

I. Phase -1

This phase focuses on collecting requirements from users. This is only possible when the user has a clear view of his needs. If the user is not clear about his needs, entire process can go off track. I. Data model requirements like ER model or UML model.

II functional requirements

This involves day-to-day tasks and operations undertaken by enterprise.

Phase -2

Conversion phase

We need to convert the data model into a representational level model such as RDM and choose a RDBMS system to create database.

Phase -3

functional Requirements to application programs conversion

High-level languages like C++, Python are used with SQL to commn. with the databases and modify them, to capture all records of activities.

- b. It's an enterprise schema that represents the overall structure of a database which involves three basic concepts entity, relationships and attributes

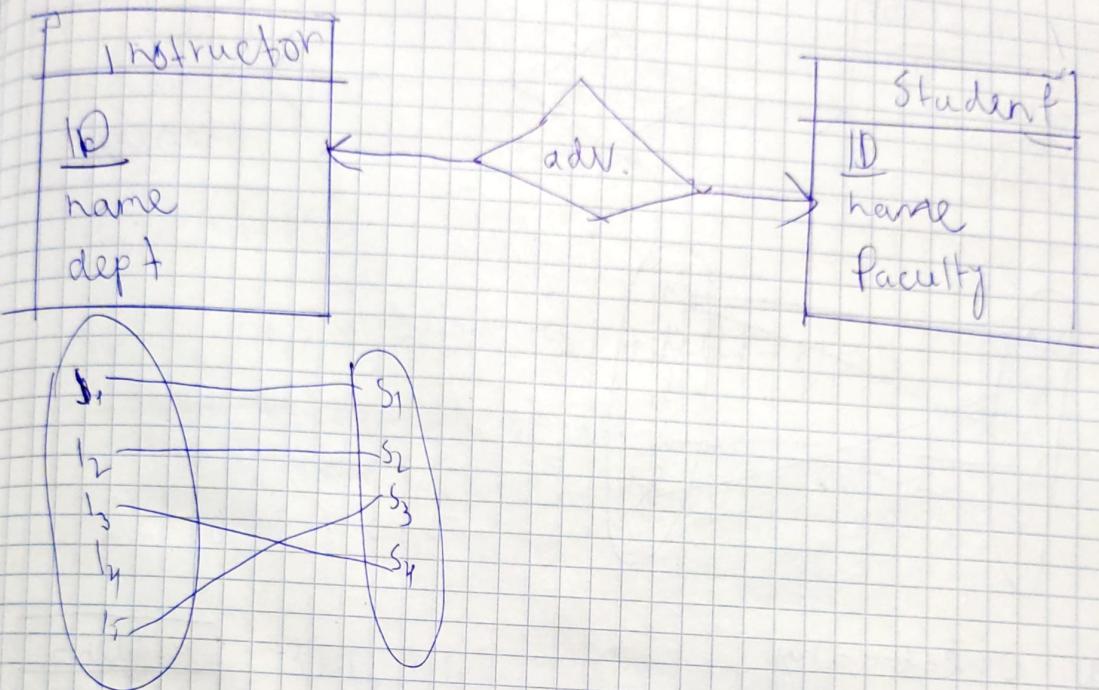
2.

a)	<u>Student</u>
	<u>ID</u>
	<u>name</u>
	<u>first_name</u>
	<u>last_name</u>
	<u>course</u>
	<u>enrolled year</u>
	<u>current year of study</u>
	()
	<u>date_of_birth</u>
	{ <u>home_number</u> }

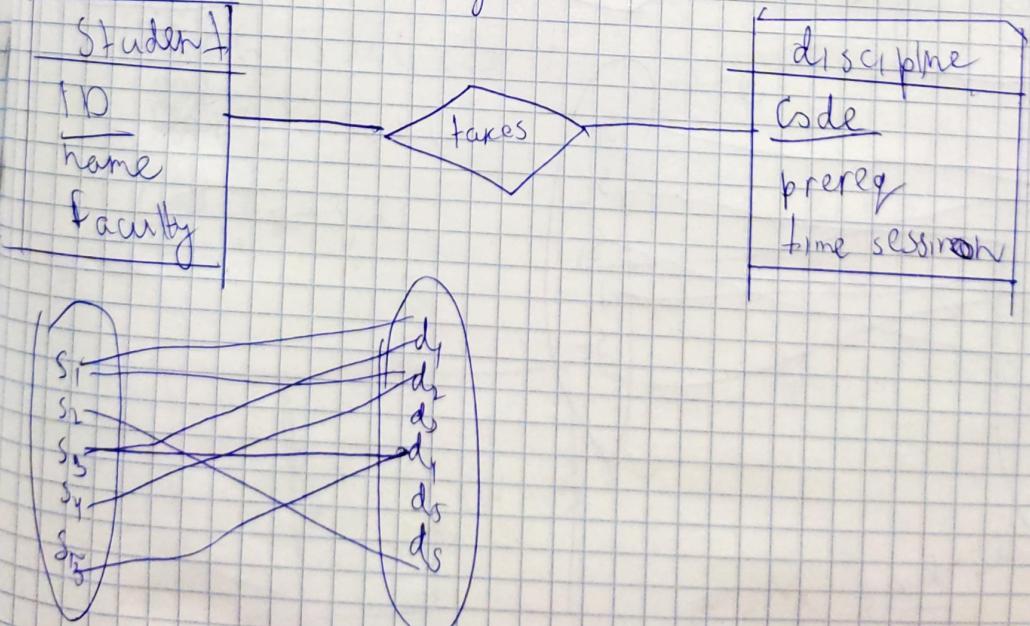
b)	<u>University</u>	<u>course</u>
	<u>name</u>	<u>course_id</u>
	<u>rectors_name</u>	<u>dept_name</u>
	{ <u>departments</u> }	<u>title</u>
	{ <u>faculties_offered</u> }	<u>credits</u>

<u>Dormitory</u>	<u>teacher</u>	<u>Office_of_The</u>
<u>university_name</u>	<u>Inst_id</u>	<u>univ_name</u>
<u>location</u>	<u>name</u>	<u>room_number</u>
<u>city</u>	{ <u>lang_spoken</u> }	<u>staff_members</u>
<u>address</u>	<u>salary</u>	<u>head_director</u>
<u>number_of_subd.</u>		

3 One-to-One

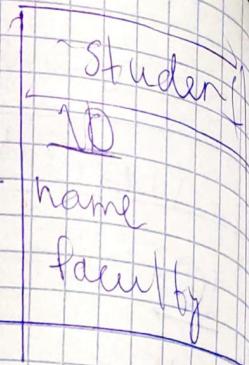
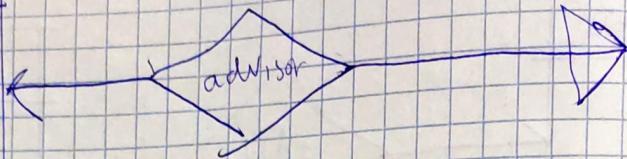
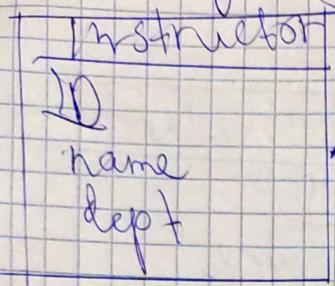


b many-to-many

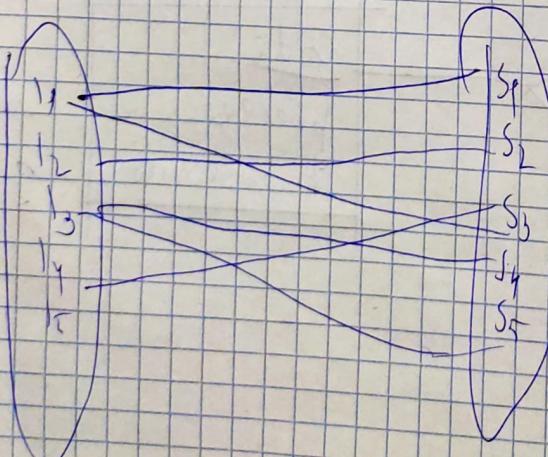
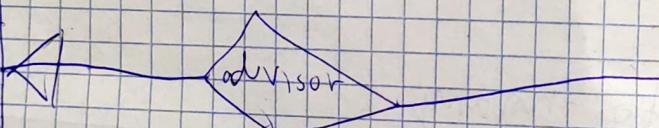
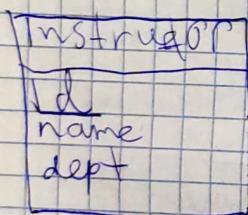


e-of-the-reg
-name
-number
members
-director

C. many-to-one



D. one-to-many

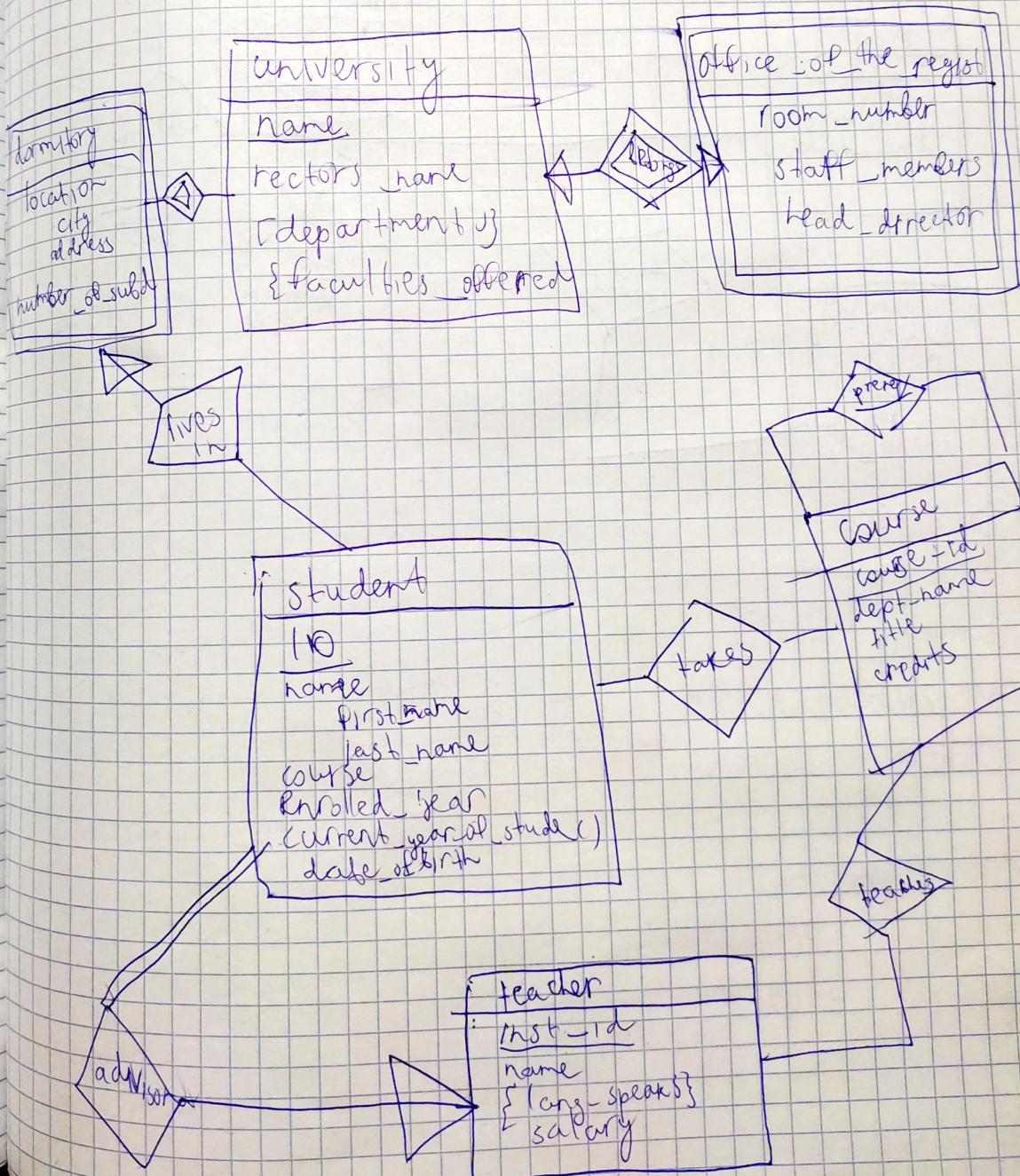


ER data model

4.

student

~~thn~~



5.

