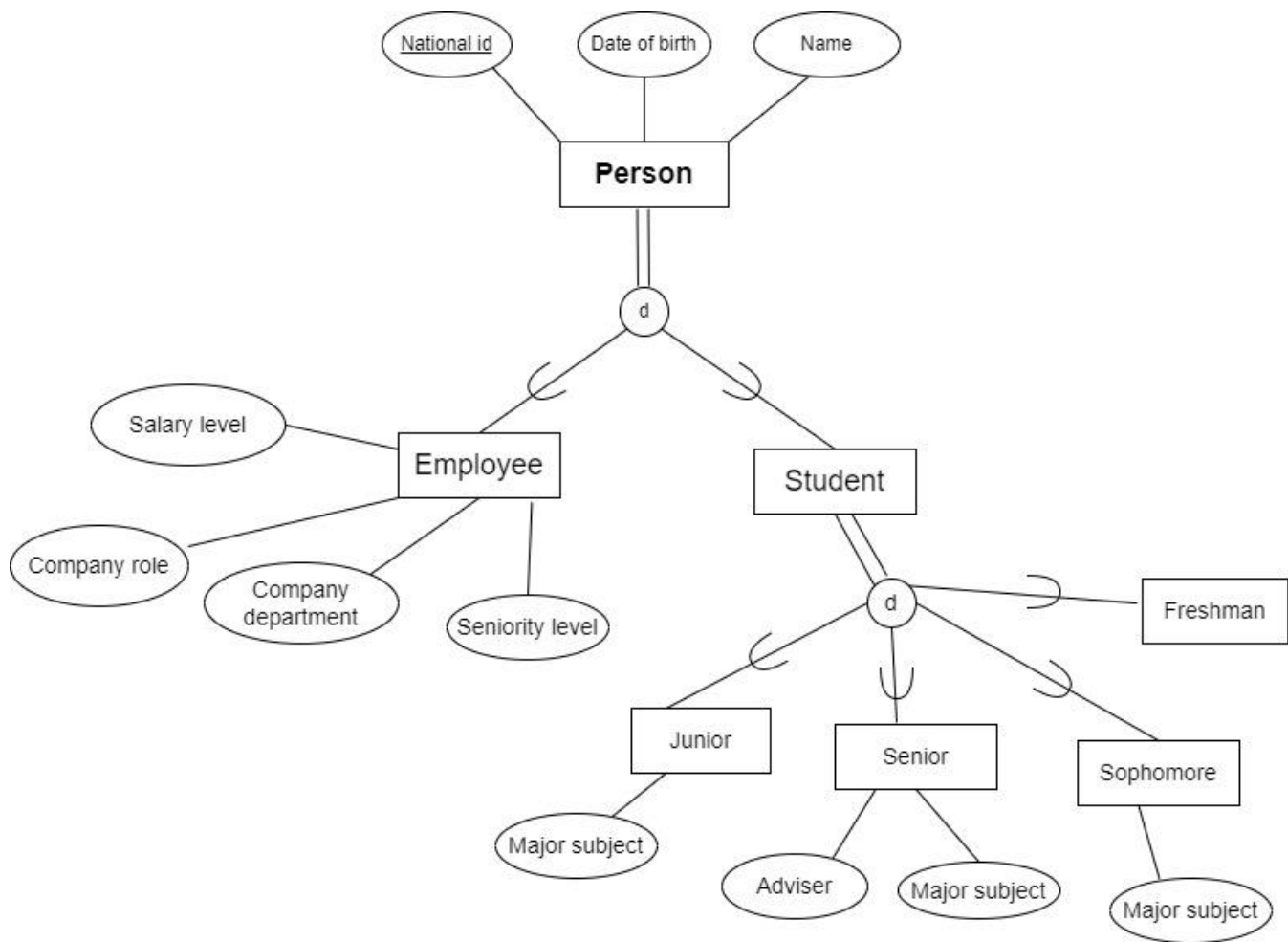


Task 1

Entity set	(a) Has relationship with	(b) Has an attribute that is	(c) is a specialization of	(d) is a generalization of	Entity set or Attribute
Mother			√		Person
Daughter	√				Mother
Student			√		Person
Student		√			Student id
School	√				Student
School	√				Classroom
Animal				√	Horse
Horse		√			Breed
Horse		√			Age
Employee		√			SSN
Furniture				√	Chair
Chair		√			Weight
Human				√	Woman
Soldier			√		Person
Enemy combatant			√		Person

Task 2



Task 3

The following EER diagram describes the computer systems at a company. Each computer has an id (key attribute), weight and manufacturer. A computer may have been sold with accessories. Every accessory has a price, id(key) and a manufacturer. Each accessory must be either a mouse, or a monitor, or a keyboard. The mouse has its own sensitivity and number of buttons. The keyboard has its own connection interface. For example, it can connect wirelessly or with a wire. In addition to it, the keyboard is divided into types: mechanical or membrane. The monitor has its own frequency and diagonal length. Every computer must be either a laptop or desktop. The laptop has a material from which the case is made. Some software may be installed on the computer. Software takes up some memory. Also, the software also has its version. Each computer has an operating system installed. Operating system has a name(key). Your computer may have some components attached. Each component has a model (key attribute), price, manufacturer. A component can be a sound card, video card, memory. Every laptop has memory options. Memory has its rate. Sound card has connection interface and number of playback channels. Video card has fill rate and frequency. Some components may support software.

