**INFSCI 2750: Cloud Computing**

**Mini Project 3**

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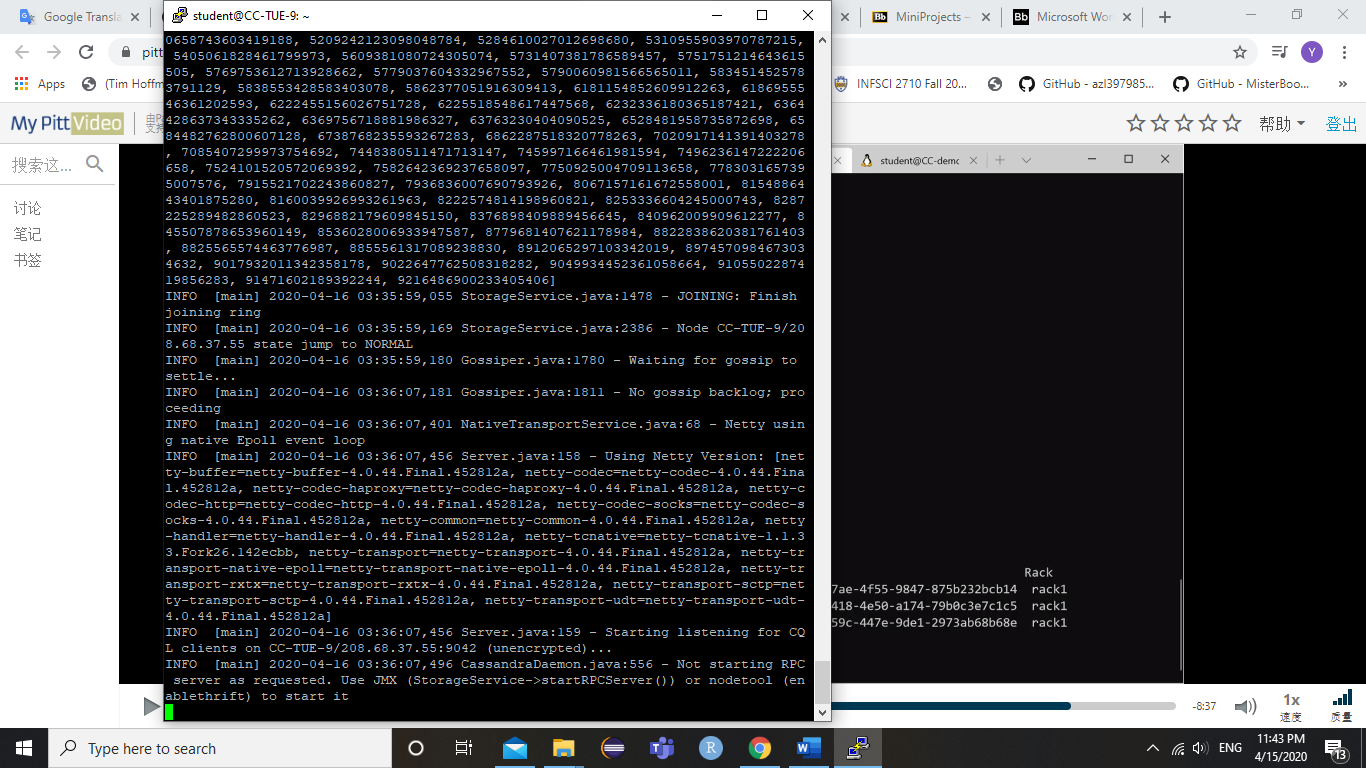
# Xuezhi Xu xux15@pitt.edu

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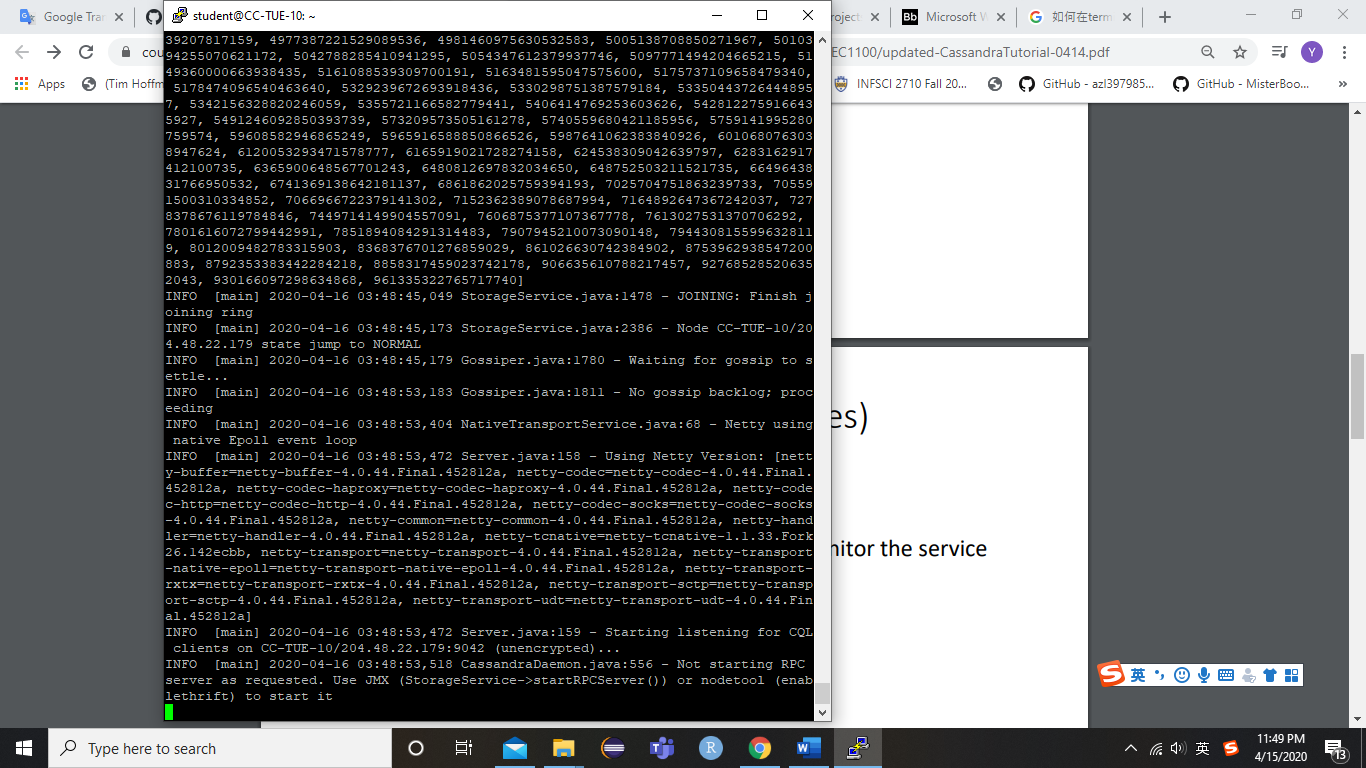
# Part 1: Setting up Cassandra

* Start the Cassandra process on all the nodes manually to monitor the service status and logs:

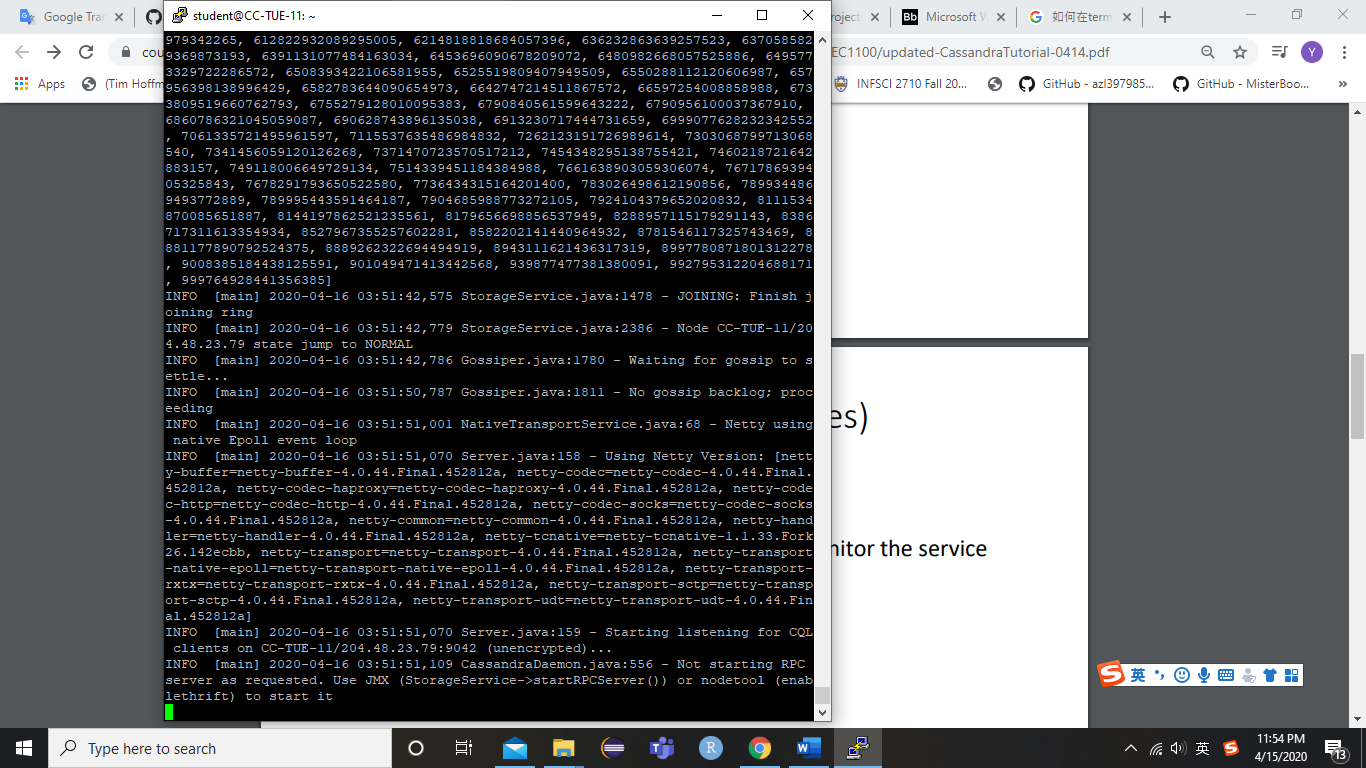
Master machine:



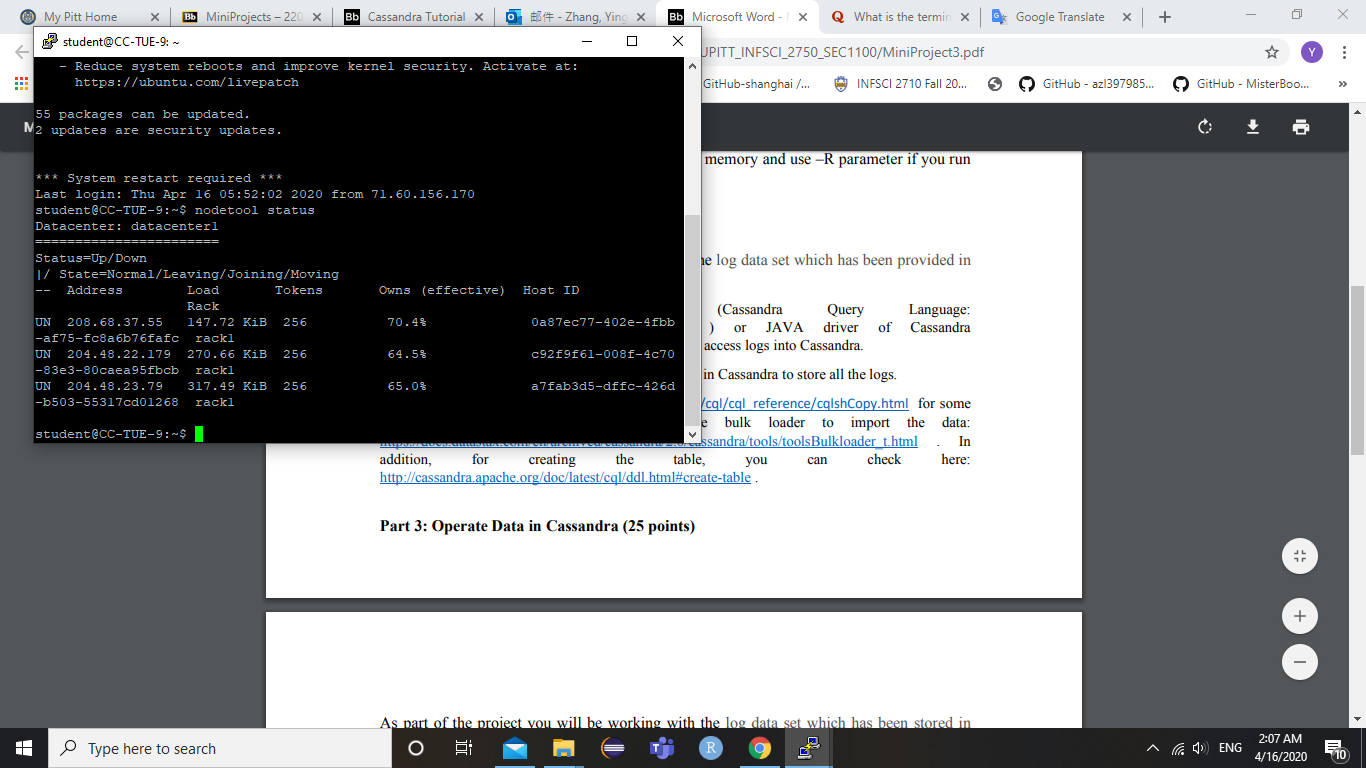
Slave Machine:



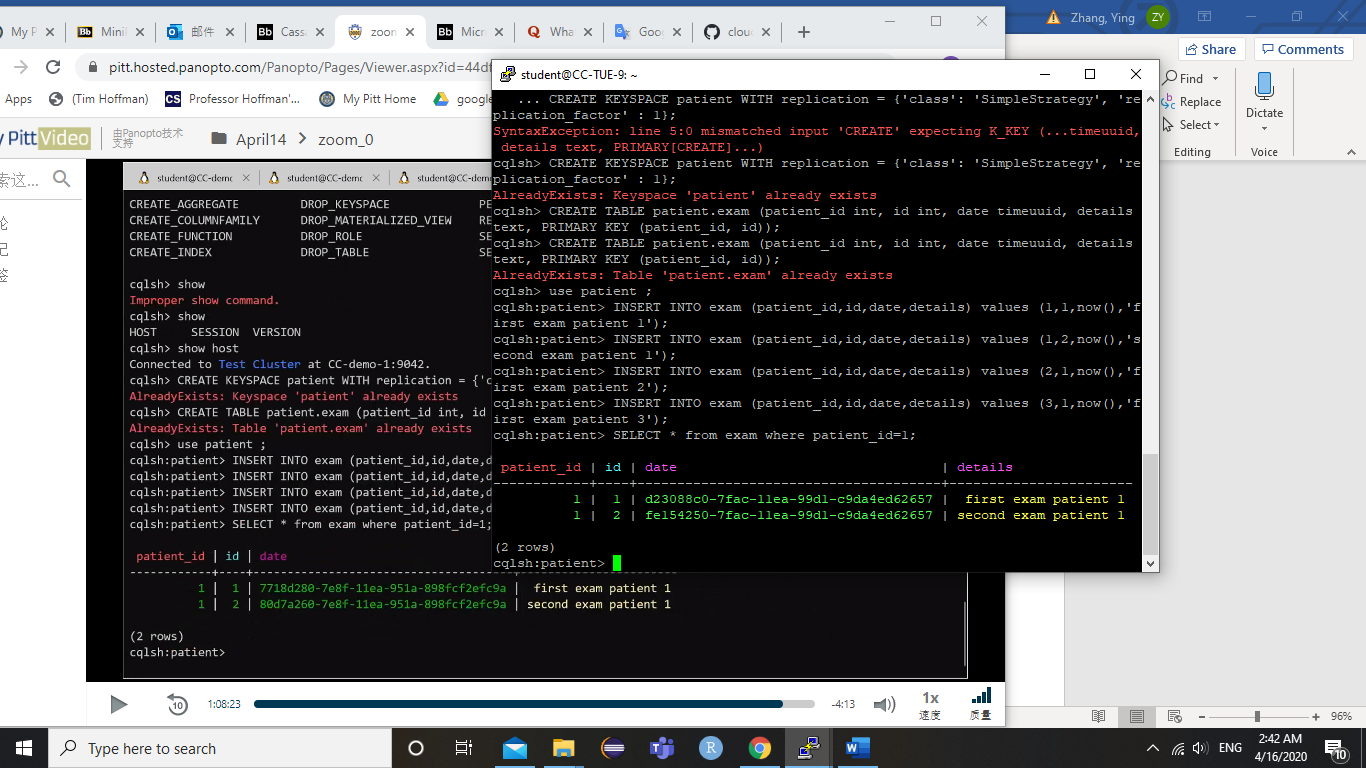
Slave Machine:



* Start CQL client:



* CQL test:

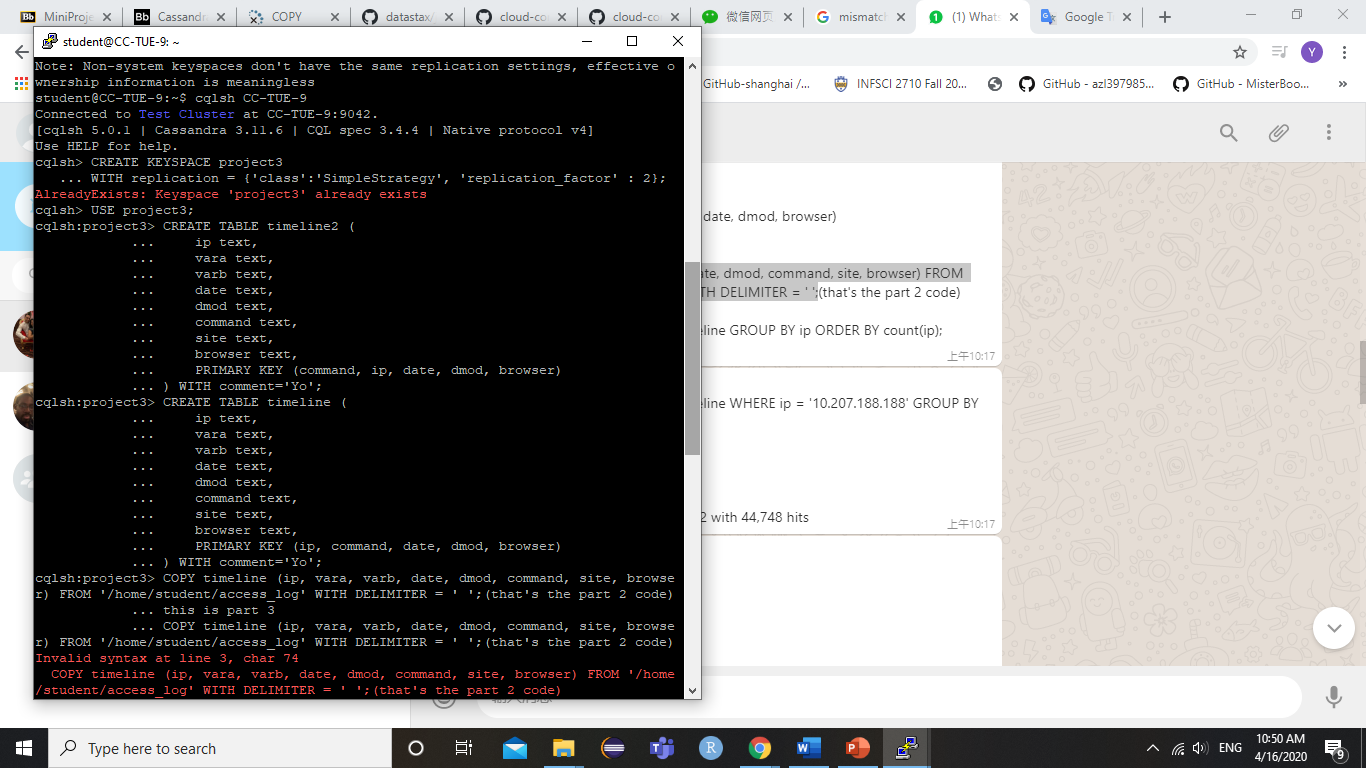


# Part 2: Import Data into Cassandra

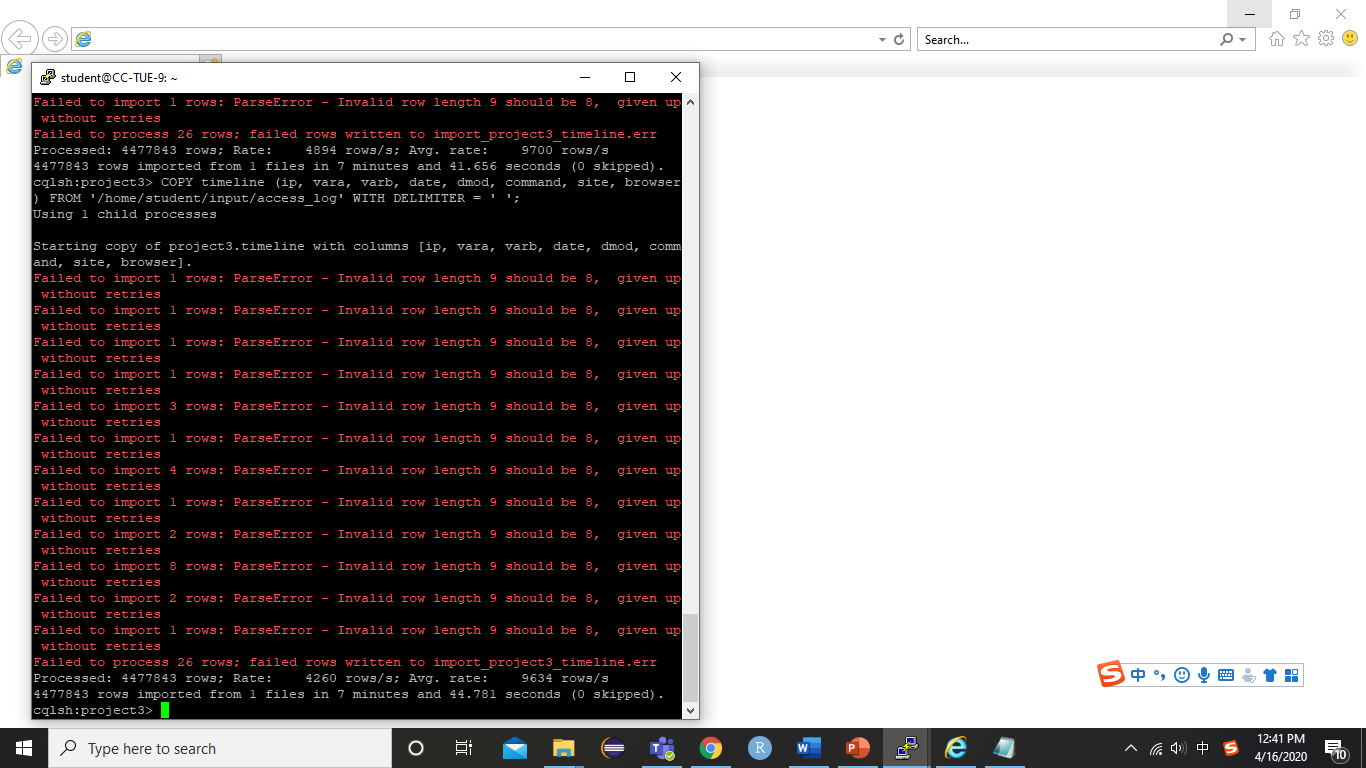
* Create a new table:

CREATE KEYSPACE project3 WITH replication = {'class':'SimpleStrategy', 'replication\_factor' : 1};

USE project3;

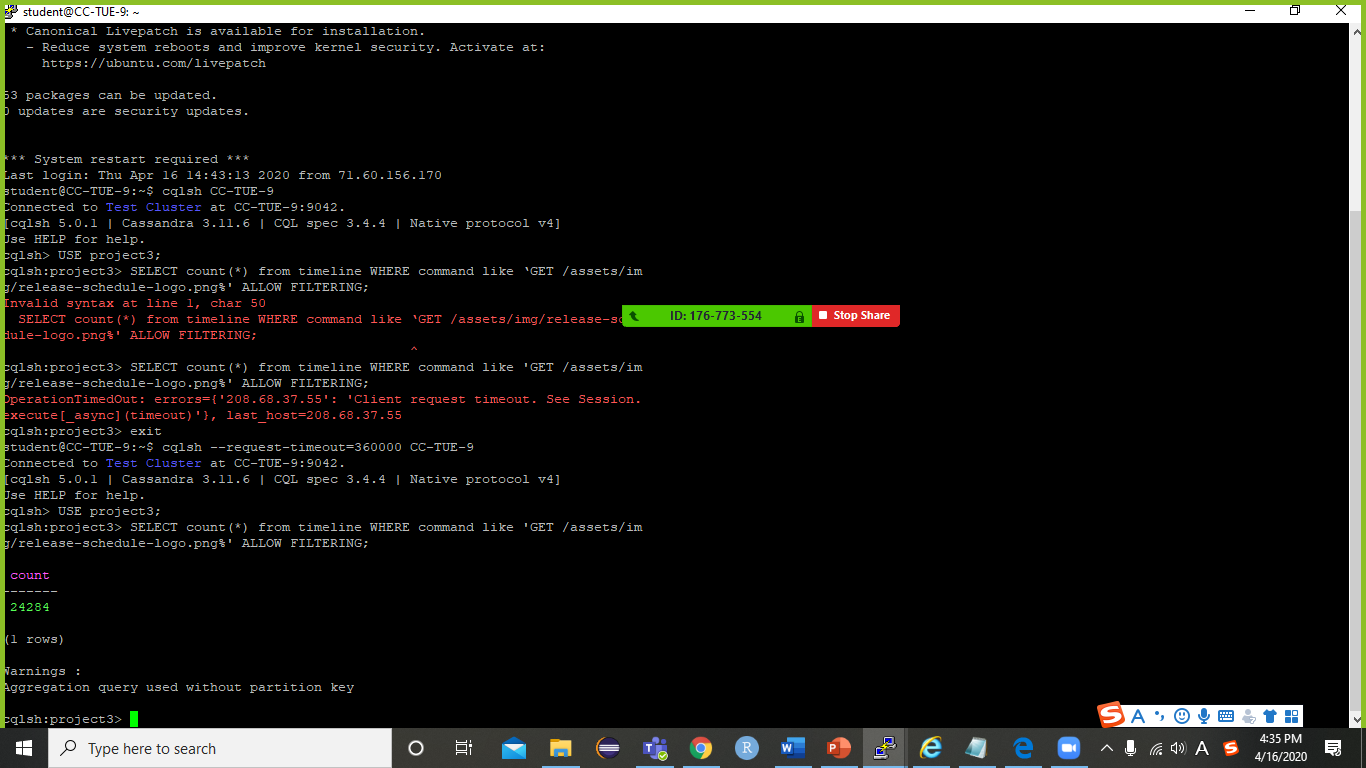


* Import data from access\_log:



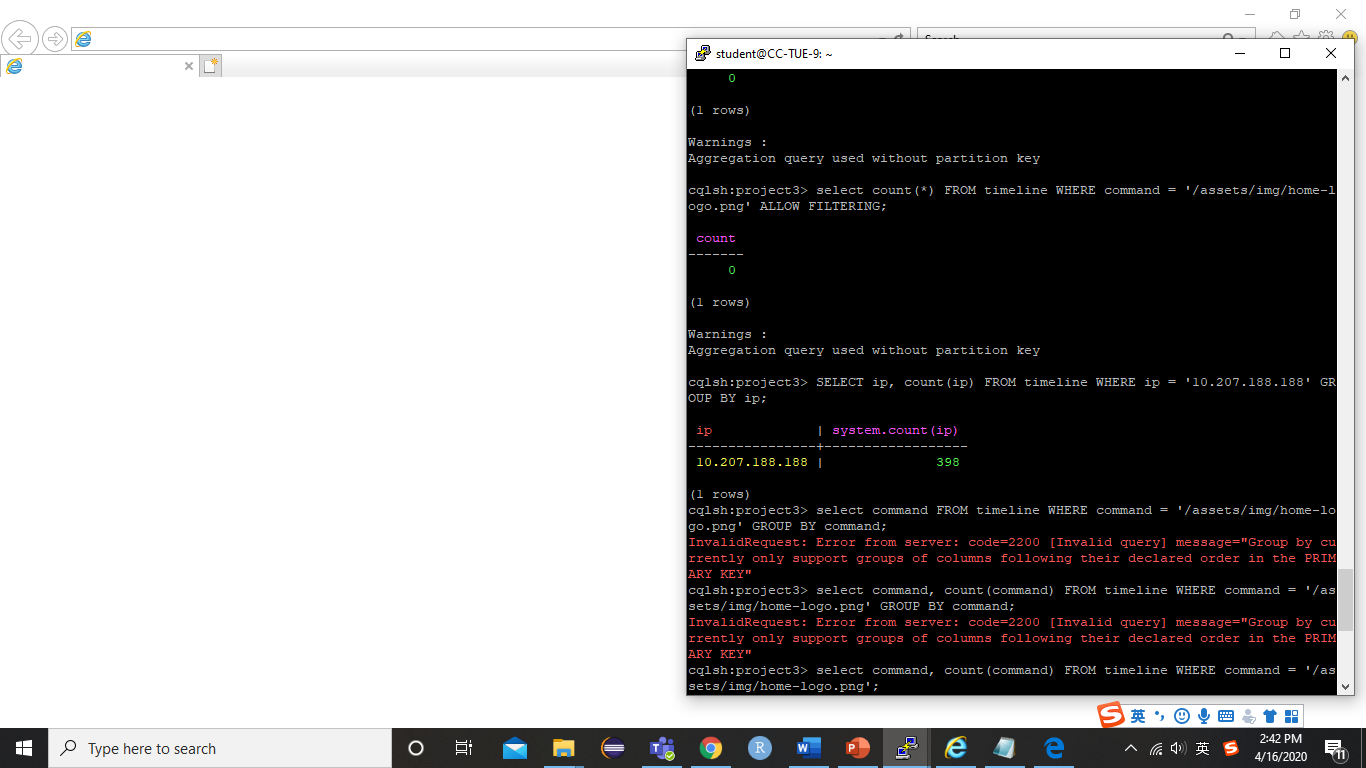
# Part 3: Operate Data in Cassandra

1. How many hits were made to the website item “/assets/img/release-schedule-logo.png”?



24284

1. How many hits were made from the IP: 10.207.188.188?



398

1. Which path in the website has been hit most? How many hits were made to the path?

/assets/css/combined.css

105006

A screenshot of a computer

Description automatically generated

4. Which IP accesses the website most? How many accesses were made by it?

10.216.113.172

158316

A screenshot of a computer

Description automatically generated