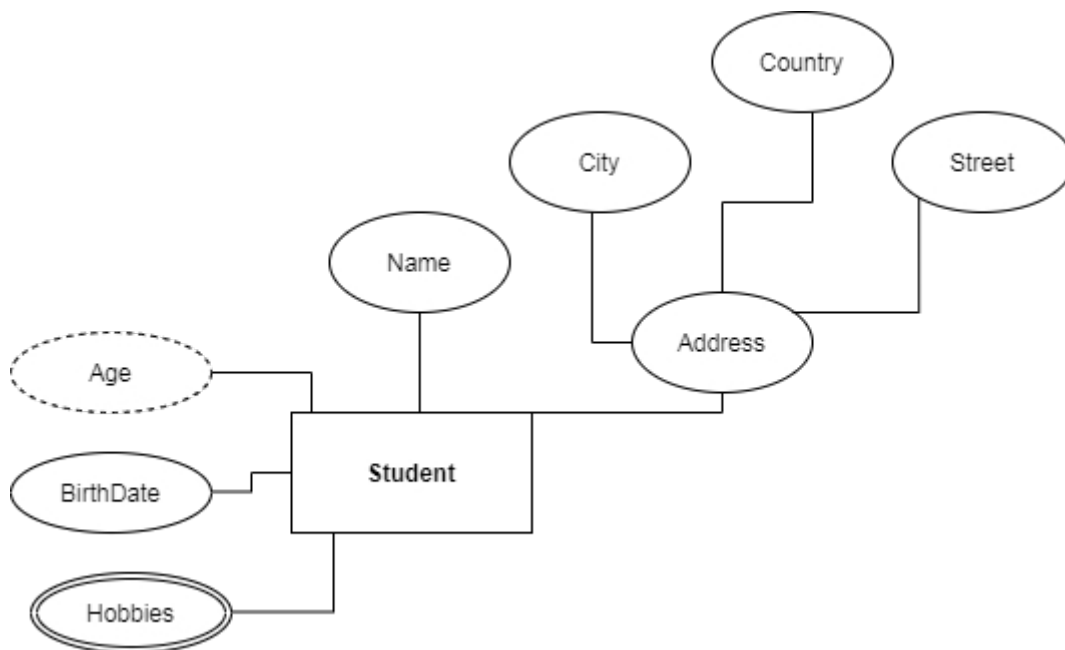# Laboratory work № 4

#1

    a) All the main phases:

- The data needs of the database users phase
  We need to find out what their users need a database for.
- Choosing a data model phase
  Applying the concepts, we create tables, relationships between tables.
- The implementation of the database phase
  We have to decide which DBMS we need. The possibility to get money. Enterprise implementation
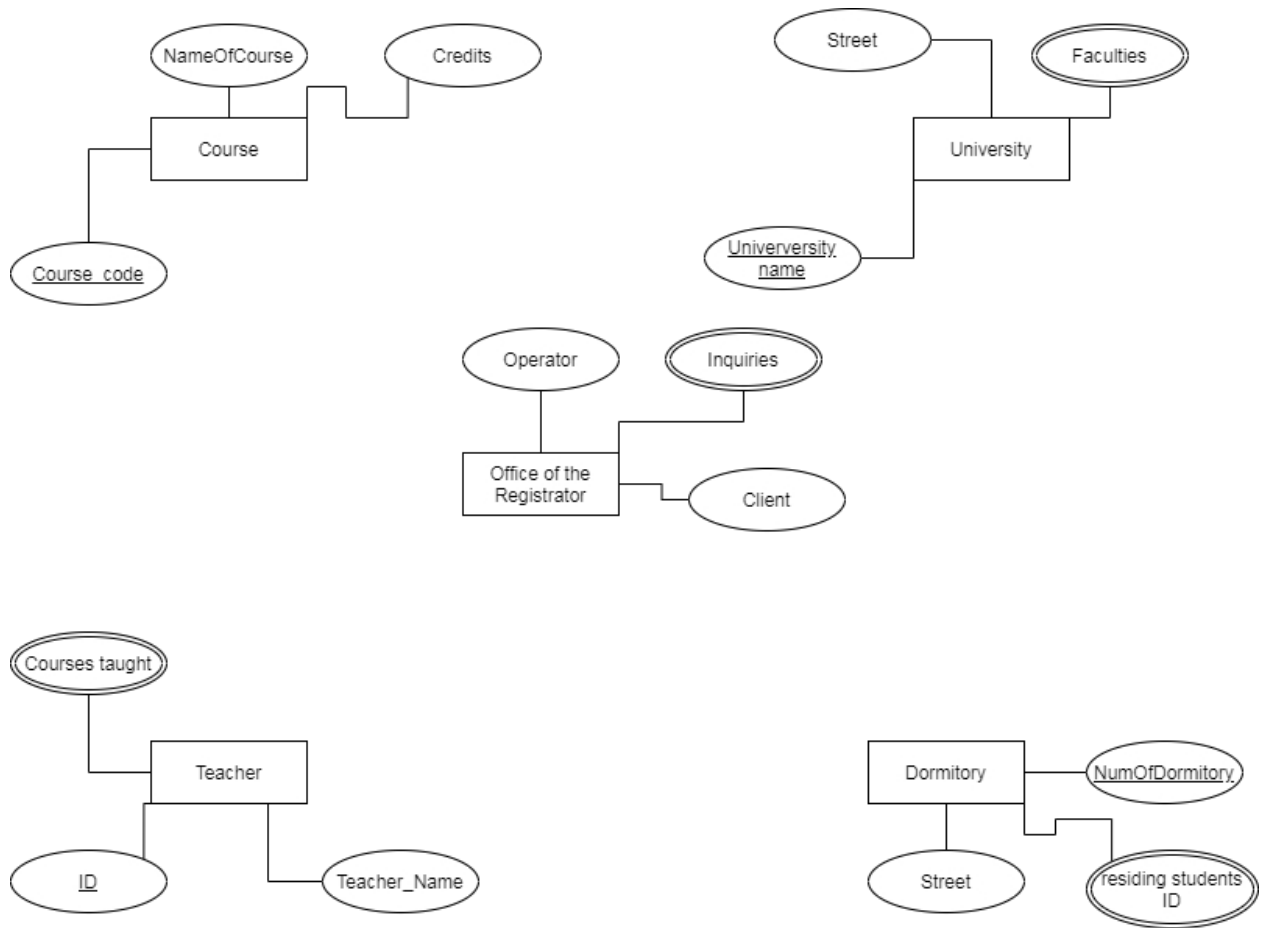
    b) ER model can highlight key entities and indicate the relationships that can be established between these entities.
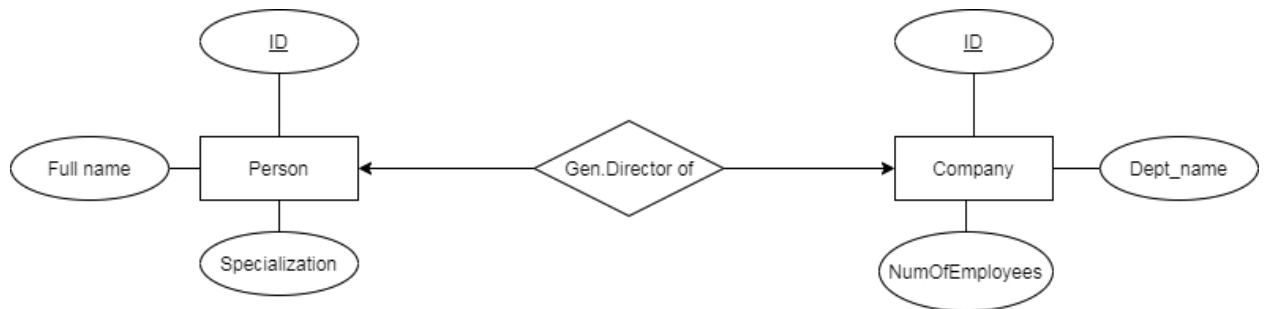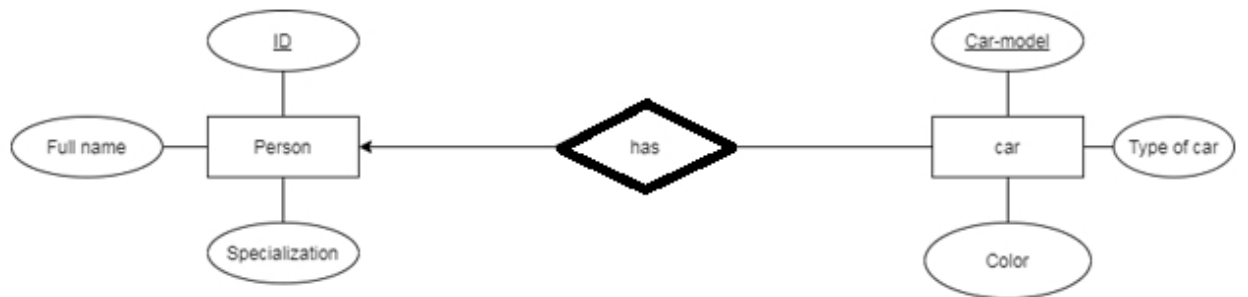
#2

a)

b)

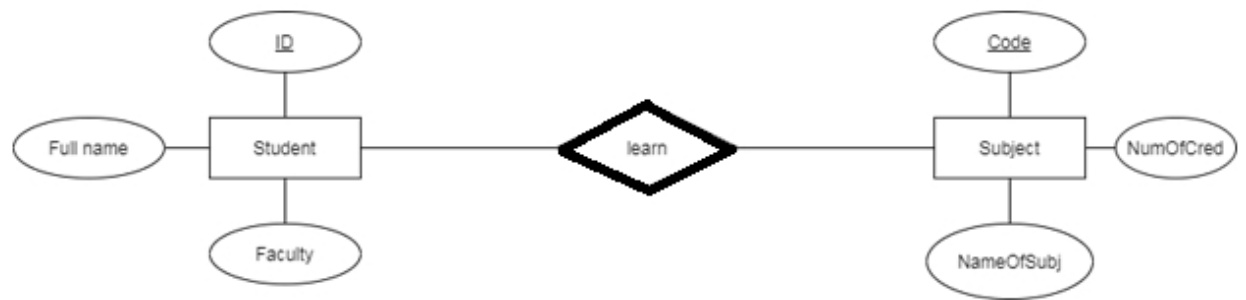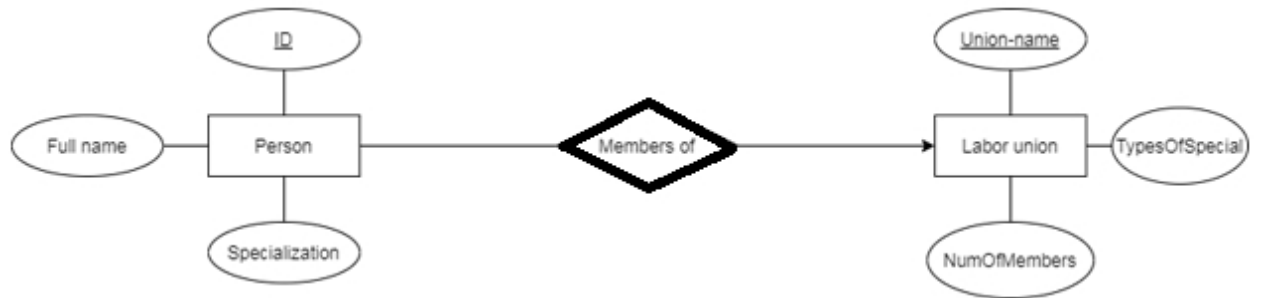NameOfCourse   Credits

Course

Course_code

Street   Faculties

University

Univerversity name

Operator   Inquiries

Office of the Registrator   Client

Courses taught

Teacher

ID   Teacher_Name

Dormitory   NumOfDormitory

Street   residing students ID

#3

One-to-one:

ID

Full name   Person   Gen.Director of   Company   Dept_name

Specialization   NumOfEmployees   ID

One-to-many:

ID   Car-model

Full name   Person   has   car   Type of car

Specialization   Color

Many-to-many:

Many-to-one:

#4