

1. Main phases in the database desing - initial, second and final.

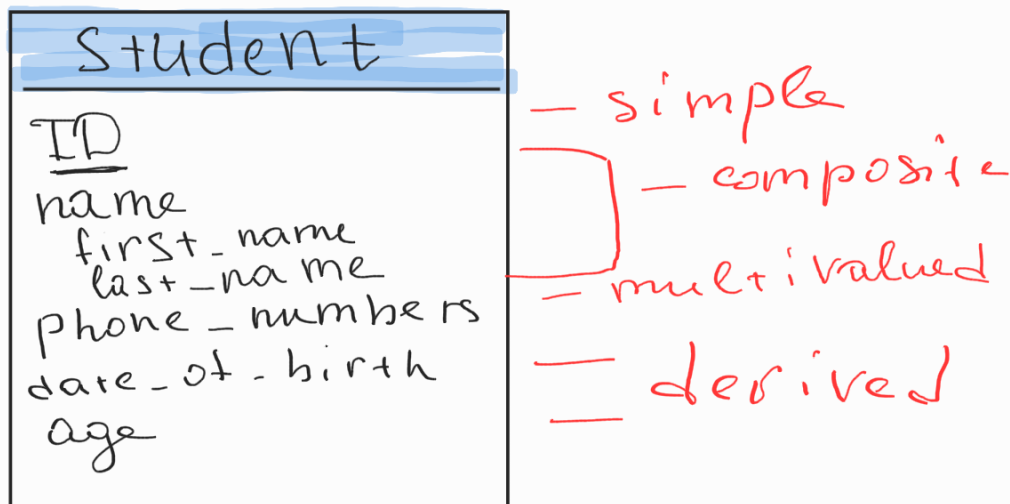
Initial - characterize fully the data needs of the prospective database users

Second - choosing a data model

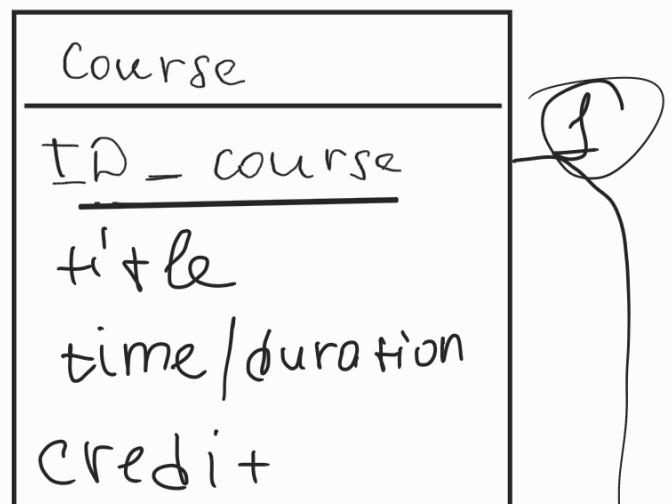
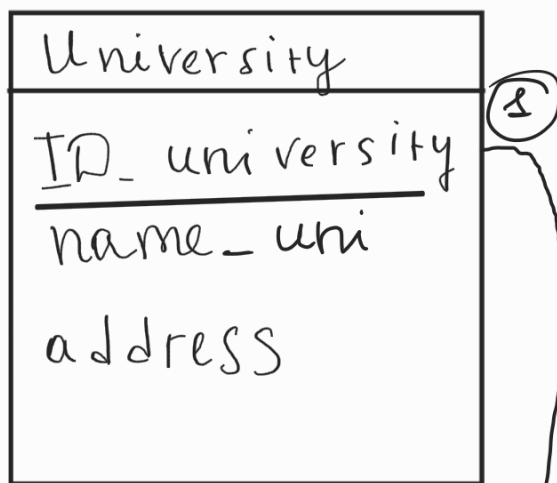
Final - coding, realization, moving from absct data model to the implementation of the database

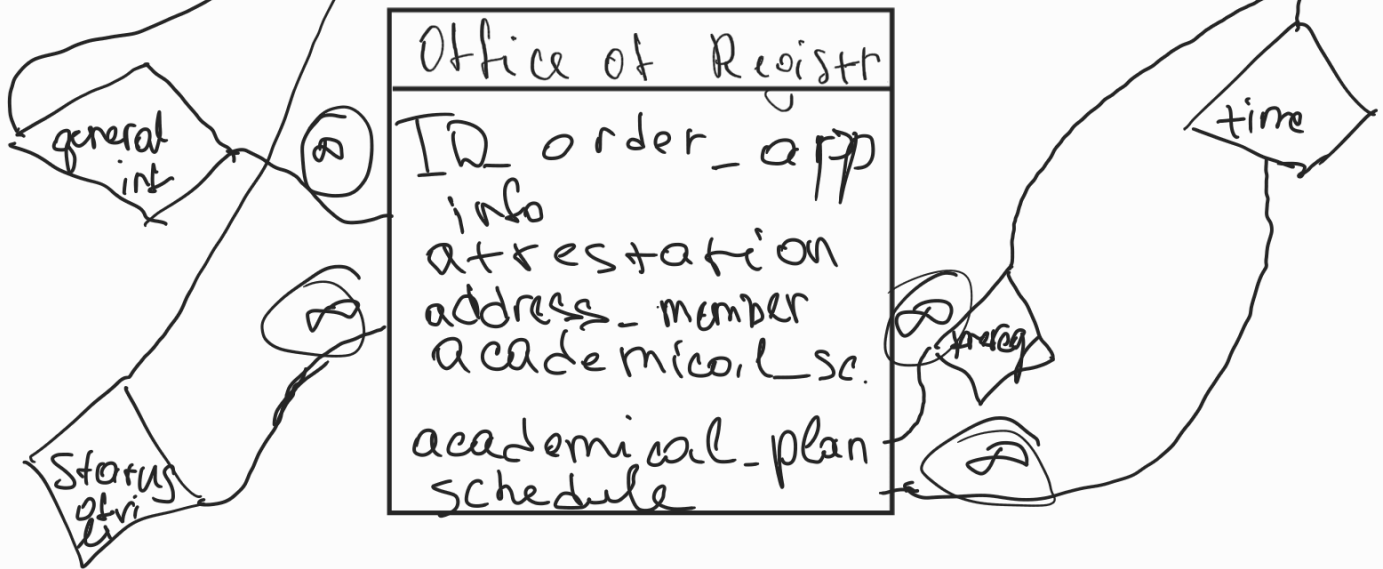
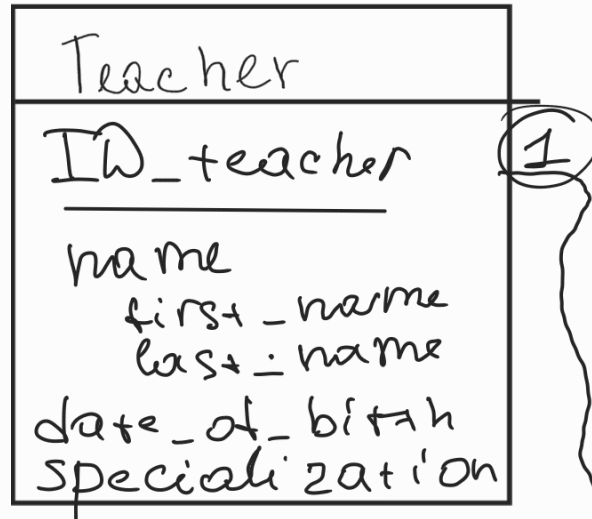
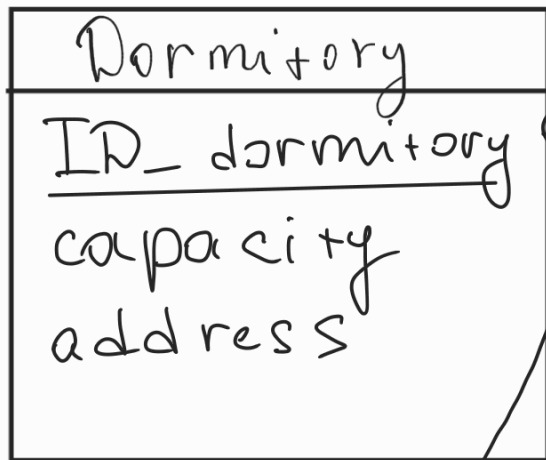
ER data model - This is a kind of flowchart that shows how different "entities" (people, objects, concepts, etc.) are related to each other within the system.

2. a)

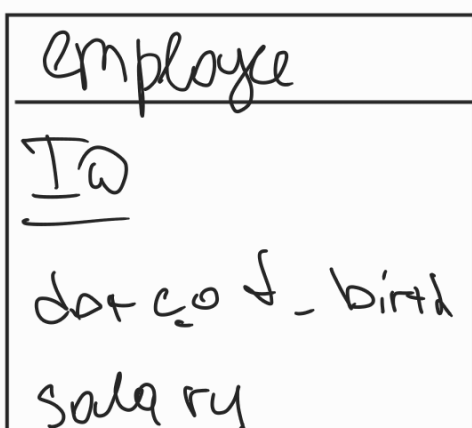


b)

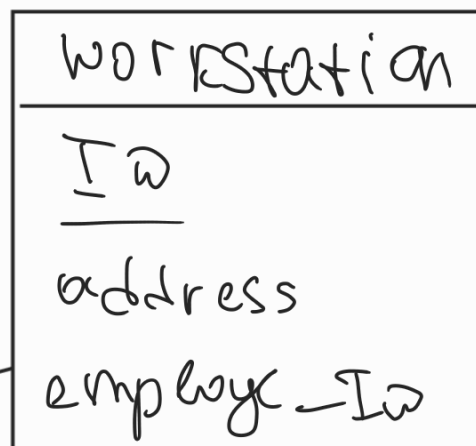




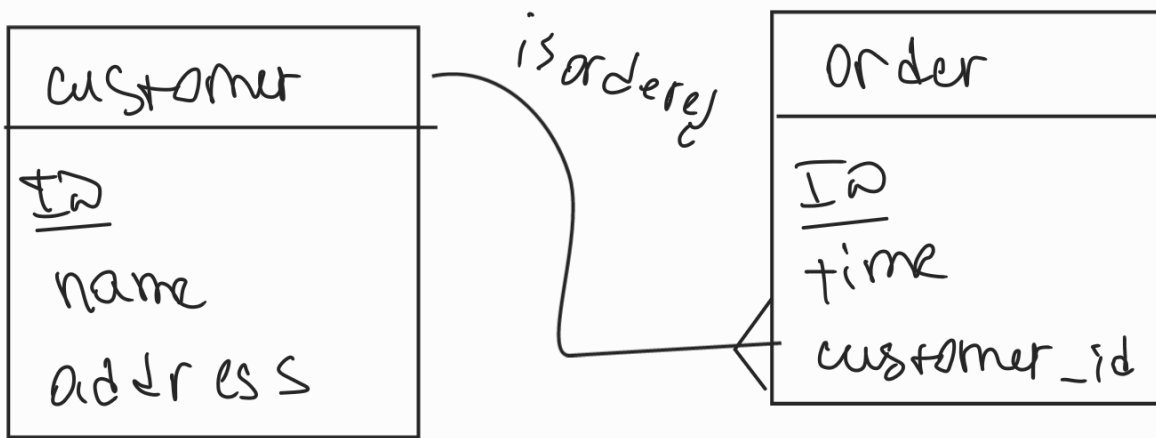
3 One to one 1-1



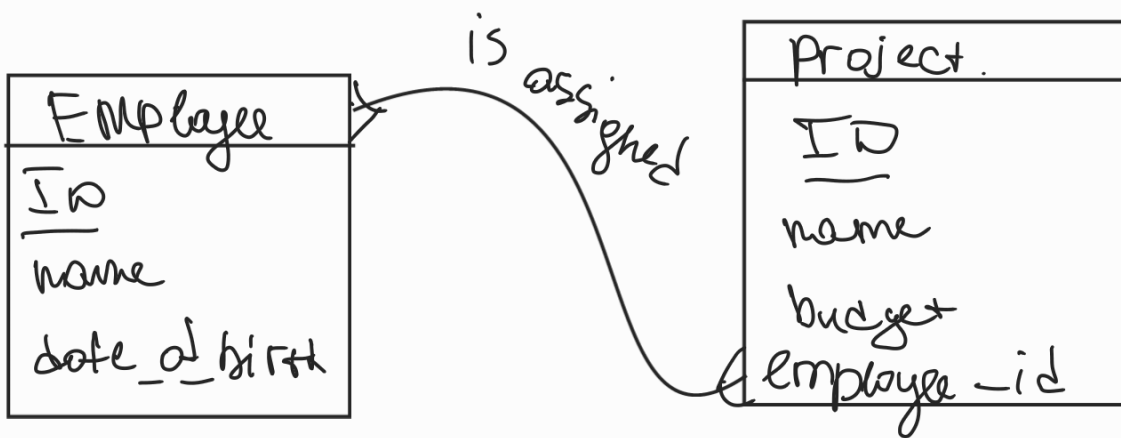
is assigned



One - to - many $1 - \infty$



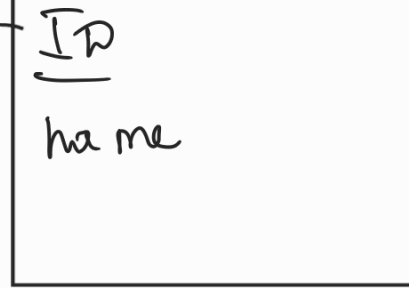
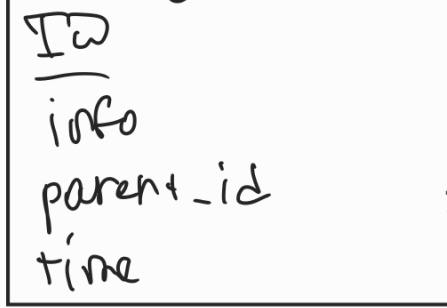
Many - to - many $\infty - \infty$



Many-to-one $\infty - 1$

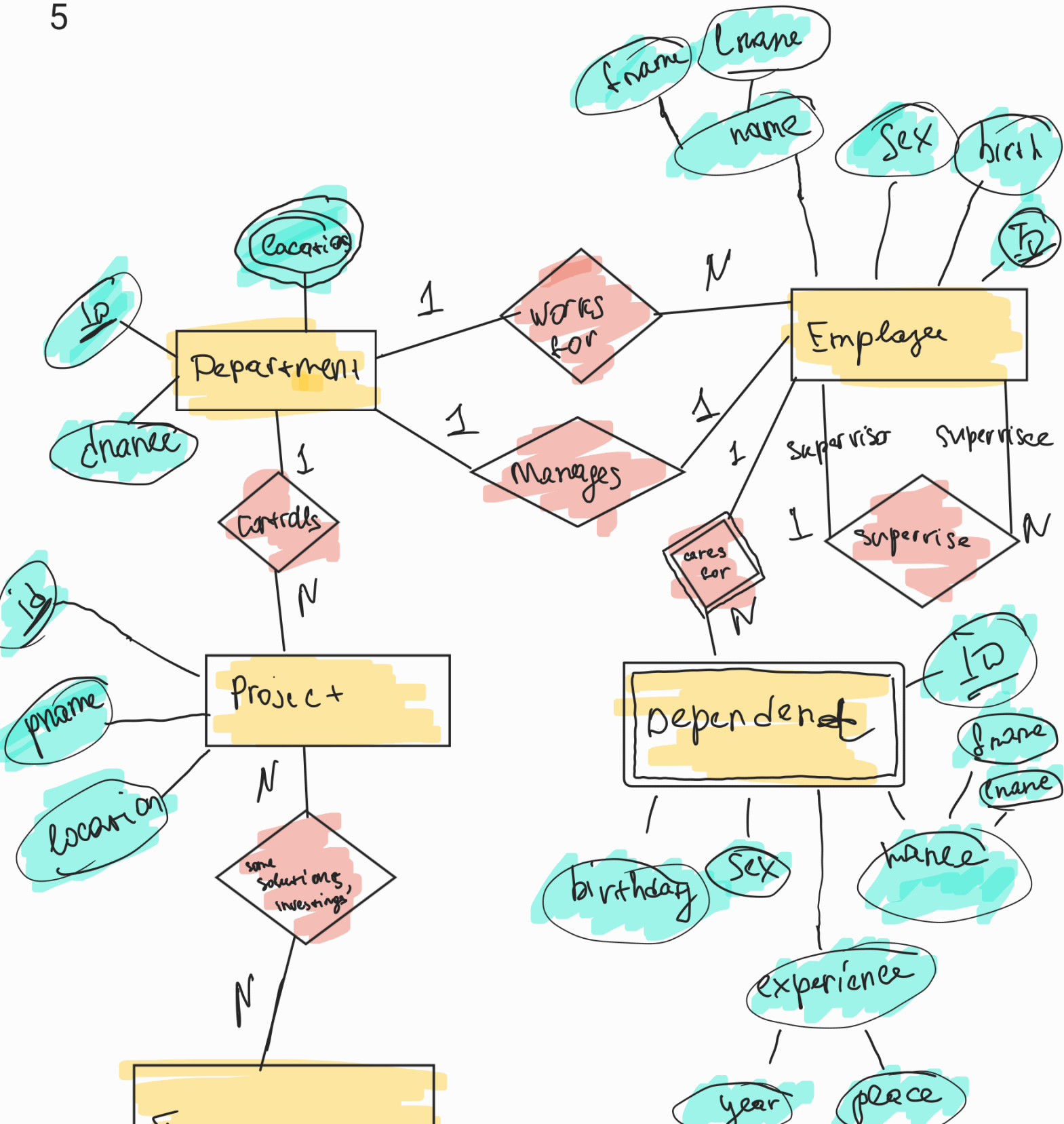
story

group



4 It is already shown at second task

5



Investors



