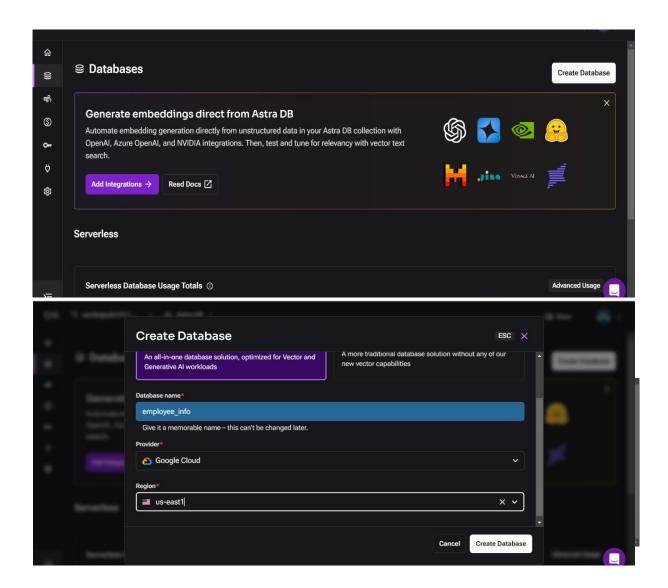
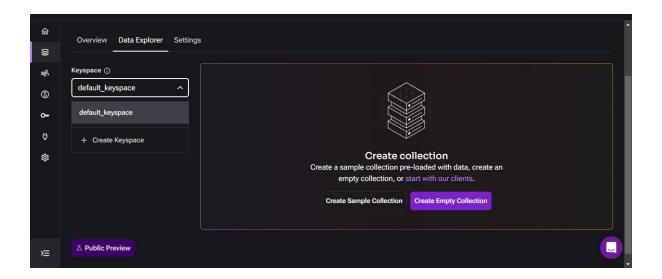
Assignment: 8

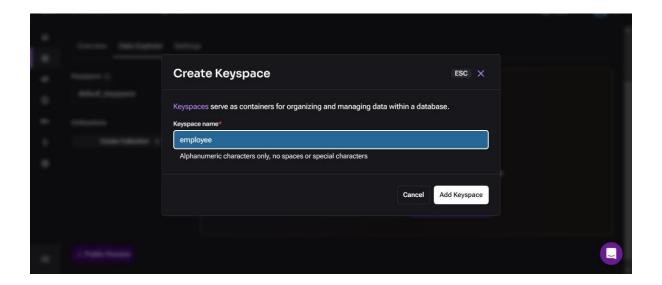
Name: Digvijay Patil

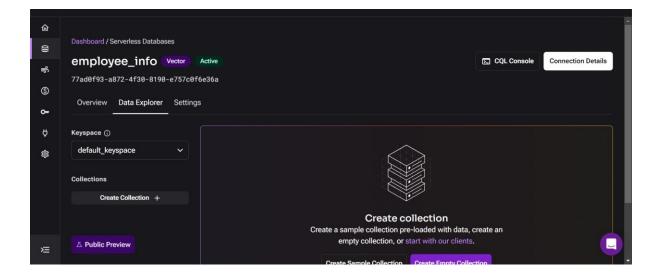
Roll No: B53

Assignment :Create and manage NoSQL Databases with Cassandra









INSERT ROWS:

INSERT INTO EMP TABLE (EMP ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (1, AMIT DESAI', 'KOLHAPUR', 'PUNE, 2.5);

INSERT INTO EMP TABLE (EMP ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (2, 'RAJ RANE', 'KOLHAPUR', 'MUMBAI', 2);

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE)) VALUES (3, 'RUTURAJ PATIL', 'PUNE', 'KOLHAPUR', 1);

INSERT INTO EMP TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (4, 'KARAN MANE', 'KOLHAPUR', 'SANGLI', 1.2);

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (5, 'RAM KALE', 'KOLHAPUR', 'SANGLI', 2.1);

mp_id	city	destination	experience	name
5	KOLHAPUR	SANGLI	2.1	RAM KALE
1	KOLHAPUR	PUNE	2.5	AMIT DESAI
2	KOLHAPUR	MUMBAI	2	raj rane
4	PUNE	KOLHAPUR	1	RUTURAJ PATIL
3 Î	KOLHAPUR	SANGLI	1.2	KARAN MANE

UPDATE ROWS:

UPDATE EMP_TABLE SET CITY='SANGLI', DESTINATION='SATARA', EXPERIENCE=3 WHERE EMP_ID=5;

mp_id	city	destination	experience	name
5	SANGLI	SATARA	3	RAM KALE
1	KOLHAPUR	PUNE	2.5	AMIT DESAI
2	KOLHAPUR	MUMBAI	2	raj rane
4	PUNE	KOLHAPUR	1	RUTURAJ PATIL
3	KOLHAPUR	SANGLI	1.2	KARAN MANE

UPDATE EMP_TABLE SET CITY='SANGLI' WHERE EMP_ID=2;

_id	city	destination	experience	name
5	SANGLI	SATARA	3	RAM KALE
1	KOLHAPUR	PUNE	2.5	AMIT DESAI
2	SANGLI	MUMBAI	2	RAJ RANE
4	PUNE	KOLHAPUR	1	RUTURAJ PATIL
3	KOLHAPUR	SANGLI	1.2	KARAN MANE

UPDATE ROWS WITH UPSERT:

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (1, 'AMIT DESAI', 'VITA', 'SANGLI', 2);

mp_id	city	destination	experience	name
5	SANGLI	SATARA	3	RAM KALE
1	VITA	SANGLI	2	AMIT DESAI
2	SANGLI	MUMBAI	2	RAJ RANE
4	PUNE	KOLHAPUR	1	RUTURAJ PATIL
3	KOLHAPUR	SANGLI	1.2	KARAN MANE

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE) VALUES (2, 'RAJ RANE', 'SANGLI', 'PUNE', 4);

token@cqlsh:employee> SELECT * FROM EMP_TABLE;							
emp_id	city	destination	experience	name			
5	SANGLI	SATARA	3	RAM KALE			
1	VITA	SANGLI	2	AMIT DESAI			
2	SANGLI	PUNE	4	RAJ RANE			
4	PUNE	KOLHAPUR	1	RUTURAJ PATIL			
3	KOLHAPUR	SANGLI	1.2	KARAN MANE			
(5 rows)							

RETRIEVE DATA FROM TABLE:

```
token@cqlsh:employee> SELECT * FROM EMP_TABLE;
emp_id | city | destination | experience | name
         SANGLI
    5
                                     3
                                             RAM KALE
                      SATARA
    1
           VITA
                      SANGLI
                                    2
                                           AMIT DESAI
                       PUNE
          SANGLI
    2
                                    4
                                             RAJ RANE
           PUNE
                                    1 | RUTURAJ PATIL
    4
                    KOLHAPUR
    3 | KOLHAPUR |
                                  1.2
                                          KARAN MANE
                    SANGLI
(5 rows)
```

SELECT EMP_ID, NAME, CITY FROM EMP_TABLE;

```
token@cqlsh:employee> SELECT EMP_ID, NAME, CITY FROM EMP_TABLE;
 emp_id | name
                      city
     5
             RAM KALE
                          SANGLI
     1 |
          AMIT DESAI
                           VITA
             RAJ RANE
                          SANGLI
     2 |
     4 | RUTURAJ PATIL |
                           PUNE
           KARAN MANE | KOLHAPUR
(5 rows)
```

SELECT * FROM EMP_TABLE WHERE EMP_ID = 5;

```
token@cqlsh:employee> SELECT * FROM EMP_TABLE WHERE EMP_ID = 5;

emp_id | city | destination | experience | name

5 | SANGLI | SATARA | 3 | RAM KALE

(1 rows)
```

ALTER TABLE ADD COLUMNS ((EMAIL SET<TEXT>, EXPERTISE LIST<TEXT>, PREV_JOBS MAP<TEXT, INT>):

ALTER TABLE EMP_TABLE ADD email set<text>;

ALTER TABLE EMP_TABLE ADD expertise list<text>;

ALTER TABLE EMP_TABLE ADD prev_jobs map<text, int>;

emp_id	city	destination	email	experience	expertise	name	prev_jobs
5	SANGLI	SATARA	null	3	null	RAM KALE	null
1	VITA	SANGLI	null	2	null	AMIT DESAI	null
2	SANGLI	PUNE	null	4	null	raj rane	null
4	PUNE	KOLHAPUR	null	1	null	RUTURAJ PATIL	null
3	KOLHAPUR	SANGLI	null	1.2	null	KARAN MANE	nul1

INSERT NEW ROWS

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE, email, expertise, prev_jobs) VALUES (6, 'SURAJ PATIL', 'MUMBAI', 'DELHI', 4.5, {'suraj@example.com'}, ['Engineering', 'Management'], {'Software Engineer': 3, 'Project Manager': 2});

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE, email, expertise, prev_jobs) VALUES (7, 'AJIT PATIL', 'KADEGAON', 'SANGLI', 4, {'ajit@example.com'}, ['Engineering', 'Programmer'], {'Software Developer': 1, 'Project Manager': 3});

INSERT INTO EMP_TABLE (EMP_ID, NAME, CITY, DESTINATION, EXPERIENCE, email, expertise, prev_jobs) VALUES (8, 'RAJ KAPOOR', 'NASHIK', 'MUMBAI', 5, {'raj@example.com'}, ['Development'], {'Developer': 5});



DELETE ROWS AND VALUES:

Delete an Entire Row

DELETE FROM EMP_TABLE WHERE EMP_ID = 5;

Delete Specific Columns

DELETE email, expertise FROM EMP_TABLE WHERE EMP_ID = 5;



create table product(

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

CREATE TABLE PRODUCT (ID UUID, NAME TEXT, PRICE FLOAT, QUAN INT, PRIMARY KEY(ID));

PERFORM FOLLOWING OPERATIONS ON CREATED TABLE:

INSERT ROWS:

INSERT INTO PRODUCT (ID, NAME, PRICE, QUAN) VALUES(UUID(), 'SIMARAN PATIL', 20000, 4);

INSERT INTO PRODUCT (ID, NAME, PRICE, QUAN) VALUES(UUID(), 'OM RAJMANE', 500.14, 5);

INSERT INTO PRODUCT (ID, NAME, PRICE, QUAN) VALUES(UUID(), 'MITU VARDHAN', 14.44, 2);

INSERT INTO PRODUCT (ID, NAME, PRICE, QUAN) VALUES(UUID(), 'MANISHA WAGH', 60.30, 3);

```
token@cqlsh:employee> SELECT * FROM PRODUCT;
                                    name
                                                    price
                                                               quan
5a1f4e08-c437-4978-866d-36933194042e | MITU VARDHAN |
                                                                    2
                                                         14.44
f01e6ade-fdb4-4ae5-8d41-1cfd1ad8db20 | OM RAJMANE | 500.14001 |
                                                                    5
b1cb111f-d219-49d4-9662-a7a93657e4cc | SIMARAN PATIL |
                                                         20000
                                                                    4
46bc907c-3a4f-4528-aa3d-d574e993ffdd | MANISHA WAGH |
                                                                    3
                                                          60.3
(4 rows)
```

ALTER TABLE PRODUCT ADD (INV_DATE TIMESTAMP, AVAILABLE BOOLEAN);

ALTER TABLE PRODUCT ADD INV_DATE timestamp;

ALTER TABLE PRODUCT ADD AVAILABLE boolean;

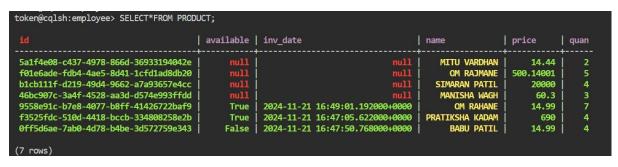
id	available	inv_date	name	price	quan
5a1f4e08-c437-4978-866d-36933194042e	null	null	MITU VARDHAN	14.44	2
f01e6ade-fdb4-4ae5-8d41-1cfd1ad8db20	null	null	OM RAJMANE	500.14001	5
b1cb111f-d219-49d4-9662-a7a93657e4cc	null	null	SIMARAN PATIL	20000	4
46bc907c-3a4f-4528-aa3d-d574e993ffdd	null	nul1	MANISHA WAGH	60.3	3

INSERT NEW ROWS:

INSERT INTO PRODUCT(ID, NAME, PRICE, QUAN, AVAILABLE, INV_DATE) VALUES(UUID(), 'PRATIKSHA KADAM', 690, 4,true, toTimestamp(now()));

INSERT INTO PRODUCT(ID, NAME, PRICE, QUAN, AVAILABLE, INV_DATE) VALUES(UUID(), 'BABU PATIL', 14.99, 4,false, toTimestamp(now()));

INSERT INTO PRODUCT(ID, NAME, PRICE, QUAN, AVAILABLE, INV_DATE) VALUES(UUID(), 'OM RAHANE', 14.99, 7,true, toTimestamp(now()));



Problem Statement 2:

CREATE KEYSPACE: USER_PROFILE

use user_profile;

CREATE TABLE USERS (USER_ID UUID PRIMARY KEY, FIRST_NAME TEXT, LAST_NAME TEXT, AGE INT, CREATED_AT TIMESTAMP); INSERT A FEW RECORDS INTO THE USERS TABLE:

INSERT INTO USERS(USER_ID, FIRST_NAME, LAST_NAME, EMAIL, AGE, CREATED_AT) VALUES(UUID(), 'MARUTI', 'MANE', 'maruti@gamil.com', 50, toTimestamp(now()));

INSERT INTO USERS(USER_ID, FIRST_NAME, LAST_NAME, EMAIL, AGE, CREATED_AT) VALUES(UUID(), 'KALPANA', 'RAUT', 'kalpana@gamil.com', 35, toTimestamp(now()));

INSERT INTO USERS(USER_ID, FIRST_NAME, LAST_NAME, EMAIL, AGE, CREATED_AT) VALUES(UUID(), 'RAJESH', 'VARDHAN', rajesh@gamil.com', 28, toTimestamp(now()));

WRITE A CQL QUERY TO RETRIEVE ALL USERS FROM THE USERS TABLE. SELECT *
FROM USERS:

user_id	age	created_at	email	first_name	last_name
2d4d250e-aab5-4470-bf6d-fd62d20e3d89	35	2024-11-22 05:24:51.449000+0000	kalpana@gamil.com	KALPANA	RAUT
b44e740b-80d4-4de7-89a5-b038af69634e	28	2024-11-22 05:30:33.981000+0000	rajesh@gamil.com	RAJESH	VARDHAN
ecbacf34-5d25-4b25-8cf9-5b6c2bf420fb	50	2024-11-22 05:24:02.543000+0000	maruti@gamil.com	MARUTI	MANE

WRITE A QUERY TO FETCH A USER BY EMAIL.

SELECT USER_ID, FIRST_NAME, LAST_NAME FROM USERS WHERE EMAIL = 'maruti@gamil.com' ALLOW FILTERING;

UPDATE THE AGE OF A USER WITH A SPECIFIC EMAIL.

SELECT user_id FROM users WHERE email = 'maruti@gamil.com';

```
token@cqlsh:user_profile> SELECT user_id FROM users WHERE email = 'maruti@gamil.com';

user_id

ecbacf34-5d25-4b25-8cf9-5b6c2bf420fb

(1 rows)
```

UPDATE USERS SET AGE = 25 WHERE USER_ID = ecbacf34-5d25-4b25-8cf95b6c2bf420fb;

token@cqlsh:user_profile> SELECT * FRO	OM user	rs WHERE email = 'maruti@gamil.com'	';		
user_id	age	created_at	email	first_name	last_name
ecbacf34-5d25-4b25-8cf9-5b6c2bf420fb	25	2024-11-22 05:24:02.543000+0000	maruti@gamil.com	MARUTI	MANE

DELETE A USER FROM THE TABLE USING THE USER_ID.

DELETE FROM USERS WHERE USER_ID = ecbacf34-5d25-4b25-8cf9-5b6c2bf420fb;

SELECT * FROM users;

