

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's id (primary key)?
2. When did the manager start working at this restaurant?

Food Server (formerly known as 'waiter'/'waitress')

1. How many hours has the waiter worked this week?
2. How much is the hourly wage that is paid to the waiter?

Customer

1. What is the consumer's full name?
2. How much did the consumer pay?

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. Users
2. Books
3. Loans

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. Author's mail

Posts Table

1. PostId
2. Title
3. Content
4. Date

BONUS: Putting it together (0.5%)

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

Answer: **AuthorId**