Metro State University
ICS 311- 51 Database Management Systems
Summer 2023
Term Project – Step 1

Points 30
Due Date: 6/9/2023

The term project involves designing and implementing a database system for an organization. It is a project to be done in a team of two students. The term project is made up of a series of four deliverables, each building towards the finished product. Please remember that all deliverables must be submitted by midnight on the date they are due. Late deliverables will penalize according to the late work policy, unless prior arrangements have been made.

The project requires building a database application for a real-world scenario of your choosing. Some examples include: books, movies, music, computer games, geographical locations, genomic sequences, white water rafting resources, flights, etc. **Note that you cannot choose the University database that is used in the text book nor the Customer-Invoice schema that is used in assignment 3.** Try to pick an application that is relatively substantial, but not too big. For example, you might want your design to have in the range of 5 to 8 or so entities.

You will design schemas for the database, and you will create an actual database using the MySQL relational Database Management System. You will populate the database with sample data, write interactive queries and modifications on the database, and develop user-friendly tools for manipulating the database.

Step 1: What to submit?

You are required to submit a one-page project description of your application. This is an initial, but reasonably well-thought out, one-page description of the database application you propose to work with throughout the course. **Note that you cannot choose the University database that is used in the text book nor the Customer-Invoice schema that will be used in assignment 3.** You may state any assumptions you would like to make. Make sure your submission includes the following:

1- One paragraph description of your application. (5 points)

2- An initial list of tables (at least 5 tables) that will be used in order to represent your application. In good table layout format so that it is readable. Not a table name followed by a list of attributes. (10 points)

3- For each table, propose an initial set of attributes (or fields). (10 points)

4- The explanation of at least 5 scenarios for queries that need to be answered using your database. (5 points)