**CSCI-620: Introduction to Big Data**

**Assignment 4: SQL Server Management Studio (SSMS)**

**Due** on Wednesday, March 21st, 2018 @ 11:00 pm

***The Goal: Acquiring all required skills to design, create and manage databases using SSMS 2012.***

**Requirements:**

1. Design a database on any business domain or idea of your choice.
2. The design must utilize **ALL** ER-diagrams modeling concepts.

**NOTE**: SSMS ER-diagram capability might not cover all concepts discussed in class. Therefore, you have to consider using other software, such as, Microsoft Visio, or any other similar software.

1. You must perform the four normalization forms on your design to prove its data integrity.
2. There are no limits on the size of the database. However, your database should be large enough to meet the assignment goal.
3. You can populate your database with data from any source you deem appropriate. If you could not find any appropriate data, you can create fictitious data for the purpose of this assignment only!
4. If you need assistance, you can post all your inquiries on the course forum.

**Deliverables**:

You have to submit the following:

20 points

30 points

50 points

Total:

100 points

* Database file(s).
* Professionally written report that shows all steps you performed during your assignment work. The goal of the report is to show how you created your database from scratch. Pdf or docx are only acceptable file formats.
* Presentation for a **maximum of 10 minutes** with the course grader. During the presentation, you have to show that the database is working and to answer variety of questions to prove your efforts.

**Individual work:** This is an individual work assignment. Although cooperation between students is highly encouraged and desirable, every student must submit her/his **original work!!**

\*\*\*\*\*\* GOOD LUCK \*\*\*\*\*\*