1BM22CS066_Lab-5_BDA_cassandra

Part 1: Employee Database (Table name changed to

employee_details)

#Create Keyspace

#Create Table employee_details
#Insert Values in Batch

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC: ~
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ cqlsh
Connected to Test Cluster at 127.0.0.1:9042
[cqlsh 6.1.0 | Cassandra 4.1.4 | CQL spec 3.4.6 | Native protocol v5]
Use HELP for help.
cqlsh> CREATE KEYSPACE employee_db WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
cqlsh> USE employee_db;
cqlsh:employee_db> CREATE TABLE employee_details (
                                emp_id int PRIMARY KEY,
                                emp_name text,
                                designation text,
                               date_of_joining date,
salary decimal,
                                dept_name text
                     ...);
cqlsh:employee_db> BEGIN BATCH
                     ... INSERT INTO employee_details (emp_id, emp_name, designation, date_of_joining, salary, dept_name)
                    ... VALUES (121, 'Alice', 'Manager', '2018-05-20', 75000.00, 'HR');
... INSERT INTO employee_details (emp_id, emp_name, designation, date_of_joining, salary, dept_name)
... VALUES (122, 'Bob', 'Developer', '2020-07-01', 60000.00, 'IT');
... INSERT INTO employee_details (emp_id, emp_name, designation, date_of_joining, salary, dept_name)
... VALUES (123, 'Charlie', 'Analyst', '2021-09-10', 50000.00, 'Finance');
                      .. APPLY BATCH;
cqlsh:employee_db> select * from employee_details
        id | date_of_joining | dept_name | designation | emp_name | salary
                                                          Analyst | Charlie | 50000.00
Developer | Bob | 60000.00
                    2021-09-10 | Finance | 2020-07-01 | IT |
     121
                     2018-05-20
(3 rows)
cqlsh:employee db>
```

```
#Update emp_name and dept_name of emp_id 121
#Sort Employees by Salary
#Alter Table to Add projects Column
#Update Projects for Employee
```

#Update Projects for Employee #Insert with TTL of 15 Seconds

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| Californio | Cal
```

Part 2: Library Database (New Table Names)

Create Keyspace Create Tables

A. Table: library_student_info

B. Table: book_counter_info

3Insert Data in Batch

(No Mixing Counters in Batch):

You can repeat the UPDATE if you want to increment the counter multiple times.

To Simulate Borrowing Book "BDA" 2 Times by Student 112

Display Table & Increase Counter

Query: Student 112 took "BDA" 2 times

Export Table to CSV

```
(1 rows)
cqlsh:library_db> cqlsh -e "COPY library_db.library_student_info TO 'library_export.csv' WITH HEADER = TRUE;"
```

cqlsh:llbrary_db> cqlsh> COPY llbrary_student_info (stud_id, stud_name, book_name, book_id, date_of_issue) FROM '/home/bmscecse/Documents/llbrary_data.csv' WITH HEADER = TRUE;