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- 1BM17CS140
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- C'3'

BDA - LAB - 6

I. Perform DB operation using Cassandra.

1. Create keyspace by name Employee
2. Create columnfamily by name Employee_info with attributes emp_id primarykey, emp_name, designation, Date_of_joining, salary, dept_name.
3. Insert the values into the table in batch
   . Update Employee name and Department of Emp-Id 121
4. Sort details of Employee records based on salary.
5. Alter the schema of table Employee_info.
6. Update altered ~~p~~table to add project name.
7. Create TTL of 15 seconds to display the value of Employees.

→

```
cqlsh> create keyspace Employee with replication = {'class': 'SimpleStrategy',
       'replication_factor': '1'} and durable_writes = 'true';

cqlsh> describe keyspaces;

cqlsh> use employee;

cqlsh:employee> create table employee_info(emp_id int primary key,
          emp_name text, designation text, date_of_joining timestamp,
          salary int);

cqlsh:employee> describe tables;

cqlsh:employee> describe table employee_info;

cqlsh:employee> begin batch
          ... insert into employee_info(emp_id, emp_name, designation, date_of_joing,
                                        salary)
          ... values (100, 'Saurav', 'SoftwareDeveloper', '2020-01-01', 50000)
```

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... insert into employee_info (emp_id, emp_name, designation, date_of_joing, salary)
... values (121, 'Shubham', 'Platform Engineer', '2019-02-15', 85000)
... apply batch;

cqlsh: employee> select * from employee_info;

cqlsh: employee> update employee_info
... set emp_name = 'Rajendra Rijal'
... designation = 'Senior Developer'
... where emp_id = 121

cqlsh : employee > select * from employee_info;

cqlsh: employee> alter table employee_info add projects set<text>;
cqlsh: employee> update employee_info set projects = {'Web Design'} where emp_id = 110;
cqlsh: employee> update employee_info set project = {'Machine learning'} where emp_id = 140;

cqlsh: employee> Select * from employee_info;

cqlsh: employee> update employee_info using ttl 15 set emp_name = 'Sauran' where emp_id = 100;

cqlsh: employee> Select ttl(emp_name) from employee_info;

II Perform DB operation 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 details of table created and increase the value of 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 given csv dataset from local filesystem into Cassandra column family.

→ cqlsh > create keyspace Library with replication = {'class': 'SimpleStrategy', 'replication_factor': '1'} and durable_writes = 'true';

cqlsh> describe keyspaces;

cqlsh> use Library;

cqlsh:library > Create table library_info(stud_id int, stud_name text, book_name text, book_id int, date_of_issue timestamp, counter_value Counter, PRIMARY KEY (stud_id, stud_name, book_name, book_id, date_of_issue));

cqlsh:library> select * from library_info;

cqlsh:library> update library_info set counter_value = counter_value + 1 where stud_id = '112' and stud_name = 'Saurav' and book_name = 'BDA' and book_id = 1 and date_of_issue = '2019-12-31';

cqlsh:library> select * from library_info;

cqlsh:library > Update library_info set counter_value = counter_value + 1 where stud_id = 112 and stud_name = 'Saurav' and book_name = 'BDA' and book_id = 1 and date_of_issue = '2019-12-31';

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cqlsh: library > select * from library_info;

cqlsh: library > Select book_name, counter_value from library_info where
                 stud_id=112;

cqlsh: library> copy library_info (stud_id, counter_value, stud_name, book_name,
               book_id, date_of_issue) TO 'C:\Users\Asus\Desktop\BDA LAB6\
               library.csv';

cqlsh: library> copy library_info(stud_id, counter_value, stud_name, book_name,
               book_id, date_of_issue) TO 'C:\Users\Asus\Desktop\BDA Lab6\library.csv';

cqlsh: library> Select * from library_info;
```