Assignment Chapter 2

A screenshot of a social media post

Description automatically generated

**Exercise 4.1:**

For the relationship from right to left, if we define authors as a person that has written a book then the optionality of 1 since it would be reasonable to say that a book needs an author to write it.

For the relationship from left to right, if we define books as things that is a written works from an author than the optionality would be 1 since you need an author to write a book.

**Exercise 4.2:**

The piece of data that is missing is the recipes for the drinks. It would solve both of the issues stated in the question by having a list ingredient for a specific cocktail or the uses for a specific ingredient. It also wouldn’t make sense to include it in either class since it requires knowledge of the ingredients and knowledge of the result(cocktail).

**Exercise 4.3:**

The model could be changed to include a new class including any rooms that a guest stayed at. Since a guest may stay in multiple rooms, a new class would be able to store all of the rooms that a guest stayed at.