HOMEWORK -2-

Homework MUST be handed in via Canvas ONLY and in the correct assignment folder, in one file representing the entire homework. Your name, group number must be included in the document.

NOTE: taking into consideration   this exercise builds upon your design solutions in homework 1

Examine the library management system Case Study file available on Canvas and based on your schemas solutions in homework 1, answer the following:

1. Modify your database design to include the following information for administrator:

C/O-adress

Bostadsadress

Postnr   (fylls i utan mellanslag)

Postadress

Privat telefonnr 1

2. Make at least one modification to your database design so that it may include any other information you deem appropriate. (Note that this question is more free-form than the questions above, and you need to make some decisions about multiplicities of relationships, appropriate types, and even what information needs to be represented.)

3. Select and specify keys, and indicate appropriate referential integrity constraints after modifications have been made.

4. Decompose the relations, as necessary, into collections of relations that are in BCNF.

    4.1. Give informal arguments why we would not expect any of the attributes in your solution to be functionally determined by other attributes.

5. Based on your decomposed relations Indicate the following:

    5.1. The database schema.

    5.2. Generate sample data sets based on your database schema.

    5.3. Draw the E/R diagram for this database. Be sure to include arrows where appropriate, to indicate the multiplicity of a relationship.