## Create and Manage NoSQL databases with Cassandra

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## **Problem Statement 1:**

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
  - b. Update rows
  - c. Update rows with upsert
  - d. Retrieve data from table
  - e. Alter table add columns ((email set<text>, expertise list<text>,
    prev\_jobs map<text, int>)
  - f. Insert new rows
  - g. Delete rows and values

```
Java Developer | 4.8 |
ftware Engineer | 5 |
                                                        Ankita
       5
                 Pune
       1
            Benglore
                         Software Engineer
                                                       Pushkaraj
       2
                             Data Scientist
                                                3.5
                                              4.7
       4
                              Junior Tester
                           DevOps Engineer
MERN Developer
                                                3.9
                                                4
(6 rows)
cqlsh> UPDATE employee.emp table SET city = 'Benglore', exp = 5.5 WHERE emp id = 5;
cqlsh> SELECT * FROM employee.emp_table;
  emp_id | city | designation | exp | name
                        Java Developer | 5.5 | Ankita
Software Engineer | 5 | Pushkaraj
Data Scientist | 3.5 | Aryan
                                                         Ankita
        Benglore
            Benglore
       2
                 Pune
          Hvderabad
                              Junior Tester | 4.7 |
      4
            Benglore
                           DevOps Engineer
MERN Developer
                                              3.9
                                                           Sejal
       6
                                                 4
(6 rows)
cqlsh>
```

```
cqlshx ALTER TABLE employee.emp_table ADD email set <TEXT>;
cqlshx ALTER TABLE employee.emp_table ADD exp LISI<TEXT>;
cqlshx ALTER TABLE employee.emp_table ADD expertise LISI<TEXT>;
cqlshx SELECT * FROM employee.emp_table ADD prev_mobs MAP<TEXT, INT>;
cqlshx SELECT * FROM employee.emp_table;

emp_id | city | designation | email | exp | expertise | name | prev_mobs |

5 | Benglore | Java Developer | null | 5.5 | null | Ankita | null |
2 | Pune | Data Scientist | null | 3.5 | null | Aryan | null |
6 | Benglore | DevOps Engineer | null | 3.9 | null | Sejal | null |
6 | Benglore | DevOps Engineer | null | 4.7 | null | Ritesh | null |
cqlshx DPDATE employee.emp_table SET email = ('pushkaraj@mail.com'), expertise = ('Java', 'Sprigboot', 'React Native'], prev_mobs = ('Java developer': 2) WHERE emp_id = 1;
cqlshx SELECT * from employee.emp_table |
...;

emp_id | city | designation | email | exp | expertise | name | prev_mobs |
5 | Benglore | Java Developer | null | 5.5 | ('Java', 'Sprigboot', 'React Native'] | Pushkaraj ('Java developer': 2) |
2 | Pune | Data Scientist | null | 3.5 | null |
```

## **Problem Statement 2:**

- 1. create table product( id uuid, name text, price float, quant int, primary key(id));
- 2. Perform following operations on created table:
  - a. Insert rows
  - b. Alter table product add (inv\_date timestamp, available boolean);
  - c. Insert new rows

```
cqlsh:employee> CREATE TABLE product (id uuid PRIMARY KEY, name text, price float, quant int);
cqlsh:employee> INSERT INTO product (id, name, price, quant) VALUES ( now(), 'Pen-Drive', 400.20, 12); cqlsh:employee> INSERT INTO product (id, name, price, quant) VALUES ( now(), 'HDD', 1000.55, 13); cqlsh:employee> INSERT INTO product (id, name, price, quant) VALUES ( now(), 'SSD', 2000, 300); cqlsh:employee> SELECT * FROM product;
                                                                          price
                                                        l name
                                                                                              quant
 740efa50-ab40-11ef-892f-b7f7c08c91a3
                                                                                                    12
 88471070-ab40-11ef-892f-b7f7c08c91a3
                                                                                                    300
                                                                                      2000
 808b3c80-ab40-11ef-892f-b7f7c08c91a3
                                                                             1000.54999
3 rows)
cqlsh:employee> ALTER TABLE product ADD inv_date time
time timestamp timeuuid
cqlsh:employee> ALTER TABLE product ADD inv_date timestamp;
cqlsh:employee> ALTER TABLE product ADD available boolean;
```