1. Create an ER diagram of the library system explained below

The library contains one or several copies of the same book. Every copy of a book has a copy number and is located at a specific location in a shelf. A copy is identified by the copy number and the ISBN number of the book. Every book has a unique ISBN, a publication year, a title, authors, and a number of pages. Books are published by publishers. A publisher has a name as well as a location. Author has first name, family name and birth date. Within the library system, books are assigned to one or several categories. A category can be a subcategory of exactly one other category. A category has a name and no further properties. Each reader needs to provide his/her family name, his/her first name, his/her city, and his/her date of birth to register at the library. Each reader gets a unique reader number. Readers borrow copies of books. Upon borrowing the return date is stored.

2. Mysql exercises

2.1 How many students does the Fullstack and Marketing academy together have?

2.2 Get all students from the Frontend academy, sorted by last name from lower to higher

2.3 How many female students are there in the Data Science academy?

2.4 How many Php mentor classes has the instructor Brendan had?

2.5 Get the lectures that the instructor Penelope had with difficulty between 1 and 5 in 2019 OR with difficulty between 5 and 10 in 2020?

2.6 How many mentor sessions has the student with firstname Caril visited?

2.7 List lesson_id and academy name from lessons where the number of present student was between 6 and 10

2.8 List student/s with highest number of participation on lectures.

2.9 List academy names who have CSS lessons

2.10   How many students haven't learned Bootstrap yet.

2.11   List all students who haven't participated on any lecture from Fullstack academy.