Cassandra-1

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
- 4. Display the details of the table created and increase the value of the counter
- 5. Write a query to show that a student with id 112 has taken a book "BDA" 2 times.
- 6. Export the created column to a csv file
- 7. Import a given csv dataset from local file system into Cassandra column family

```
CREATE KEYSPACE Library WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
```

```
CREATE TABLE Library.Library_Info (

Stud_Id INT PRIMARY KEY,

Counter_value COUNTER,

Stud_Name TEXT,

Book_Name TEXT,

Book_Id TEXT,

Date_of_issue DATE

);
```

## **BEGIN BATCH**

INSERT INTO Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue) VALUES (101, 'Alice Smith', 'Database Systems', 'DB101', '2024-06-01');

INSERT INTO Library.Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue) VALUES (112, 'Bob Johnson', 'BDA', 'DS101', '2024-06-02');

INSERT INTO Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue) VALUES (103, 'Carol White', 'Introduction to Java', 'JV101', '2024-06-03');

INSERT INTO Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue) VALUES (104, 'Dave Black', 'Advanced SQL', 'SQL201', '2024-06-04');

INSERT INTO Library\_Info (Stud\_Id, Stud\_Name, Book\_Name, Book\_Id, Date\_of\_issue) VALUES (105, 'Eve Green', 'Machine Learning', 'ML101', '2024-06-05');

UPDATE Library.Library Info SET Counter value = Counter value + 1 WHERE Stud Id = 101;

UPDATE Library\_Library\_Info SET Counter\_value = Counter\_value + 1 WHERE Stud\_Id = 112;

UPDATE Library.Library Info SET Counter value = Counter value + 1 WHERE Stud Id = 103;

UPDATE Library\_Info SET Counter\_value = Counter\_value + 1 WHERE Stud\_Id = 104;

UPDATE Library\_Info SET Counter\_value = Counter\_value + 1 WHERE Stud\_Id = 105;

APPLY BATCH;

SELECT \* FROM Library.Library Info WHERE Stud Id = 112 AND Book Name = 'BDA';

COPY Library. Library Info TO 'library info.csv';

COPY Library\_Info FROM 'library\_info.csv';

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