

Practical#9

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Course Code and Name: 2CS702 Big Data Analytics

Batch: D1

Aim:

Apache Cassandra Exploration & CRUD Operations.

1. Describe Keyspaces

```
desc keyspaces
```

```
Connected as 19bce239@nirmauni.ac.in.  
Connected to cndb at cassandra.ingress:9042.  
[cqlsh 6.8.0 | Cassandra 4.0.0.6816 | CQL spec 3.4.5 | Native protocol v4]  
Use HELP for help.  
token@cqlsh> desc keyspaces  
  
"Practicals"  system          datastax_sla  
system_auth  system_traces   system_virtual_schema  
system_schema data_endpoint_auth system_views  
  
token@cqlsh> █
```

2. Use Keyspace

```
use "Practicals";
```

```
token@cqlsh> use Practicals
... ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Keyspace 'practicals' does not exist"
token@cqlsh> use Practicals ;
InvalidRequest: Error from server: code=2200 [Invalid query] message="Keyspace 'practicals' does not exist"
token@cqlsh> use "Practicals" ;
token@cqlsh:Practicals> █
```

Create

3. Create users table

```
create table if not exists users (
    email TEXT,
    name TEXT,
    password TEXT,
    user_id UUID,
    primary key ((email))
);
```

```
... );
SyntaxException: line 6:11 no viable alternative at input '(' (...TEXT,user_id UUID,primary_id [()...)
token@cqlsh:Practicals> create table if not exists users ( email TEXT, name TEXT, password TEXT, user_id UUID, primary key ((email)) );
token@cqlsh:Practicals> █
```

4. Describe tables

```
desc tables;
```

```
token@cqlsh:Practicals> desc tables;  
  
users
```

5. Insert data into users

```
insert into users(  
    ... email, name, password, user_id  
    ... )  
    ... values  
    ... ('19bce239@nirmauni.ac.in',  
    ... 'Saurin Prajapati',  
    ... 'yoYo@123',  
    ... 11111111-1111-1111-1111-111111111111  
    ... );
```

```
token@cqlsh:Practicals> insert into users( email, name, password, user_id ) values ('19bce239@nirmauni.ac.in', 'Saurin Prajapati', 'yoYo@123', 11111111-1111-1111-1111-111111111111 );  
token@cqlsh:Practicals> █
```

Retrieve

6. Read whole users table

```
select * from users;
```

```
token@cqlsh:Practicals> select * from users;
```

email	name	password	user_id
19bce239@nirmauni.ac.in	Saurin Prajapati	yoYo@123	11111111-1111-1111-1111-111111111111

```
(1 rows)
token@cqlsh:Practicals> █
```

Update

7. Update users table

```
update users
... set password = 'PasswordOfSaurin'
... where email = '19bce239@nirmauni.ac.in';
```

Before:

```
token@cqlsh> desc keyspaces

"Practicals"  system          datastax_sla
system_auth   system_traces    system_virtual_schema
system_schema data_endpoint_auth system_views

token@cqlsh> use "Practicals";
token@cqlsh:Practicals> select * from users;
```

email	name	password	user_id
19bce239@nirmauni.ac.in	Saurin Prajapati	yoYo@123	11111111-1111-1111-1111-111111111111

```
(1 rows)
```

After:

```
token@cqlsh:Practicals> update users
... set password = 'PasswordOfSaurin'
... where email = '19bce239@nirmauni.ac.in';
token@cqlsh:Practicals> select * from users;
```

email	name	password	user_id
19bce239@nirmauni.ac.in	Saurin Prajapati	PasswordOfSaurin	11111111-1111-1111-1111-111111111111

```
(1 rows)
```

Delete

8. Delete row from users table

```
delete from users
where email = '19bce239@nirmauni.ac.in';
```

After:

```
token@cqlsh:Practicals> delete from users
... where email = '19bce239@nirmauni.ac.in';
token@cqlsh:Practicals> select * from users;

email | name | password | user_id
-----+-----+-----+-----
(0 rows)
token@cqlsh:Practicals> █
```

Thank You!