

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