Laboratory work 4

Task-1

- a) What are the main phases in the database design? What is done on each development phase?
- 3 phases. Initial phase characterize fully the data needs of the prospective database users.

Second phase -- choosing a data model

* Applying the concepts of the chosen data model

Translating these requirements into a conceptual schema of the database. Describe the kinds of operations (or transactions) that will be performed on the data.

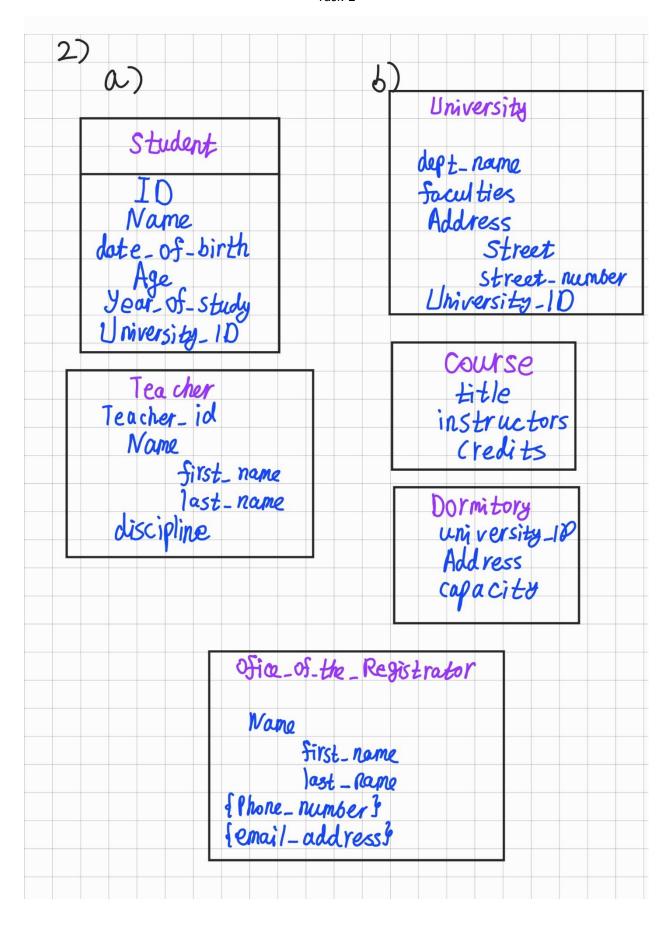
3rd - implementation of the database:

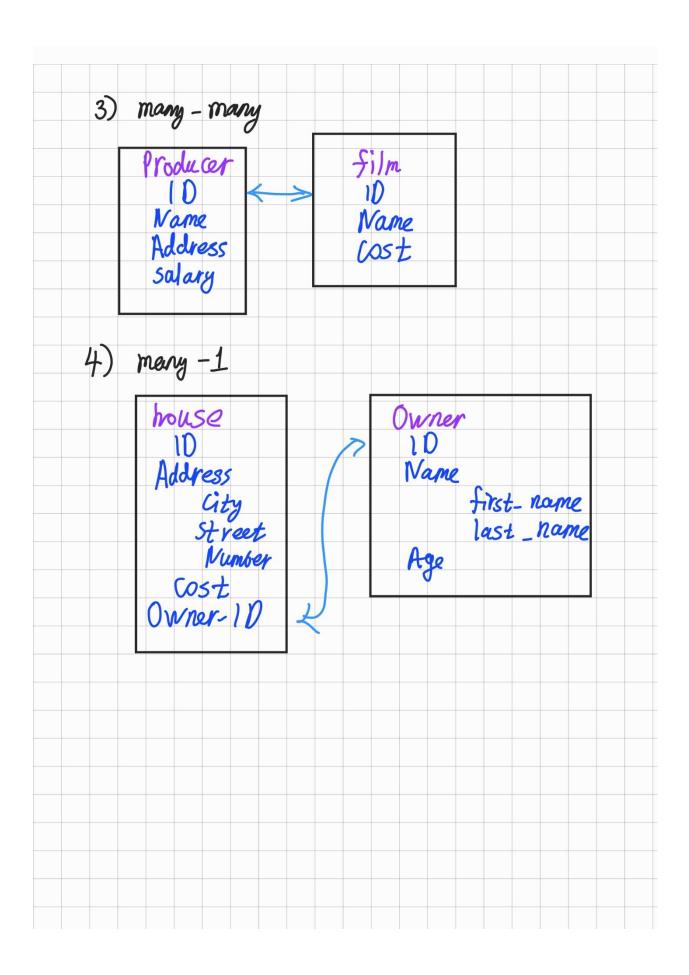
Logical Design – Deciding on the database schema:

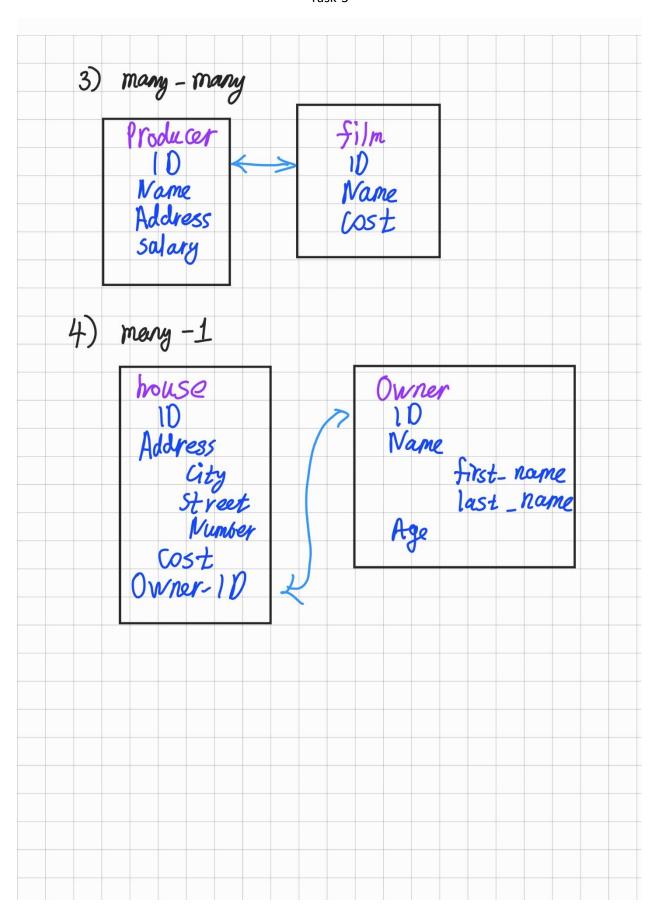
- * Database design requires that we find a "good" collection of relation schemas.
- * Business decision What attributes should we record in the database?
- * Computer Science decision –What relation schemas should we have and how should the attributes be distributed among the various relation schemas? Physical Design Deciding on the physical layout of the database
- b) What is the entity-relationship (ER) data model?

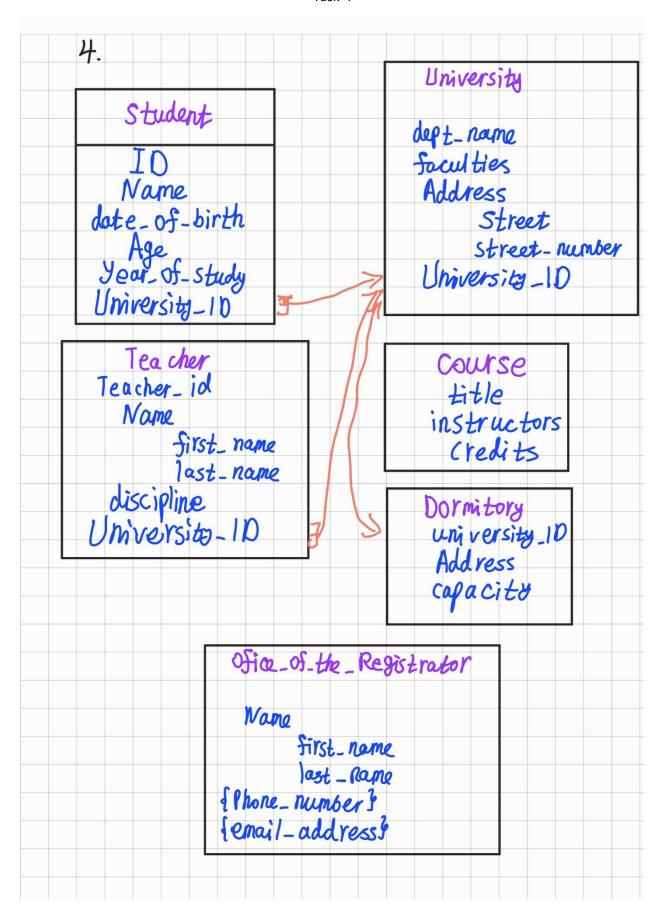
Entity Relationship Model (covered in this chapter)

- * Models an enterprise as a collection of entities and relationships
- * Entity: a "thing" or "object" in the enterprise that is distinguishable from other objects
- * Described by a set of attributes









Task-5

