LAB PROGRAM-3

```
cqlsh:employee> CREATE KEYSPACE IF NOT EXISTS Library
... WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
cqlsh:employee> USE Library;
cqlsh:library> CREATE TABLE IF NOT EXISTS Library_Info (
... Stud_Id INT PRIMARY KEY,
... Stud_Name TEXT,
... Book_Name TEXT,
... Book_Id TEXT,
... Book_Id TEXT,
... Date_of_issue DATE
...);
 ... Date_or_tssue bridge
... );
cqlsh:library> CREATE TABLE IF NOT EXISTS Book_Counter (
... Stud_Id INT,
... Book_Name TEXT,
... Counter_value COUNTER,
... PRIMARY KEY ((Stud_Id), Book_Name)
     cqlsh:library> BEGIN BATCH
... INSERT INTO Library_Info (Stud_Id, Stud_Name, Book_Name, Book_Id, Date_of_issue)
... VALUES (112, 'Anjali Rao', 'BDA', 'B101', '2024-10-01');
   ...
INSERT INTO Library_Info (Stud_Id, Stud_Name, Book_Name, Book_Id, Date_of_issue)
... VALUES (113, 'Karthik N', 'AI', 'B102', '2024-11-11');
... APPLY BATCH;
cqlsh:library> UPDATE Book_Counter SET Counter_value = Counter_value + 1 WHERE Stud_Id = 112 AND Book_Name = 'BDA';
cqlsh:library> UPDATE Book_Counter SET Counter_value = Counter_value + 1 WHERE Stud_Id = 112 AND Book_Name = 'BDA';
cqlsh:library> SELECT * FROM Book_Counter WHERE Stud_Id = 112 AND Book_Name = 'BDA';
           112 | BDA | 4
                             112
     cqlsh:students> DESCRIBE TABLE Students_Info;
   CREATE TABLE students.students_info (
roll_no int PRIMARY KEY,
dateofjoining timestamp,
last_exam_percent double,
dateofjoining timestamp,
last_exam_percent double,
studname text
) WITH additional_write_policy = '99p'
AND bloom_filter_fp_chance = 0.01
AND caching = ('keys': 'ALL', 'rows_per_partition': 'NONE')
AND code = false
AND comment = ''
AND compaction = { 'class': 'org.apache.cassandra.db.compaction.SizeTieredCompactionStrategy', 'max_threshold': '32', 'min_threshold': '4')
AND compression = ('chunk_length_in_kb': '10', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor')
AND compression = ('chunk_length_in_kb': '10', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor')
AND compression = ('chunk_length_in_kb': '10', 'class': 'org.apache.cassandra.io.compress.LZ4Compressor')
AND crc_check_chance = 1.0
AND extensions = ()
AND gr_grace_seconds = 864800
AND main_intex_interval = 2048
AND max_index_interval = 2048
AND max_index_interval = 2048
AND max_index_interval = 2048
AND max_index_interval = 2048
AND read_repair = 'BLOCKING'
AND speculative_refry = '99p';
cqlsh:studentss BEGIN BATCH
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (1, 'Asha', '2012-03-12', 79-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (3, 'Shanthi', '2012-03-12', 99-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (4, 'Snithi', '2012-03-12', 99-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (5, 'Rohan', 'Z012-03-12', 50-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (5, 'Rohan', 'Z012-03-12', 50-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (5, 'Rohan', 'Z012-03-12', 50-9);
... INSERT INTO Students_Info (Roll_No, StudName, DateOfJoining, Last_Exam_Percent)
... VALUES (5, 'Rohan', 'Z012-03-12', 50-9);
```

```
cqlsh> CREATE KEYSPACE Students WITH REPLICATION =
    ... {'class': 'SimpleStrategy', 'replication_factor': '1'};
cqlsh>
 cqlsh> USE Students;
cqlsh:students> DESCRIBE KEYSPACES;
 companies library products system system_traces
company pro productss system_auth system_views
employe prod productsss system_distributed system_virtual_schema
employee productname students system_schema
 ::
.::
.::
  cqlsh:students> SELECT * FROM system.schema_keyspaces;
 calsh:students>
    qlsh:students> SELECT * FROM system_schema.keyspaces;
                                                                               True | {'class': 'org.apache.cassandra.locator.SimpleStrategy', 'replication_factor': '1'}
                     companies |
system_auth |
   system_auth |
system_schema |
Library |
products |
system_distributed |
system
productsss |
prod |
pro |
system_traces |
students |
                         students
 (17 rows)
cqlsh:students> DESCRIBE TABLES;
 students info
cqlsh:students>    SELECT * FROM Students_Info WHERE Roll_No IN (1,2,3);
                    1 | 2012-03-11 18:30:00.000000+0000 | 79.9 | Asha
2 | 2012-03-11 18:30:00.000000+0000 | 89.9 | Kiran
3 | 2012-03-11 18:30:00.000000+0000 | 90.9 | Shanthi
cqlsh:students> CREATE INDEX ON Students Info (StudName);
cqlsh:students> SELECT * FROM Students_Info WHERE StudName = 'Asha';
                    cqlsh:students> SELECT Roll_No, StudName FROM Students_Info LIMIT 2;
                  5 | Rohan
1 | Asha
 (2 rows)
cqlsh:students> SELECT Roll_No AS USN FROM Students_Info;
(5 rows)
cqlsh:students> UPDATE Students_Info
... SET StudName = 'David Sheen'
... WHERE Roll_No = 2;
 cqlsh:students> UPDATE Students_Info SET Roll_No = 6 WHERE Roll_No = 3; -- 🗶 ERROR!
```