HOMEWORK -2-

Note if you do not attend the scheduled session, your homework must include the extra queries to gain a grade.

Homework MUST be handed in via Canvas ONLY and in the correct assignment folder, in one file representing the entire homework.

https://kth.instructure.com/courses/4608/assignments/19914

Your name, group number must be included in the document.

Homework exercise:

Study the Northshore Hospital case study file available on Canvas

  (a) Identify primary keys and foreign keys for the entire case study.
  (b) For the Wards section only, identify all entity types, attributes, relationship types and their degrees in the following case.
  (c) For the Wards section only, identify the main relationship types and specify the multiplicity for each relationship. State any assumptions you make about the data.
  (d) Produce some sample tables for these relations that observe the relational integrity rules. Suggest some general constraints that would be appropriate for this schema.

Extra queries:

  (a) Explain the concept of database schema and discuss the three types of schema in a database.
  (b) Discuss the differences between the candidate keys and the primary key of a relation. Explain what is meant by a foreign key. How do foreign keys of relations relate to candidate keys? Give examples to illustrate your answer.