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cqlsh> CREATE KEYSPACE collegeeee
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh>
cqlsh> USE collegeeee;
cqlsh:collegeeee> CREATE TABLE Student_Info (
...     USN text PRIMARY KEY,
...     Name text,
...     Branch text,
...     Semester int,
...     CGPA float
... );

cqlsh:collegeeee>
cqlsh:collegeeee> INSERT INTO Student_Info (USN, Name, Branch, Semester, CGPA)
... VALUES ('U101','Ananya','CSE',5,8.4);
cqlsh:collegeeee>
cqlsh:collegeeee> INSERT INTO Student_Info (USN, Name, Branch, Semester, CGPA)
... VALUES ('U102','Karthik','ECE',6,7.8);
cqlsh:collegeeee>
cqlsh:collegeeee> INSERT INTO Student_Info (USN, Name, Branch, Semester, CGPA)
... VALUES ('U103','Riya','ISE',4,9.1);
cqlsh:collegeeee> UPDATE Student_Info
... SET CGPA = 8.9
... WHERE USN = 'U102';
cqlsh:collegeeee> SELECT * FROM Student_Info;

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usn	branch	cgpa	name	semester
U102	ECE	8.9	Karthik	6
U101	CSE	8.4	Ananya	5
U103	ISE	9.1	Riya	4

```

cqlsh:collegeeee> CREATE KEYSPACE libraryyyy
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:collegeeee>
cqlsh:collegeeee> USE libraryyyy;CREATE TABLE Book_Info (
...     Book_Id text PRIMARY KEY,
...     Title text,
...     Author text,
...     Price float,
...     Category text
... );
cqlsh:libraryyyy> BEGIN BATCH
... INSERT INTO Book_Info (Book_Id, Title, Author, Price, Category)
... VALUES ('B101','DBMS','Navathe',450,'Education');
...
... INSERT INTO Book_Info (Book_Id, Title, Author, Price, Category)
... VALUES ('B102','OS Concepts','Silberschatz',550,'Education');
...
... INSERT INTO Book_Info (Book_Id, Title, Author, Price, Category)
... VALUES ('B103','Python Basics','Guido',300,'Programming');
... APPLY BATCH;
cqlsh:libraryyyy> UPDATE Book_Info
... SET Price = 500
... WHERE Book_Id = 'B101';
cqlsh:libraryyyy> DELETE FROM Book_Info
... WHERE Book_Id = 'B103';
cqlsh:libraryyyy> SELECT * FROM Book_Info;

```

book_id	author	category	price	title
B102	Silberschatz	Education	550	OS Concepts
B101	Navathe	Education	500	DBMS

(2 rows)

```

cqlsh:libraryyyy> USE ecommerceeeee;
cqlsh:ecommerceeeee> CREATE TABLE Customer_Orders (
...     Order_Id text PRIMARY KEY,
...     Customer_Name text,
...     Product_Name text,
...     Quantity int,
...     Order_Date date
... );
cqlsh:ecommerceeeee> INSERT INTO Customer_Orders (Order_Id, Customer_Name, Product_Name, Quantity, Order_Date)
... VALUES ('0101','Ramesh','Mobile',1,'2025-02-10');
cqlsh:ecommerceeeee>
cqlsh:ecommerceeeee> INSERT INTO Customer_Orders (Order_Id, Customer_Name, Product_Name, Quantity, Order_Date)
... VALUES ('0102','Sita','Laptop',1,'2025-02-11');
cqlsh:ecommerceeeee>
cqlsh:ecommerceeeee> INSERT INTO Customer_Orders (Order_Id, Customer_Name, Product_Name, Quantity, Order_Date)
... VALUES ('0103','Aman','Headphones',2,'2025-02-12');
cqlsh:ecommerceeeee> ALTER TABLE Customer_Orders
... ADD Delivery_Status text;
cqlsh:ecommerceeeee> UPDATE Customer_Orders
... SET Delivery_Status = 'Delivered'
... WHERE Order_Id = '0102';
cqlsh:ecommerceeeee> SELECT * FROM Customer_Orders;

```

order_id	customer_name	delivery_status	order_date	product_name	quantity
0102	Sita	Delivered	2025-02-11	Laptop	1
0103	Aman	null	2025-02-12	Headphones	2
0101	Ramesh	null	2025-02-10	Mobile	1

(3 rows)

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cqlsh:ecommerceeeee> CREATE KEYSPACE companyyyy
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:ecommerceeeee>
cqlsh:ecommerceeeee> USE companyyyy;
cqlsh:companyyyy> CREATE TABLE Employee_Skills (
...     Emp_Id text PRIMARY KEY,
...     Emp_Name text,
...     Skills set<text>
... );
cqlsh:companyyyy> INSERT INTO Employee_Skills (Emp_Id, Emp_Name, Skills)
... VALUES ('E101','Rahul',{'Java','Python'});
cqlsh:companyyyy>
cqlsh:companyyyy> INSERT INTO Employee_Skills (Emp_Id, Emp_Name, Skills)
... VALUES ('E102','Sneha',{'SQL','C++'});
cqlsh:companyyyy> UPDATE Employee_Skills
... SET Skills = Skills + {'AWS'}
... WHERE Emp_Id = 'E101';
cqlsh:companyyyy> SELECT Emp_Name, Skills FROM Employee_Skills;

```

emp_name	skills
Rahul	{'AWS', 'Java', 'Python'}
Sneha	{'C++', 'SQL'}

(2 rows)

```

cqlsh:companyyyy> CREATE KEYSPACE storeeee
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:companyyyy>
cqlsh:companyyyy> USE storeeee;
cqlsh:storeeee> CREATE TABLE Product_Info (
...     Product_Id text PRIMARY KEY,
...     Product_Name text,
...     Price float,
...     Category text
... );
cqlsh:storeeee> INSERT INTO Product_Info (Product_Id, Product_Name, Price, Category)
... VALUES ('P101','Milk',50,'Dairy')
... USING TTL 20;
cqlsh:storeeee> SELECT * FROM Product_Info;

product_id | category | price | product_name
-----+-----+-----+-----
P101 | Dairy | 50 | Milk

(1 rows)
cqlsh:storeeee> SELECT * FROM Product_Info;

product_id | category | price | product_name
-----+-----+-----+-----

(0 rows)

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```

cqlsh:storeeee> CREATE KEYSPACE online_coursesss
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:storeeee>
cqlsh:storeeee> USE online_coursesss;
cqlsh:online_coursesss> CREATE TABLE Course_Registration (
...     Reg_Id text PRIMARY KEY,
...     Student_Name text,
...     Course_Name text,
...     Registration_Date date
... );
cqlsh:online_coursesss> INSERT INTO Course_Registration (Reg_Id, Student_Name, Course_Name, Registration_Date)
... VALUES ('R101','Ananya','DBMS','2025-02-01');
cqlsh:online_coursesss>
cqlsh:online_coursesss> INSERT INTO Course_Registration (Reg_Id, Student_Name, Course_Name, Registration_Date)
... VALUES ('R102','Karthik','OS','2025-02-02');
cqlsh:online_coursesss>
cqlsh:online_coursesss> INSERT INTO Course_Registration (Reg_Id, Student_Name, Course_Name, Registration_Date)
... VALUES ('R103','Riya','Python','2025-02-03');
cqlsh:online_coursesss> ALTER TABLE Course_Registration
... ADD Payment_Status text;
cqlsh:online_coursesss> UPDATE Course_Registration
... SET Payment_Status = 'Paid'
... WHERE Reg_Id = 'R102';
cqlsh:online_coursesss> INSERT INTO Course_Registration (Reg_Id, Student_Name, Course_Name, Registration_Date)
... VALUES ('R104','Aman','AI','2025-02-04')
... USING TTL 30;
cqlsh:online_coursesss> SELECT * FROM Course_Registration;

reg_id | course_name | payment_status | registration_date | student_name
-----+-----+-----+-----+-----
R102 | OS | Paid | 2025-02-02 | Karthik
R104 | AI | null | 2025-02-04 | Aman
R103 | Python | null | 2025-02-03 | Riya
R101 | DBMS | null | 2025-02-01 | Ananya

(4 rows)
cqlsh:online_coursesss> SELECT * FROM Course_Registration;

reg_id | course_name | payment_status | registration_date | student_name
-----+-----+-----+-----+-----
R102 | OS | Paid | 2025-02-02 | Karthik
R103 | Python | null | 2025-02-03 | Riya
R101 | DBMS | null | 2025-02-01 | Ananya

(3 rows)

```

```

cqlsh:online_courses> CREATE KEYSPACE restaurantttt
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:online_courses>
cqlsh:online_courses> USE restaurantttt;
cqlsh:restaurantttt> CREATE TABLE Orders (
...     Order_Id text PRIMARY KEY,
...     Customer_Name text,
...     Item_Name text,
...     Quantity int,
...     Bill_Amount float
... );
cqlsh:restaurantttt> BEGIN BATCH
... INSERT INTO Orders (Order_Id, Customer_Name, Item_Name, Quantity, Bill_Amount)
... VALUES ('0201','Rahul','Pizza',2,400);
...
... INSERT INTO Orders (Order_Id, Customer_Name, Item_Name, Quantity, Bill_Amount)
... VALUES ('0202','Sneha','Burger',1,150);
...
... INSERT INTO Orders (Order_Id, Customer_Name, Item_Name, Quantity, Bill_Amount)
... VALUES ('0203','Amit','Pasta',1,200);
... APPLY BATCH;
cqlsh:restaurantttt> UPDATE Orders
... SET Bill_Amount = 450
... WHERE Order_Id = '0201';
cqlsh:restaurantttt> DELETE FROM Orders
... WHERE Order_Id = '0202';
cqlsh:restaurantttt> SELECT * FROM Orders;

```

order_id	bill_amount	customer_name	item_name	quantity
0203	200	Amit	Pasta	1
0201	450	Rahul	Pizza	2

```

cqlsh:restaurantttt> CREATE KEYSPACE moviesyyy
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:restaurantttt>
cqlsh:restaurantttt> USE moviesyyy;
cqlsh:moviesyyy> CREATE TABLE Movie_Ratings (
...     Movie_Id text PRIMARY KEY,
...     Movie_Name text,
...     Ratings map<text,int>
... );
cqlsh:moviesyyy> INSERT INTO Movie_Ratings (Movie_Id, Movie_Name, Ratings)
... VALUES ('M101','Inception',{'User1':5,'User2':4});
cqlsh:moviesyyy> UPDATE Movie_Ratings
... SET Ratings = Ratings + {'User3':5}
... WHERE Movie_Id = 'M101';
cqlsh:moviesyyy> UPDATE Movie_Ratings
... SET Ratings['User2'] = 5
... WHERE Movie_Id = 'M101';
cqlsh:moviesyyy> SELECT Ratings FROM Movie_Ratings
... WHERE Movie_Id = 'M101';

```

ratings

```

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{'User1': 5, 'User2': 5, 'User3': 5}

```

```

cqlsh:moviesyyy> CREATE KEYSPACE shoppingggg
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:moviesyyy>
cqlsh:shoppingggg> USE shoppingggg;
cqlsh:shoppingggg> CREATE TABLE Cart (
...     Cart_Id text PRIMARY KEY,
...     User_Name text,
...     Items list<text>
... );
cqlsh:shoppingggg> INSERT INTO Cart (Cart_Id, User_Name, Items)
... VALUES ('C101','Riya',['Shoes','Dress','Bag']);
cqlsh:shoppingggg> UPDATE Cart
... SET Items = Items + ['Watch']
... WHERE Cart_Id = 'C101';
cqlsh:shoppingggg> UPDATE Cart
... SET Items = Items - ['Bag']
... WHERE Cart_Id = 'C101';
cqlsh:shoppingggg> INSERT INTO Cart (Cart_Id, User_Name, Items)
... VALUES ('C102','Aman',['Laptop','Mouse'])
... USING TTL 60;
cqlsh:shoppingggg> SELECT * FROM Cart;

  cart_id | items                | user_name
-----+-----+-----
    C102 | ['Laptop', 'Mouse'] |      Aman
    C101 | ['Shoes', 'Dress', 'Watch'] |     Riya

(2 rows)
cqlsh:shoppingggg> SELECT * FROM Cart;

  cart_id | items                | user_name
-----+-----+-----
    C101 | ['Shoes', 'Dress', 'Watch'] |     Riya

(1 rows)

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(1 rows)
cqlsh:shoppingggg> CREATE KEYSPACE bankingggg
... WITH replication = {'class':'SimpleStrategy','replication_factor':1};
cqlsh:shoppingggg>
cqlsh:shoppingggg> USE bankingggg;
cqlsh:bankingggg> CREATE TABLE Account_Transactions (
...     Account_No text PRIMARY KEY,
...     Balance counter
... );
cqlsh:bankingggg> UPDATE Account_Transactions
... SET Balance = Balance + 500
... WHERE Account_No = 'AC101';
cqlsh:bankingggg>
cqlsh:bankingggg> UPDATE Account_Transactions
... SET Balance = Balance + 300
... WHERE Account_No = 'AC101';
cqlsh:bankingggg> UPDATE Account_Transactions
... SET Balance = Balance - 200
... WHERE Account_No = 'AC101';
cqlsh:bankingggg> SELECT * FROM Account_Transactions
... WHERE Account_No = 'AC101';

  account_no | balance
-----+-----
    AC101 |      600

(1 rows)

```

