CQL Basics Operations

cqlsh

Keyspace

Create a keyspace

similar to Database in SQL

```
CREATE KEYSPACE admatic WITH replication = {'class':'SimpleStrategy', 'r
eplication_factor': 3};

CREATE KEYSPACE admatic WITH replication = {'class': 'NetworkTopologySt
rategy', 'dc1': 2, 'dc2': 2};
```

Using the keyspace that was created

```
use admatic;
```

Lising all keyspaces

```
DESCRIBE keyspaces;
```

Alter a keyspace

```
ALTER KEYSPACE admatic WITH replication = {'class':'NetworkTopologyStrategy'};
```

Drop keyspaces

```
DROP KEYSPACE admatic;
```

CRUD Operations

1. Creating a table

Syntax

```
CREATE (TABLE | COLUMNFAMILY) <tablename>
('<column-definition>' , '<column-definition>')
(WITH <option> AND <option>)
```

COLUMNEAMILY syntax is supported as an alias for TABLE (for historical reasons)

Examples

```
CREATE TABLE emp(
emp_id int PRIMARY KEY,
emp_name text,
emp_city text,
emp_sal varint,
emp_phone varint
);
```

```
CREATE TABLE monkeySpecies (
    species text PRIMARY KEY,
    common_name text,
    population varint,
    average_size int
) WITH comment='Important biological records'
AND read_repair_chance = 1.0;
```

```
CREATE COLUMNFAMILY timeline (
    userid uuid,
    posted_month int,
    posted_time uuid,
    body text,
    posted_by text,
    PRIMARY KEY (userid, posted_month, posted_time)
) WITH compaction = { 'class' : 'LeveledCompactionStrategy' };
```

Output

```
select * from emp;
emp_id | emp_city | emp_name | emp_phone | emp_sal
```

```
(0 rows)
```

2. Capture query outputs to a text file

Syntax

```
CAPTURE '<Output_File_Path>'
```

Example

```
CAPTURE '/home/hadoop/Cassandra_capture.txt'

Now capturing query output to '/home/hadoop/Cassandra_capture.txt'.
```

```
select * from emp;
```

Output

3. Display the table

```
select * from emp;
```

4. Inserting data into table

Example

```
INSERT INTO emp (emp_id, emp_name, emp_city, emp_phone, emp_sal) VALUES(
1,'ram', 'Hyderabad', 9848022338, 50000);
INSERT INTO emp (emp_id, emp_name, emp_city, emp_phone, emp_sal) VALUES(
2,'robin', 'Hyderabad', 9848022339, 40000);
INSERT INTO emp (emp_id, emp_name, emp_city, emp_phone, emp_sal) VALUES(
3,'rahman', 'Chennai', 9848022330, 45000);
```

Output

5. Update Data

Example

```
UPDATE emp SET emp_city='Delhi',emp_sal=50000 WHERE emp_id=2;
```

Output

6. Deleting a value from row

Example

```
DELETE emp_sal FROM emp WHERE emp_id=3;
```

Output

```
1 | Hyderabad | ram | 9848022338 | 50000
2 | Delhi | robin | 9848022339 | 50000
3 | Chennai | rahman | 9848022330 | null
(3 rows)
```

7. Deleting an entire row

Example

```
DELETE FROM emp WHERE emp_id=3;
```

Output