# **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

1. What is the manager ID?
2. Who does the manager report to?

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

1. What is the waiter ID?
2. Number customers did he/she serve in a day?

### Customer

1. What is the customer ID?
2. What is the total amount spent by the customer?

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

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

1. Genre
2. Library Staffs
3. Best Sellers

## **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

1. AuthorID
2. First Name
3. Last Name
4. Email ID

Posts Table

1. PostID
2. AuthorID
3. Likes
4. Comments

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

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

Answer: AuthorID - AuthorID will be the primary key in the author table which will help to uniquely identify the authors in the posts table.