**Assignment 1-Data Design (5% of total grade)**

**Format:** Upload a Word document (or pdf) to Blackboard (under ASSESSMENTS & TOOLS > Assignments).

BE SURE TO PUT YOUR NAME IN THE FILENAME:

e.g. DB-Assign1- *YourName*.docx

**Purpose:** To apply a data design mindset to various contextual challenges.

**Requirements:** For this assignment, answer the questions below in English, no coding is required.

**Part 1: Who? What? Where? When? Why? How? (1.5%)**

Considering a database for a restaurant, write two questions for each of the following groups that might be answered by the data stored in a database. The questions must be unique to their user group.

Restaurant Manager

* What was the manager hiring order/start dates?
* What shift does each manager work (mornings, afternoons, nights)?

Food Server (formerly known as ‘waiter’/’waitress’)

* Whats the average amount of tables taken per server?
* Whats the average amount of tips each server gets?

Customer

* What type of food did the customers order?
* What time of day did the customer visit the restaraunt?

**Part 2: Set the Tables (1.5%)**

Considering a database for a public library, identify three tables that would be part of its database.

* Is the book non-fiction or fiction?
* Which author wrote the book?
* Book title

**Part 3: Log the Blog (1.5%)**

Considering a database for a video games blog with multiple blog authors, identify fields (columns) that would belong to the *authors* and *posts* tables (4 each).

Authors Table

* authors id
* author name
* date joined
* author bio

Posts Table

* authors id
* video game title
* video game platform (i.e PC, Playstation, Xbox, etc...)
* video game genre

**BONUS: Putting it together (0.5%)**

Which field from the Authors table would match up with a field in the Posts table?

Answer: authors id