HOMEWORK -3-

Note if you miss the session, your homework must include the extra queries to gain a grade. Homework MUST be handed in via Canvas ONLY in one file representing the entire homework.

Homework exercise:

Study the Northshore Hospital case study file available on Canvas, based on the information regarding **Patient appointments**

(a)Identify all entity types, attributes and primary keys
(b) Identify relationship types and their degrees, state any assumptions you make about the data.
(c) Determine the multiplicity constraints for each relationship described.
(d) Create ER-diagram using the information created in previous steps State any assumptions necessary to support your design.
(e)Translate the ER-diagram using the information created in previous steps into a corresponding Relational Schema.

Extra queries:

(a) Describe the relationship between mathematical relations and relations in the relational data model.

(b) Describe how a database designer typically identifies the set of functional dependencies associated with a relation.

(c) Describe factors that would influence the choice of conducting a ER modeling when designing a database.