Parth Patel 170280116075

# Practical - 7

## Aim: Working with NoSQL Databases.(Cassandra)

- 1. Install Cassandra on your operating system.
  - a. Install jdk 8 or above.
  - b. Go to Apache Cassandra Download Page. And Download the latest version. The latest version at that time is cassandra-3.11.4
  - Unzip it and place all files inside sub folder into "C:\ProgramFiles\apache-cassandra-3.11.8".
  - Edit Cassandra.bat and add JAVA\_HOME path.
  - Save the cassandra.bat then run "cassandra.bat -f" with CMD Run as Administrator. Don't close this window.

```
C:VolRDOWS-system32)cd .//.

C:Vod Program Files Namache-cassandra 3.11.8\bin C:Norporgam Files Namache-cassandra 3.11.
```

c. Install Python2.7 to run Cassandra Query shell cglsh.

```
C:\Program Files\apache-cassandra-3.11.8\bin>cqlsh
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 3.11.8 | CQL spec 3.4.4 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing. Install to enable tab completion.
cqlsh>
```

BDA 1

Parth Patel 170280116075

2. Consider a domain of your choice and create a key space suitable for the given domain.

```
cqlsh> CREATE KEYSPACE employee WITH replication = {'class':'SimpleStrategy', 'replication_factor' : 3};
cqlsh>
```

3. For the chosen domain, create two tables suitable for the key space.

- 4. Demonstrate the basic database operations create, delete, update, select, delete on the given tables.
  - Create data

```
invalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table em0"

cqlsh> select * from employee.emp;

emp_id | emp_name | emp_sal |

invalidRequest: Error from server: code=2200 [Invalid query] message="unconfigured table em0"

cqlsh> select * from employee.emp;

emp_id | emp_city | emp_name | emp_phone | emp_sal |

i | Hyderabad | ram | 9848022338 | 50000

2 | Hyderabad | robin | 9848022339 | 46000

3 | Chennai | rahman | 9848022330 | 45000

(3 rows)

cqlsh>
```

Update

```
cqlsh> select * from employee.emp;
emp_id | emp_city | emp_name | emp_phone | emp_sal
      Hyderabad
                       9848022338
                                  50000
                   ram
         Delhi
                 robin
                       9848022339
                                  50000
                 rahman | 9848022330
                                  45000
        Chennai
(3 rows)
cqlsh>
```

BDA 2

Parth Patel 170280116075

#### Delete

#### Select

### 5. Drop the tables and key space created.

#### • Drop Table

```
cqlsh> drop table employee.emp;

Keyspace system_traces
-----events sessions
```

#### Drop Keyspaces

```
cqlsh> drop keyspace employee;
cqlsh> describe keyspaces;
system_schema system_auth system system_distributed system_traces
```

BDA 3