Experiment No. 08

Create and manage NoSQL Databases with Cassandra

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Problem Statement:

```
1. Create keyspace: employee
```

```
2. Create: emp_table(
```

... emp id int,

... name text,

... city text,

... designation text,

... experience float,

... primary key(emp_id));

- 3. Perform following operations on created table:
 - a. Insert rows

```
cqlsh:employee> INSERT INTO emp_table (emp_id, name, city, designation, experience)
... VALUES (1, 'Alice', 'New York', 'Engineer', 3.5);
cqlsh:employee> select * from employee.emp_table;
 emp_id | city
                              | designation | experience | name
         1 | New York |
                                     Engineer |
                                                                  3.5 | Alice
(1 rows)
cqlsh:employee> INSERT INTO emp_table (emp_id, name, city, designation, experience)
... VALUES (2, 'Bob', 'San Francisco', 'Manager', 7.0);
cqlsh:employee> select * from employee.emp_table;
 emp_id | city
                                      | designation | experience | name
                       New York
                                             Engineer
                                                                          3.5
                                                                                   Alice
         2
               San Francisco
                                               Manager
                                                                                       Bob
(2 rows)
```

b. Update rows

```
cqlsh:employee> UPDATE emp_table
... SET city = 'Chicago', experience = 4.0
... WHERE emp_id = 1;
```

c. Update rows with upsert

```
cqlsh:employee> INSERT INTO emp_table (emp_id, name, city, designation, experience)
... VALUES (3, 'Charlie', 'Los Angeles', 'Analyst', 2.5);
cqlsh:employee> select * from employee.emp_table;
 emp_id | city
                                    | designation | experience | name
         1 |
                        Chicago
                                           Engineer
                                                                                   Alice
         2
               San Francisco
                                            Manager
                                                                                     Bob
                                             Analyst |
                                                                      2.5 | Charlie
         3
                 Los Angeles
(3 rows)
```

d. Retrieve data from table

```
cqlsh:employee> SELECT * FROM emp_table;
emp_id | city
                        | designation | experience | name
                                                  4
                                                        Alice
                Chicago
                             Engineer
      2
                                                  7
          San Francisco
                              Manager
                                                          Bob
                              Analyst |
                                                2.5 I
                                                      Charlie
            Los Angeles
(3 rows)
cqlsh:employee>
cqlsh:employee> SELECT name, city FROM emp_table WHERE emp_id = 1;
name
       city
 Alice | Chicago
```

e. Alter table add columns ((email set<text>, expertise list<text>, prev jobs map<text, int>)

Insert new rows

g. Delete rows and values

```
cqlsh:employee> DELETE FROM emp_table WHERE emp_id = 2;
```

- 4. create table product(
 - ... id uuid,
 - ... name text,
 - ... price float,
 - ... quan int,
 - ... primary key(id));

```
cqlsh:employee> CREATE TABLE product (
... id uuid PRIMARY KEY,
... name text,
... price float,
... quan int
...);
```

5. Perform following operations on created table:

a. Insert rows

```
cqlsh:employee> INSERT INTO product (id, name, price, quan)
... VALUES (uuid(), 'Laptop', 1200.00, 10);
cqlsh:employee>
cqlsh:employee> INSERT INTO product (id, name, price, quan)
... VALUES (uuid(), 'Phone', 800.00, 25);
```

b. Alter table product add (inv_date timestamp, available boolean);

```
cqlsh:employee> ALTER TABLE product
... ADD inv_date timestamp;
cqlsh:employee> ALTER TABLE product
... ADD available boolean;
```

c. Insert new rows