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***Question 1 :***

A diagram of a relationship

Description automatically generated with medium confidence

**Question 2 :**

**Problem 1 :**

1. **Finding Entities, key Attributes and related Attributes.**

* Doctor : doctor code , doctor’s name , date of employment , specialty.
* Patient : patient identification , patient name
* Treatment : date of treatment , duration of treatment and result.

1. **Finding relationships :**

* Hospital – Doctor : has a lot of
* Patients – doctors : are admitted to the hospital.
* Patient – doctor : Admitted by only doctor
* Doctor – Patients : can take
* Patient – Doctors : be treated by at least one doctor
* Hospital – doctor : save details to treat a patient.

1. **Weak Entities and Weak Relationships**

* Treatment

1. **Draw an ER model**

A diagram of a patient

Description automatically generated

**Problem 2 :**

1. **Finding entities**

* School : Faculties
* Faculties : Faculty code , name
* Classes : code , name , wholesale number
* Student : student ID , Full name, DOB , Gender , Address, Exam score, graduation point , a library card.
* Subject : code , name , number of credits.
* Library card : Card number , issue date , expiration date.

1. **Finding relationships :**

* School – Faculties : Own
* Department – Classes : Own
* Student – Subjects : study

1. **Weak entities and weak relationships :**

* Exam
* Graduation point

1. **Draw an ER model**