1. a) Initial phase: characterize fully the data needs of the prospective database users

Second phase - choosing data model:

- 1. Applying the concepts of the chosen data model.
- 2. Translating these requirements into a conceptual schema of the database.
- 3.A fully developed conceptual schema indicates the functional requirements of the enterprise.

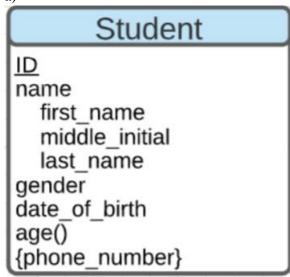
Final Phase: Moving from an abstract data model to the implementation of the database

b) Entity: a "thing" or "object" in the enterprise that is distinguishable from other objects (person, company event).

Entity is a set of attributes: instructor = (ID, name, salary).

Relationship: an association among several entities.

2. a)



University

name
rector
num_of_students
{email}

Course

id_of_curse

Name Credits

Dormitory

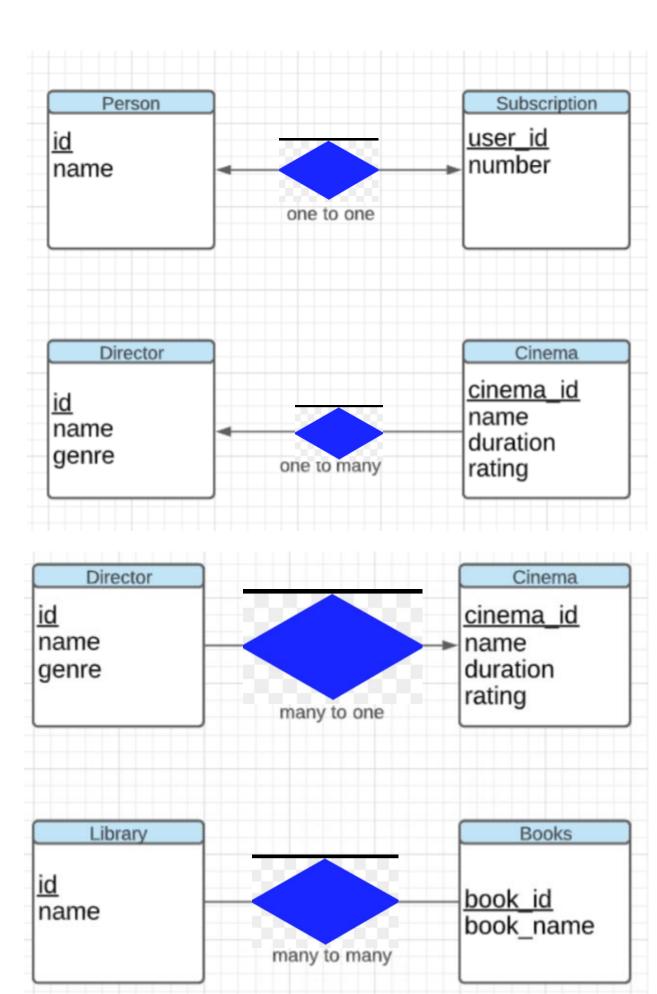
id_of_student room_num corp payment_status {phone_num}

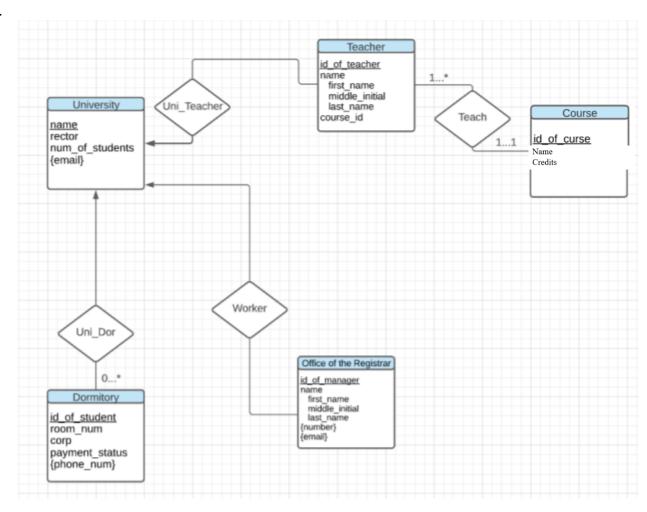
Techer

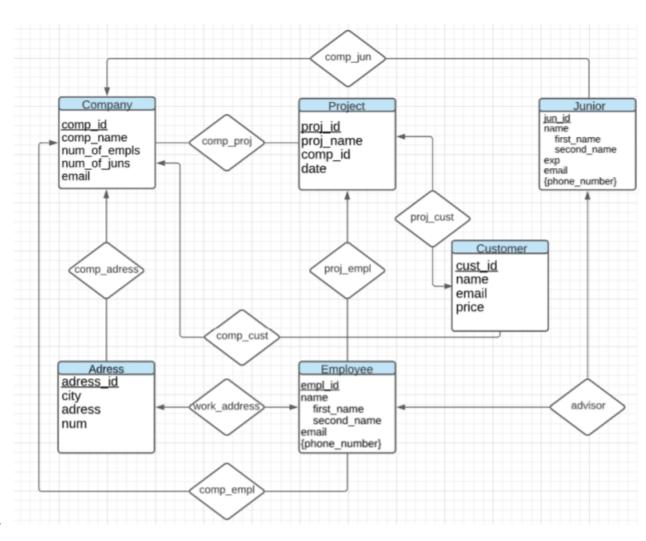
id_of_teacher
name
first_name
middle_initial
last_name
course_id

Office of the Registrar

id_of_manager
name
first_name
middle_initial
last_name
{number}
{email}







5.