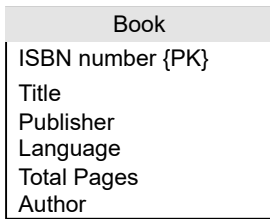


Homework 1

1.



Note :

1. Making ISBN as primary key since it is unique for each book.

2.

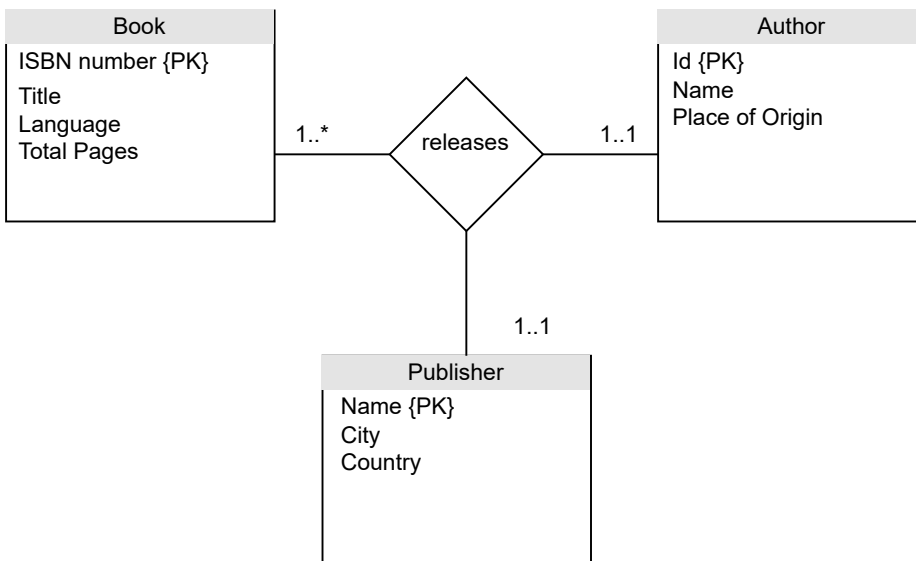


Note:

1. Making ISBN as primary key since it is unique for each book.

2. Also, the author's name and origin can't be unique, so under my assumption, I have added AuthorId as the primary key for that entity.

3.



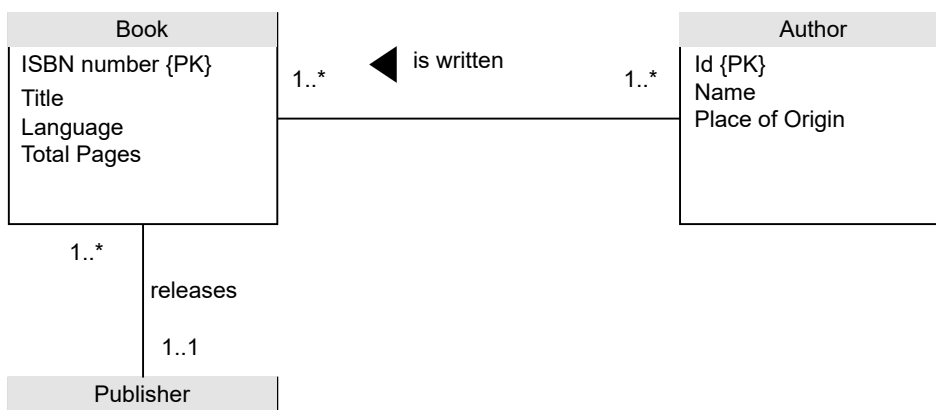
Note:

1. Make ISBN as primary key since it is unique for each book.

2. Also, the author's name and origin can't be unique, so under my assumption, I have added AuthorId as the primary key for that entity.

3. Making the name the primary key for the publisher entity since it should be unique for each publisher.

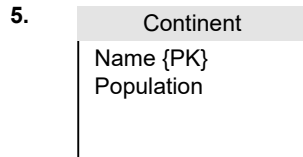
4.





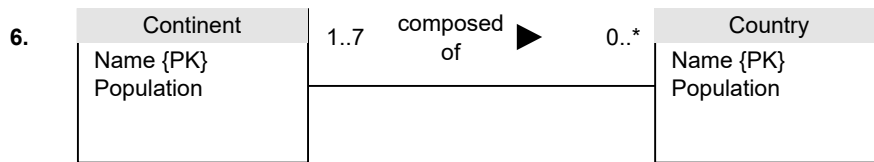
Note:

1. Make ISBN as primary key since it is unique for each book.
2. Also, the author's name and origin can't be unique, so under my assumption, I have added AuthorId as the primary key for that entity.
3. Making the name the primary key for the publisher entity since it should be unique. The cardinality relation between author to book is defined under the assumption that an author can write one or more books in their lifetime.



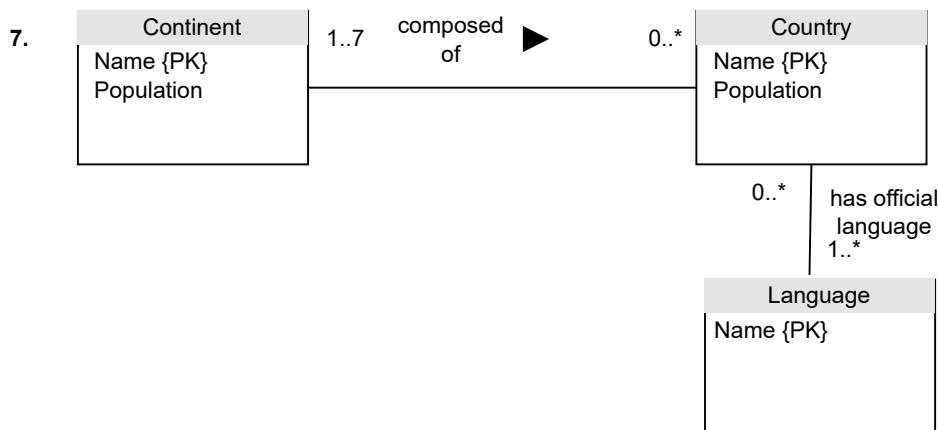
Note:

1. Since name of each continent is unique, making it as PK.



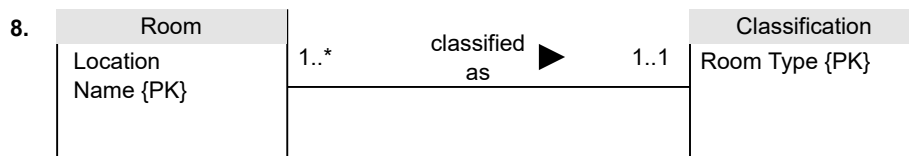
Note:

1. Since name of each continent is unique, making it as PK.
2. Similarly, country's name is unique as well, making it as PK.



Note:

1. Since the name of each continent is unique, making it PK.
2. Similarly, the country's name is unique as well, making it PK.
3. For the language entity, I created the name attribute as the PK since the languages are unique to each country.



Note:

1. In the question, it was listed name is unique within the house, so, making the name PK for the room entity.
2. For classification entity, room type is unique, thus, making it PK.

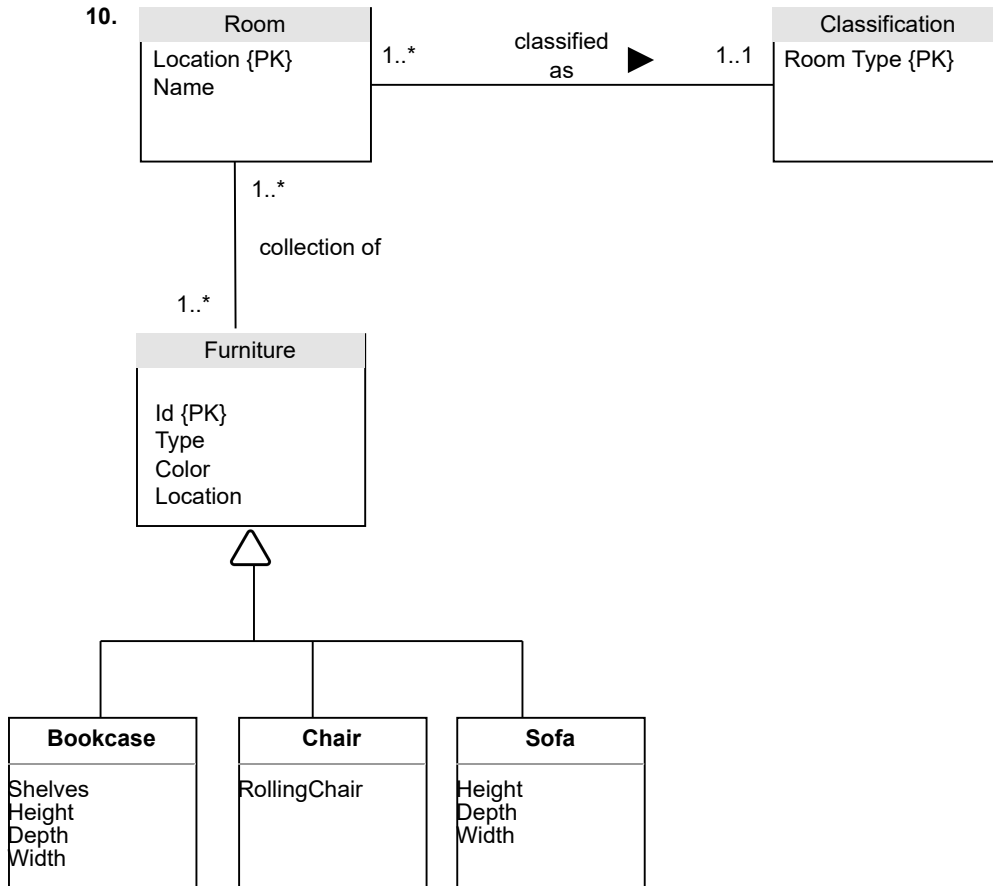
9.



Note:

1. In the question, it was listed location is unique within the house, so, making the location PK for the room entity.
2. For classification entity, room type is unique, thus, making it PK.

10.



Note:

1. In the question, it was listed location is unique within the house, so, making the location as PK for the room entity.
2. For classification entity, room type is unique, thus, making it PK.
3. For the furniture entity, added Id as the PK since we don't have any other attributes to make it unique.
4. Specialization/generalization of the furniture entity into subclasses representing each furniture type information.