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BDA LAB 3

Program 1. Perform the following DB operations using Cassandra.

1. Create a key space by name Employee

```
cqlsh> CREATE KEYSPACE Employee WITH replication = {'class': 'SimpleStrategy', 'replication_factor': 1};
cqlsh> describe keyspace
No keyspace specified and no current keyspace
cqlsh> describe Employee;
```

2. Create a column family by name Employee-Info with attributes Emp_Id Primary Key, Emp_Name, Designation, Date_of_Joining, Salary, Dept_Name

cqlsh> create table Employee.Employee_Info(Emp_Id int Primary Key,Emp_Name text,Designation text,Date_of_Joining timestamp,Salary double,Dept_Name text);

3. Insert the values into the table in batch

4. Update Employee name and Department of Emp-Id 121

cqlsh> update Employee.Employee_Info SET emp_name='Kushi',dept_name='Testing' where emp_id=121;

5. Sort the details of Employee records based on salary

cqlsh> create table Employee.emp(Emp_Id int,Emp_name text,Designation text,Date_Of_Joining timestamp,Salary double,Dept_Name text,primary ke y(Emp_Id,Salary));

```
cqlsh> begin batch
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(1,1500000.50,'2021-06-03','Deployment','
Manager','Kasum');
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(2,1100000.50,'2022-05-03','Development',
'Web Developer','Karan');
... insert into Employee.emp(emp_id,salary,date_of_joining,dept_name,designation,emp_name)values(121,1900000.50,'2022-05-03','R&D','Inter
n','Kia');
... apply batch;
cqlsh> select * from Employee.emp;

dept_name | designation | emp_name

1 | 1.5e+06 | 2021-06-03 00:00:00.000000+0000 | Deployment | Manager | Kusum
2 | 1.1e+06 | 2022-05-03 00:00:00.000000+0000 | Development | Web Developer | Karan
121 | 1.9e+06 | 2022-05-03 00:00:00.000000+0000 | R&D | Intern | Kia

(3 rows)
cqlsh> paging off;
Disabled Query paging.
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.emp where emp_id in (1,2,121) order by salary;
cqlsh> select * from Employee.e
```

6. Alter the schema of the table Employee_Info to add a column Projects which stores a set of Projects done by the corresponding Employee.

7. Update the altered table to add project names.

8 Create a TTL of 15 seconds to display the values of Employees.

```
cqlsh> insert into Employee.Employee_Info(emp_id,date_of_joining,dept_name,designation,emp_name,salary)values(11,'2019-05-05','R&D','
Intern', 'Kajal', 1000000.50) using TTL 15;
cqlsh> select * from Employee.Employee_Info;
     11 | 2019-05-05 00:00:00.000000+0000 |
                                                           R&D
                                                                           Intern
                                                                                         Kajal
                                                                                                                                        1e+06
                                                                                        Kusum {'abc', 'xyz'} | 1.5e+06
Karan {'def', 'lmn', 'pqr', 'tuv'} | 1.7e+06
Kushi {'lab', 'jkl'} | 2e+06
      1 | 2021-06-03 00:00:00.000000+0000 | Deployment | Manager | 2 | 2020-09-03 00:00:00.000000+0000 | Development | Web developer |
    121 | 2019-05-03 00:00:00.000000+0000 |
                                                      Testing
                                                                          Intern
cqlsh> select * from Employee.Employee_Info;
                                                | dept_name | designation | emp_name | projects
      1 | 2021-06-03 00:00:00.000000+0000 | Deployment
                                                                          Manager
                                                                                                                  {'abc', 'xyz'} | 1.5e+06
                                                                                                 {'def', 'lmn', 'pqr', 'tuv'} | 1.7e+06
{'lab', 'jkl'} | 2e+06
      2 | 2020-09-03 00:00:00.000000+0000 | Development |
                                                                                         Karan
    121 | 2019-05-03 00:00:00.000000+0000 |
                                                      Testing
                                                                           Intern
                                                                                         Kushi
```