**Exercise 7b**

*More Cassandra*

**Prior Knowledge**

Unix Command Line Shell

Cassandra exercise

**Learning Objectives**

Better understand Cassandra’s CQL shell and CQL

**Software Requirements**

(see separate document for installation of these)

* Apache Cassandra 2.2.3

Part A

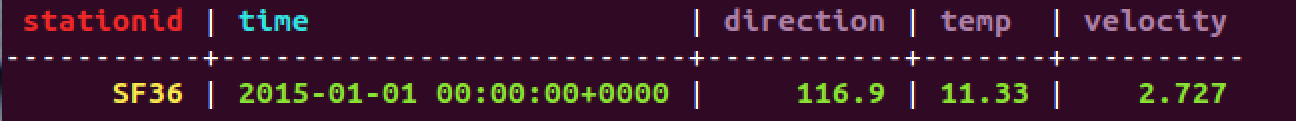
1. Make sure Cassandra is running
   1. In a Terminal window (Crtl-Alt-T) type:  
      service cassandra status
   2. You should see  
      \* Cassandra is running
   3. If not, try   
      sudo service cassandra start  
      and then check the status again
2. Now you can start the Cassandra Shell:  
   Type:

cqlsh  
  
You should see:  
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.

cqlsh>

1. First, let’s try some queries on the data.
2. use wind;
3. Try  
   select \* from winddata where time = '2015-01-01' and stationid = 'SF36';  
   You should see:  
   
4. Now try  
   select \* from winddata where time <= '2015-01-02' and stationid = 'SF36' limit 20;  
     
   All normal:

stationid | time | direction | temp | velocity

-----------+--------------------------+-----------+-------+----------

SF36 | 2015-01-01 00:00:00+0000 | 116.9 | 11.33 | 2.727

SF36 | 2015-01-01 00:05:00+0000 | 108.5 | 11.25 | 1.814

SF36 | 2015-01-01 00:10:00+0000 | 113.7 | 11.2 | 2.621

SF36 | 2015-01-01 00:15:00+0000 | 117.8 | 11.11 | 3.678

SF36 | 2015-01-01 00:20:00+0000 | 117.3 | 11.07 | 2.842

SF36 | 2015-01-01 00:25:00+0000 | 117.3 | 11.07 | 2.629

SF36 | 2015-01-01 00:30:00+0000 | 117.3 | 11.09 | 2.235

SF36 | 2015-01-01 00:35:00+0000 | 117.2 | 11.09 | 2.043

SF36 | 2015-01-01 00:40:00+0000 | 117.2 | 11.05 | 1.635

SF36 | 2015-01-01 00:45:00+0000 | 117.3 | 10.93 | 2.224

SF36 | 2015-01-01 00:50:00+0000 | 112.5 | 10.86 | 1.822

SF36 | 2015-01-01 00:55:00+0000 | 108.7 | 10.8 | 0.866

SF36 | 2015-01-01 01:00:00+0000 | 108.7 | 10.67 | 1.068

SF36 | 2015-01-01 01:05:00+0000 | 108.6 | 10.54 | 1.393

SF36 | 2015-01-01 01:10:00+0000 | 108.7 | 10.44 | 1.468

SF36 | 2015-01-01 01:15:00+0000 | 108.9 | 10.37 | 1.859

SF36 | 2015-01-01 01:20:00+0000 | 108.6 | 10.29 | 1.67

SF36 | 2015-01-01 01:25:00+0000 | 108.6 | 10.25 | 1.241

SF36 | 2015-01-01 01:30:00+0000 | 108.5 | 10.21 | 0.675

SF36 | 2015-01-01 01:35:00+0000 | 108.4 | 10.26 | 0.623

(20 rows)

1. Now another:   
   select \* from winddata where time <= '2015-01-01 01:00:00' and stationid in ('SF37', 'SF36');

stationid | time | direction | temp | velocity

-----------+--------------------------+-----------+-------+----------

SF36 | 2015-01-01 00:00:00+0000 | 116.9 | 11.33 | 2.727

SF36 | 2015-01-01 00:05:00+0000 | 108.5 | 11.25 | 1.814

SF36 | 2015-01-01 00:10:00+0000 | 113.7 | 11.2 | 2.621

SF36 | 2015-01-01 00:15:00+0000 | 117.8 | 11.11 | 3.678

SF36 | 2015-01-01 00:20:00+0000 | 117.3 | 11.07 | 2.842

SF36 | 2015-01-01 00:25:00+0000 | 117.3 | 11.07 | 2.629

SF36 | 2015-01-01 00:30:00+0000 | 117.3 | 11.09 | 2.235

SF36 | 2015-01-01 00:35:00+0000 | 117.2 | 11.09 | 2.043

SF36 | 2015-01-01 00:40:00+0000 | 117.2 | 11.05 | 1.635

SF36 | 2015-01-01 00:45:00+0000 | 117.3 | 10.93 | 2.224

SF36 | 2015-01-01 00:50:00+0000 | 112.5 | 10.86 | 1.822

SF36 | 2015-01-01 00:55:00+0000 | 108.7 | 10.8 | 0.866

SF36 | 2015-01-01 01:00:00+0000 | 108.7 | 10.67 | 1.068

SF37 | 2015-01-01 00:00:00+0000 | 252.3 | 11.11 | 3.774

SF37 | 2015-01-01 00:05:00+0000 | 273.89999 | 10.75 | 2.69

SF37 | 2015-01-01 00:10:00+0000 | 299.79999 | 11.1 | 1.747

SF37 | 2015-01-01 00:15:00+0000 | 303.5 | 11.65 | 1.534

SF37 | 2015-01-01 00:20:00+0000 | 282.79999 | 10.27 | 2.269

SF37 | 2015-01-01 00:25:00+0000 | 281.70001 | 9.72 | 2.141

SF37 | 2015-01-01 00:30:00+0000 | 292.70001 | 9.78 | 1.054

SF37 | 2015-01-01 00:35:00+0000 | 280.39999 | 9.53 | 2.36

SF37 | 2015-01-01 00:40:00+0000 | 280.29999 | 9.3 | 2.155

SF37 | 2015-01-01 00:45:00+0000 | 266.10001 | 9.37 | 3.1

SF37 | 2015-01-01 00:50:00+0000 | 272 | 9.46 | 2.703

SF37 | 2015-01-01 00:55:00+0000 | 265.39999 | 9.54 | 3.026

SF37 | 2015-01-01 01:00:00+0000 | 291.60001 | 9.7 | 1.508

(26 rows)