

# Lab 1: Data Design (4 Parts: 5% of total grade)

*Download or make a copy of this lab and fill the answers in the copy.*

**Submission:** When complete, export the document as a PDF. Name the file

***L1-LastNameFirstName.pdf***

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

**Requirements:** For this lab, 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 your name?
2. When is your schedule?

### ***Server (AKA waiter/waitress)***

1. What is your name?
2. When did you get hired?

### ***Customer***

1. How often do you come to the restaurant?
2. What is your favorite on the menu?

## **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. Librarians
2. Users
3. Books

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

Consider 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. id
2. author name
3. author id
4. date of birth

***Posts Table***

1. id
2. author name
3. date of post
4. game genre

**Part 4: Putting it together (0.5%)**

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

Answer: author name