BTS – MBDS Big Data Infrastructure

A7: Cassandra Column DB

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1. Cassandra Column DB

Docker Run

Testing connection to server

```
> telnet 0.0.0.0 9042
Trying 0.0.0.0...
Connected to 0.0.0.0.
Escape character is '^]'.
```

Testing in Python - create keyspace

```
In [1]: from cassandra.cluster import Cluster
        cluster = Cluster()
In [2]: session = cluster.connect()
In [ ]: query = session.execute("""CREATE KEYSPACE emp
        WITH replication = {'class':'SimpleStrategy', 'replication factor' : 1};""")
In [3]: query = session.execute("""SELECT * FROM system schema.keyspaces;""")
        for row in query:
            print(row[0])
        system auth
        system schema
        dse system local
        dse system
        dse leases
        solr admin
        dse insights
        dse insights local
        tutorialspoint
        system distributed
        system backups
        system
        dse perf
        system traces
        dse security
```

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Create table

```
query = session.execute("""CREATE TABLE emp(
    emp_id int PRIMARY KEY,
    emp_name text,
    emp_city text,
    emp_sal varint,
    emp_phone varint
    );""")

for row in query:
    print(row)
```

Add data points and query it