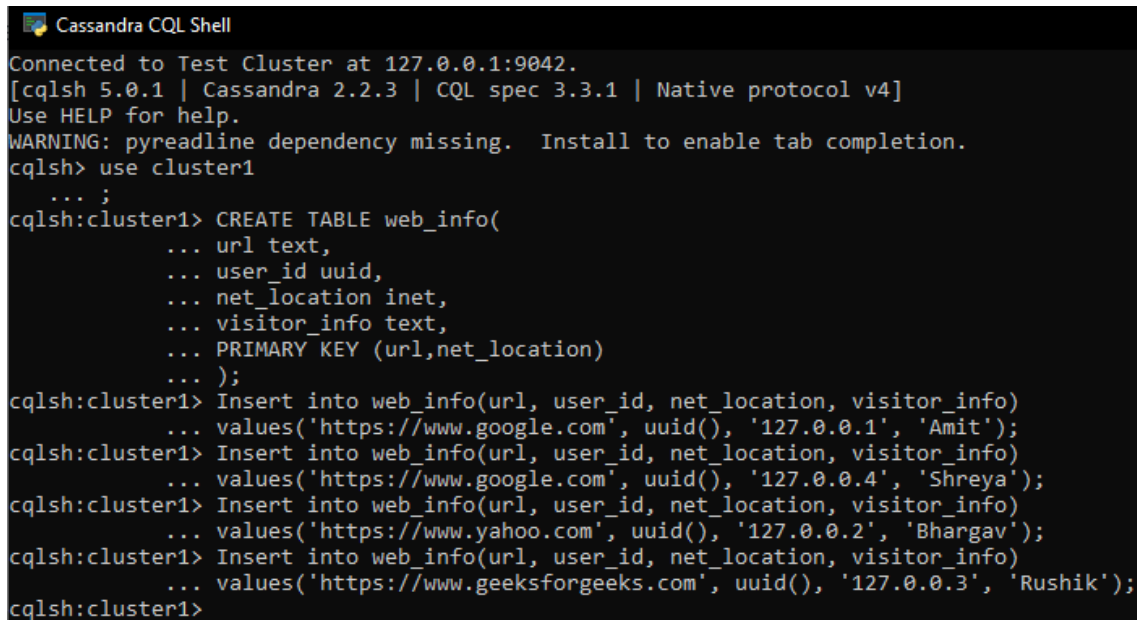# Cassandra Shell Queries

Amit Kumar Sahu

18mis7250

#Creating Key Space

```
create keyspace cluster1
WITH replication = {'class': 'SimpleStrategy',
                    'replication_factor' : 3};
```
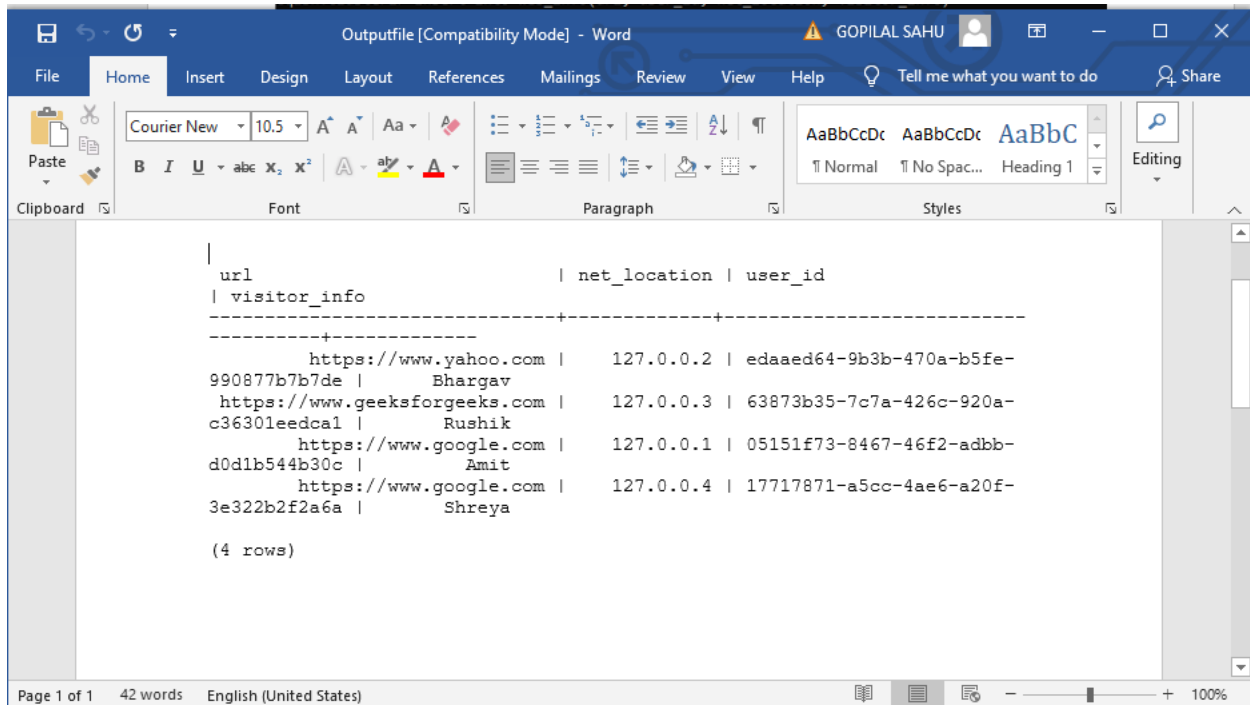
```
Cassandra CQL Shell
Connected to Test Cluster at 127.0.0.1:9042.
[cqlsh 5.0.1 | Cassandra 2.2.3 | CQL spec 3.3.1 | Native protocol v4]
Use HELP for help.
WARNING: pyreadline dependency missing.  Install to enable tab completion.
cqlsh> use cluster1
   ... ;
cqlsh:cluster1> CREATE TABLE web_info(
          ... url text,
          ... user_id uuid,
          ... net_location inet,
          ... visitor_info text,
          ... PRIMARY KEY (url,net_location)
          ... );
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
          ... values('https://www.google.com', uuid(), '127.0.0.1', 'Amit');
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
          ... values('https://www.google.com', uuid(), '127.0.0.4', 'Shreya');
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
          ... values('https://www.yahoo.com', uuid(), '127.0.0.2', 'Bhargav');
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
          ... values('https://www.geeksforgeeks.com', uuid(), '127.0.0.3', 'Rushik');
cqlsh:cluster1>
```

#Capturing and storing in output file

```
cqlsh:cluster1> CAPTURE 'C:/Users/Admin/Downloads/CassandraProgs/Outputfile'
Now capturing query output to 'C:/Users/Admin/Downloads/CassandraProgs/Outputfile'.
cqlsh:cluster1>
cqlsh:cluster1>
cqlsh:cluster1> select * from web_info;
cqlsh:cluster1>
```

#Screenshot of saved file


```
    url                        | net_location | user_id
    | visitor_info
    --------------------------------+--------------+--------------------------
    ----------+-------------
            https://www.yahoo.com |    127.0.0.2 | edaaed64-9b3b-470a-b5fe-
    990877b7b7de |       Bhargav
     https://www.geeksforgeeks.com |    127.0.0.3 | 63873b35-7c7a-426c-920a-
    c36301eedca1 |       Rushik
            https://www.google.com |    127.0.0.1 | 05151f73-8467-46f2-adbb-
    d0d1b544b30c |         Amit
            https://www.google.com |    127.0.0.4 | 17717871-a5cc-4ae6-a20f-
    3e322b2f2a6a |       Shreya

    (4 rows)
```

#Queries

```
cqlsh:cluster1>
cqlsh:cluster1> capture off;
cqlsh:cluster1> select * from web_info;

 url                           | net_location | user_id                              | visitor_info
-------------------------------+--------------+--------------------------------------+--------------
         https://www.yahoo.com |    127.0.0.2 | edaaed64-9b3b-470a-b5fe-990877b7b7de |      Bhargav
 https://www.geeksforgeeks.com |    127.0.0.3 | 63873b35-7c7a-426c-920a-c36301eedca1 |       Rushik
        https://www.google.com |    127.0.0.1 | 05151f73-8467-46f2-adbb-d0d1b544b30c |         Amit
        https://www.google.com |    127.0.0.4 | 17717871-a5cc-4ae6-a20f-3e322b2f2a6a |       Shreya

(4 rows)
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
           ... values('https://www.geeksforgeeks.com', uuid(), '127.0.3.2', 'Aniket');
cqlsh:cluster1> select * from web_info limit 3;

 url                           | net_location | user_id                              | visitor_info
-------------------------------+--------------+--------------------------------------+--------------
         https://www.yahoo.com |    127.0.0.2 | edaaed64-9b3b-470a-b5fe-990877b7b7de |      Bhargav
 https://www.geeksforgeeks.com |    127.0.0.3 | 63873b35-7c7a-426c-920a-c36301eedca1 |       Rushik
 https://www.geeksforgeeks.com |    127.0.3.2 | d0d2b828-1c56-4e64-a7c2-1ef8eda260a0 |       Aniket

(3 rows)
```

```
cqlsh:cluster1> select * from web_info
           ... where url='https://www.google.com';

 url                   | net_location | user_id                              | visitor_info
-----------------------+--------------+--------------------------------------+--------------
 https://www.google.com |    127.0.0.1 | 05151f73-8467-46f2-adbb-d0d1b544b30c |         Amit
 https://www.google.com |    127.0.0.4 | 17717871-a5cc-4ae6-a20f-3e322b2f2a6a |       Shreya

(2 rows)
```

```
cqlsh:cluster1> Insert into web_info(url, user_id, net_location, visitor_info)
           ... values('https://www.geeksforgeeks.com', uuid(), '127.0.0.3', 'Ashish_rana');
cqlsh:cluster1> BEGIN BATCH
           ... UPDATE web_info USING TTL 345600
           ... SET visitor_info = 'Ashish rana'
           ... WHERE url='https://www.google.com' and net_location = '127.0.0.1';
           ...
           ... Delete visitor_info
           ... FROM web_info
           ... where url='https://www.google.com' and net_location = '127.0.0.1';
           ...
           ...
           ... Insert into web_info(url, user_id, net_location, visitor_info)
           ... values('https://www.geeksforgeeks.com', uuid(), '127.0.0.5', 'new_user');
           ... APPLY BATCH;
cqlsh:cluster1>
```

```
cqlsh:cluster1>
cqlsh:cluster1> select *
           ... from web_info;

 url                           | net_location | user_id                              | visitor_info
-------------------------------+--------------+--------------------------------------+--------------
        https://www.yahoo.com |    127.0.0.2 | edaaed64-9b3b-470a-b5fe-990877b7b7de |      Bhargav
 https://www.geeksforgeeks.com |    127.0.0.3 | 40c8f849-dccf-41cc-ba7d-b229a3baf513 |  Ashish_rana
 https://www.geeksforgeeks.com |    127.0.0.5 | 56ac4200-8969-4522-a7a3-2c9cf8f2569d |     new_user
 https://www.geeksforgeeks.com |    127.0.3.2 | d0d2b828-1c56-4e64-a7c2-1ef8eda260a0 |       Aniket
        https://www.google.com |    127.0.0.1 | 05151f73-8467-46f2-adbb-d0d1b544b30c |         null
        https://www.google.com |    127.0.0.4 | 17717871-a5cc-4ae6-a20f-3e322b2f2a6a |       Shreya

(6 rows)
cqlsh:cluster1> UPDATE web_info
           ... SET visitor_info = 'login at academy portal'
           ... WHERE url='https://www.google.com' and net_location = '127.0.0.1';
cqlsh:cluster1>
cqlsh:cluster1>
```

```
cqlsh:cluster1>
cqlsh:cluster1> select *
          ... from web_info;

 url                          | net_location | user_id                              | visitor_info
------------------------------+--------------+--------------------------------------+------------------------
       https://www.yahoo.com |    127.0.0.2 | edaaed64-9b3b-470a-b5fe-990877b7b7de |                Bhargav
 https://www.geeksforgeeks.com |  127.0.0.3 | 40c8f849-dccf-41cc-ba7d-b229a3baf513 |            Ashish_rana
 https://www.geeksforgeeks.com |  127.0.0.5 | 56ac4200-8969-4522-a7a3-2c9cf8f2569d |               new_user
 https://www.geeksforgeeks.com |  127.0.3.2 | d0d2b828-1c56-4e64-a7c2-1ef8eda260a0 |                 Aniket
      https://www.google.com |    127.0.0.1 | 05151f73-8467-46f2-adbb-d0d1b544b30c | login at academy portal
      https://www.google.com |    127.0.0.4 | 17717871-a5cc-4ae6-a20f-3e322b2f2a6a |                 Shreya

(6 rows)
cqlsh:cluster1>
```

Reference: https://www.geeksforgeeks.org/useful-cql-query-in-cassandra/