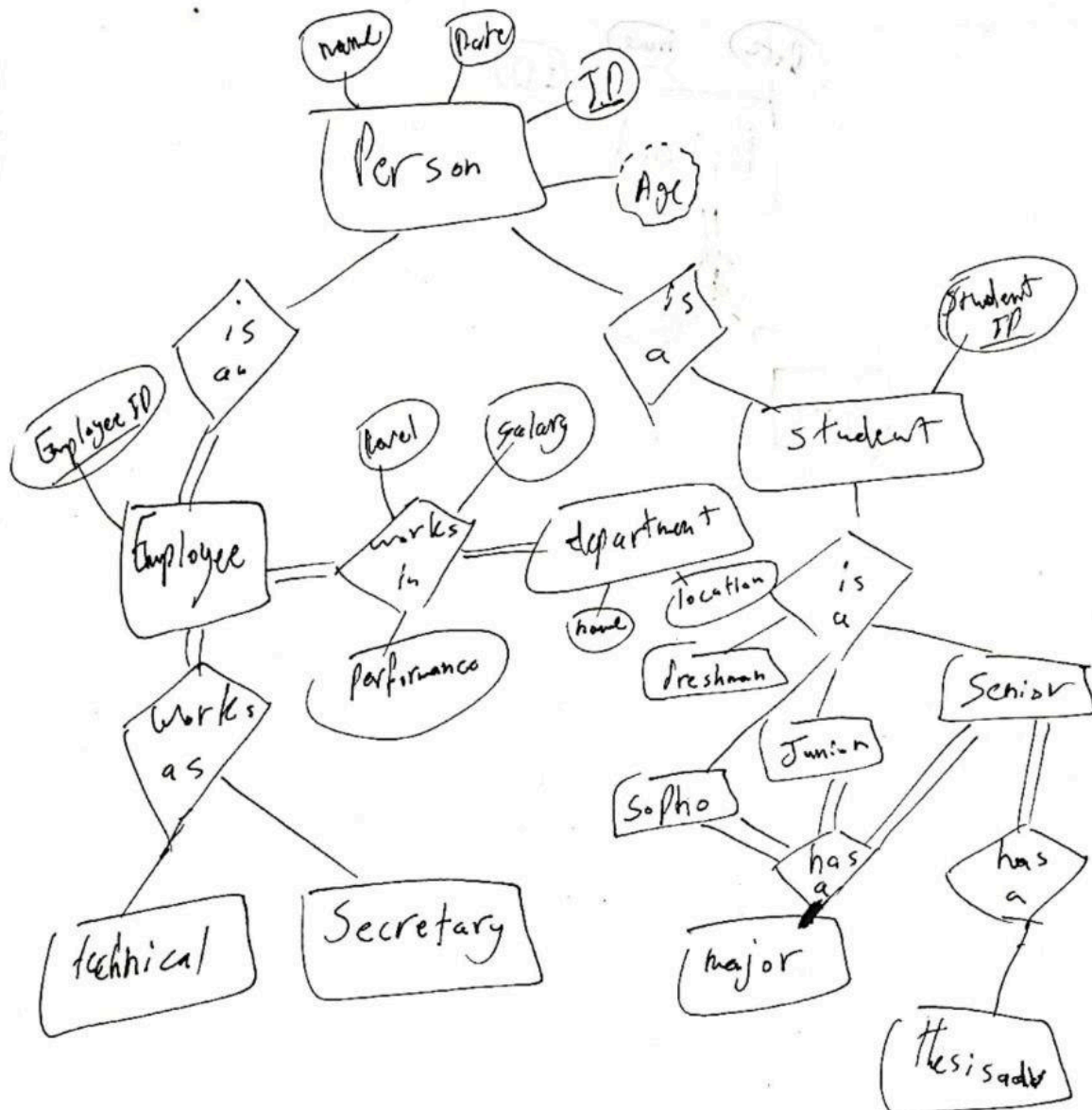
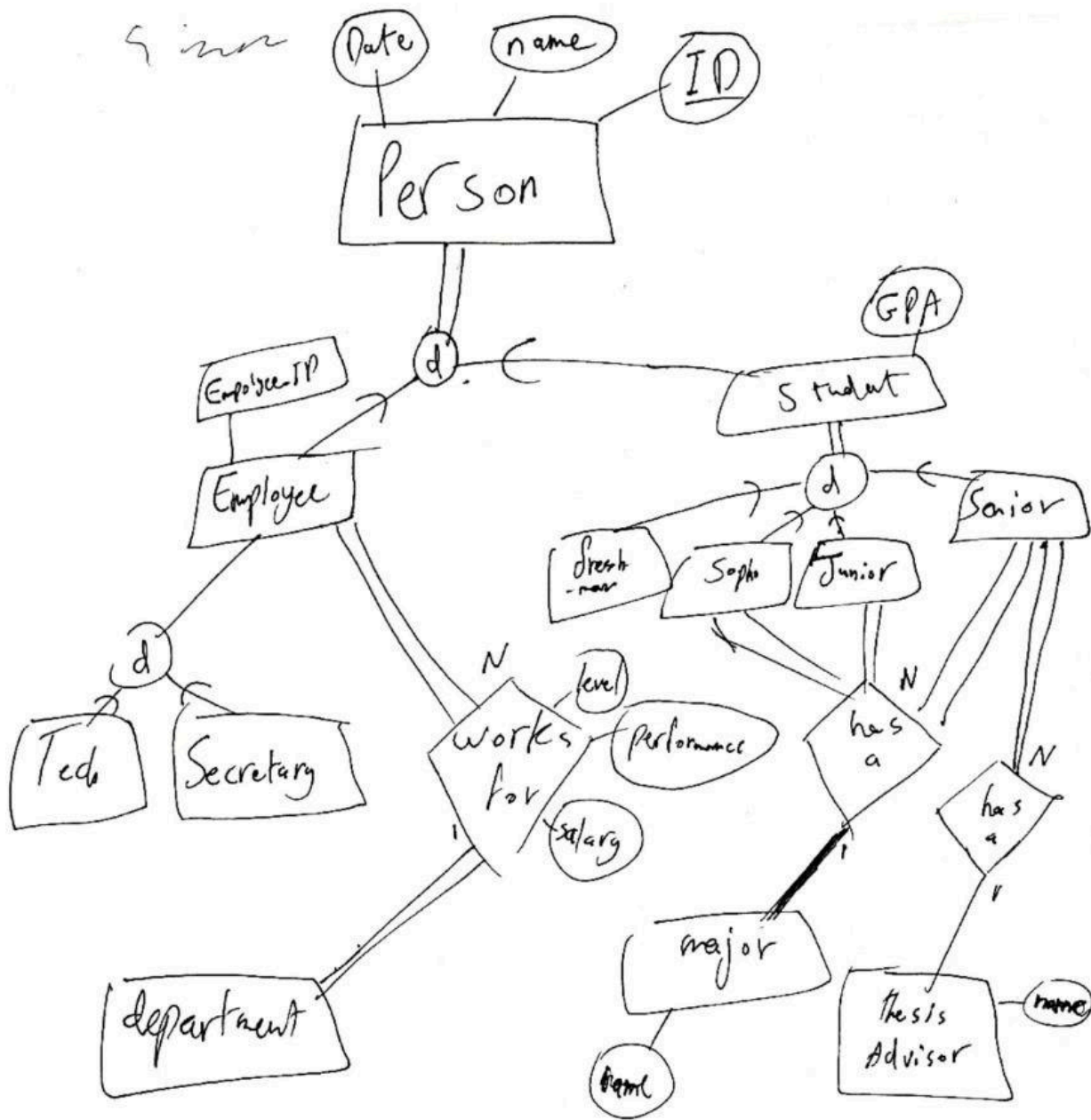


Yazan Alnakri
DS-01
y.alnakri@innopolis.university

1)



2)



3) computer: Mac address, id
Desktop: name
Software: size
operative system: name
Laptop: date(of manufacture), name
Accessory: price
component: id
Memory: capacity
Sound card: name, manufacture
video card: name, manufacture

cardinalities:

for Sold with it is 1 (computer) to many n(accessories)
for Mem options it is 1 (laptop) to many n (Memory components)
for Installed OS it is many n(computer) to many m(Operative systems)
for Installed it is many n(computer) to many m(Software)
for Supports it is many n(Software) to many m (component)
for options it is 1 (computer) to many n(component)

Explanation:

This EER diagram describes the computer systems at a company
Each computer can be sold with some accessories but the accessories cannot exist without the computer
also each computer must be either a desktop or a laptop
Each computer must have one operating system installed at least
and it can have some software installed (can be an operating system)
a desktop can have some components as options
software can support some of the components that a desktop has
a component can be a sound card, video card, or memory.
finally, each laptop must have a memory or more