

Way to run Cassandra

1) Open a command prompt --> Type Cassandra  
Last message should be --> INFO [main] 2023-10-11 15:06:12,961 StorageService.java:2484 - Node localhost/127.0.0.1 state jump to NORMAL

2) Open second command prompt --> Type cqlsh

- 3) show host;
- 4) show version;
- 5) help;

Keyspace = Database

6) Listing the available keysapces

SHOW KEYSPACES;

7) Creating a new KEYSPACE

CREATE KEYSPACE dbdablr WITH replication = {'class':'SimpleStrategy', 'replication\_factor' : 1};

8) Creating the table

CREATE TABLE member(mid text PRIMARY KEY,mname text,gender text);

9) Inserting the value

INSERT INTO member(mid,mname,gender) values('M001','Aditya','Male'); <- writing column names is mandatory

10) Update

update member set mname = 'Riva' where mid = 'M002';

11) Truncate

TRUNCATE table member;

12) ALTER

ALTER table member add age int;  
ALTER table member drop gender;

13) Drop

Drop Table member;

14) Batch

Begin Batch

```
insert into member(mid, mname, age) values ('m001','Shikha',23);
insert into member(mid, mname, age) values ('m002','Vivek',25);
insert into member(mid, age) values ('m003',25);
```

Apply Batch ;

Begin Batch

```
update member set mname = 'Rupesh' where mid = 'm002';
delete from member where mid = 'm001' ;
```

Apply Batch ;

15) Collections - Data Type - Used to store the multiple values in a single variable

**LIST** - Duplicate values will be retained

Create table author (id int, authorname text, country text , bookwritten list <text> ) ;  
insert into author (id, authorname, country , bookwritten) values ( 1, 'Chetan Bhagat', 'India', ['3 Mistakes of My Life','One Indian Girl']);

**SET** - Duplicate values will be ignored

CREATE table authorSet (id int, authorname text, country text , bookwritten set <variant>);  
insert into authorset (id, authorname, country, bookwritten) values (1,'Chetan Bhagat','India',{'2 states','3 mistakes','2 states'});

**MAP** - Used to store key-value pair of data

CREATE table authorMap(authorname text primary key, country map <text, text>);  
insert into authormap (authorname, country) values ('Robin Sharma' , {BaseCountry: 'India', CurrentCountry:'Canada'});

UPDATE authormap SET country = country+{'CurrentCountry':'Singapore'} WHERE authorname = 'Robin Sharma';

16) To list all the user defined datatypes....

describe types;

CREATE TYPE player\_details (age int, country text, runScored int );

Create table player\_info (name text primary key, details FROZEN<player\_details>);  
insert into player\_info (name , details) values ('Uvraj' , {age: 34, country: 'India' , runScored: 2340 });