CIS4331 Spring 2019 Lab 12
Database Project Part 1: ER Modeling

Important notes about your grades and this lab:
- This lab is the first part of a 3-part database project that let you design and implement a relational database.
- Each part of the project will be counted as Projects grades (NOT Lab grades) when your total grade is computed at the end of the semester.

1. Objectives
This lab will help you to learn
- How to visualize the database system requirements using an Entity-Relationship Model
- How to understand the database system requirements that are represented in ER Diagrams.

2. Tasks to Complete
Complete the following Mini Case Studies at the end of Chapter 2 in Jukic's book: Introduction to Database and Data Warehouses.

- MC2 Funky Bizz on Page 53.
- MC3 Snooty Fashions on Page 54.
- MC4 Signum Libri on Page 54.

For the convenience of those who don't have the book, the questions are included in the file: Jukic-Ch2-MC1-MC4-Questions.pdf.

Requirements about the notations:
- Your ER Diagram MUST follow the notation used in the Jukic's book: Introduction to Database and Data Warehouses.
  - There are many examples of such ERD diagrams in the lecture slides even if you don't have a copy of the book.
- If your ER Diagram does not follow the notations in the Jukic's book, you will not get any credit for that answer.
  - Different books may use different notations. Following the notations in our textbook will not cause confusion in understanding your ER Diagram.

About the tool used to draw the ER Diagram:
- I recommend the simple and free tool ERD Plus that is available from the textbook website: www.dbtextbook.com. Click the link ERD PLUS on the top right corner of the main page and you will go to https://erdplus.com/#/. I gave a short demo in the lecture section.
  - ERD Plus draws ER Diagrams that are consistent with the notations in the textbook by Jukic, etc.
  - You can export the diagram to a .png picture file.

- o There is a video tutorial about ERD Plus on YouTube:
    https://www.youtube.com/watch?v=Ttti2HcVpc0
- You can use any other tool to draw your ER Diagram but the resulting ER Diagram MUST follow the notations in Jukic's book.

3. Submission Requirements

- This Project-Part1 is **due by 11:59pm, Tuesday, April 16, 2019**.
- Place your answers in a word document file with extension .DOC or .DOCX. Mark each answer-figure by MC2, MC3, MC4.
- Write your FULL name on the first page of the document.
- Submit your word file by attaching it to the link *Lab12DBProjP1* in folder Assignments on Canvas.
- **If** you **want to submit PNG files for your diagrams**, you **MUST do the following**:
    - o Make each file name include your FULL NAME, ASSIGNMENT NAME, and QUESTION NUMBERS like mc2, mc3, mc4 etc.
    - o An **example** of such name is: **SteveMartin_Lab12DBProjP1_MC2.png**.