**CS5542 Big Data Apps and Analytics**

**Lesson Plan #1**

**June/4/2018 (M)**

**ICP Feedback and Submission Link :** <https://goo.gl/forms/beuByNuIPXKfZ6to1>

**Lesson Title:** *Cassandra*

**Lesson Description:** *Independent Column based No SQL Tool - Cassandra*

**Lesson Overview:**

* No SQL Systems
* Comparison of Cassandra with other systems
* Cassandra Introduction
* Strengths
* Architecture
* Advantages
* Data Types
* Commands
* Case Studies

**Installation Guidelines:**

<https://umkc.box.com/s/km23bj6kxnh2kqqbxk6tcvu59qp0hla3>

**Lecture:** <https://umkc.box.com/s/d1yao82jg7lh0iytygclos8axqmc8y70>

**Cheat Sheet:** <https://umkc.box.com/s/kcwyiciq81qr6a2ko8lc5bcvdumhtce1>

**In Class Exercise**

**Data:** <https://umkc.box.com/s/z4irb24nz38cisdoarmteelxjj7b692g>

**Cassandra (CQL Command Line)**

Write a document and include your CQL screen shots for the commands below. Use the datasets provided to you in class and create a KEYSPACE with the name “test” or use appropriate KEYSPACE according to your choice. You have the flexibility to change data according to your requirements.

1. List the empno,ename,jobtitle,and hiredate of employee from the employee table.
2. List the name,salary of the employees who are clerks.
3. List the name,job,salary of every employee joined on ‘december 17,1980’,
4. List name and annual salary of all the employees.
5. List the department name & deptno for departments having deptno.>=20
6. Display employees’ names, salary and manager values of those employees whose salary is 500 from EMP table using SELECT statement.
7. Write a query that displays enames with first letter capitalized and all other letters in lowercase and length of enames whose enames start with J, A or N.

**ICP Guidelines (In Class Students):**

1. ICP Submission is in pairs of two students.
2. Once completed, must be presented to TA or Instructor before the completion of the class
3. Submission after class is considered as late submission. (Check the late submission policy in the syllabus)
4. ICP Code with brief explanation should be pushed to GitHub. Submit Github Link through the Feedback Form (<https://goo.gl/forms/beuByNuIPXKfZ6to1>**)**

**Submission Guidelines (for online students):**

1. Submit your source code and documentation to GitHub and represent the work through wiki page properly (submit your screenshots as well. The screenshot should have both the code and the output)
2. Comment your code appropriately.
3. Submit a brief demo video 2-3 min showing your assignment with a voice over explaining your work through the Submission Link.
4. Use the following google link to submit your assignment

(ICP Submission Link#) : <https://goo.gl/forms/beuByNuIPXKfZ6to1>

***Cheating, plagiarism, disruptive behavior and other forms of unacceptable conduct are subject to strong sanctions in accordance with university policy. See detailed description of university policy at the following URL:*** [*https://catalog.umkc.edu/special-notices/academic-honesty/*](https://catalog.umkc.edu/special-notices/academic-honesty/)