

TESTING YOUR UNDERSTANDING

Exercise 4-1.

Figure 4-23 shows a first draft of modeling the situation where a publishing company wants to keep information about authors and books. Consider the possible optionalities at each end of the relationship *writes* and so determine some possible definitions for a book and an author.

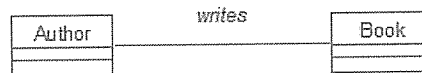


Figure 4-23. Consider possible optionalities for authors writing books.

Exercise 4-2.

Figure 4-24 shows a possible data model for cocktail recipes. The Many–Many relationship *uses* can be navigated in either direction. To find out the ingredients in a Manhattan or to discover the possible uses for that bottle of Vermouth. What is missing?

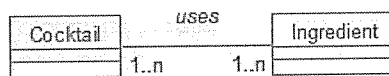


Figure 4-24. Cocktails and their ingredients. What is missing?

Exercise 4-3.

Part of the data model about guests at a hostel is shown in Figure 4-25. How could the model be amended to keep historical information about room occupancy?

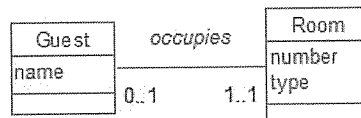


Figure 4-25. How could this be amended to keep historical information about room occupancy?