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Free Chegg Answer from TechLaCarte

1 message

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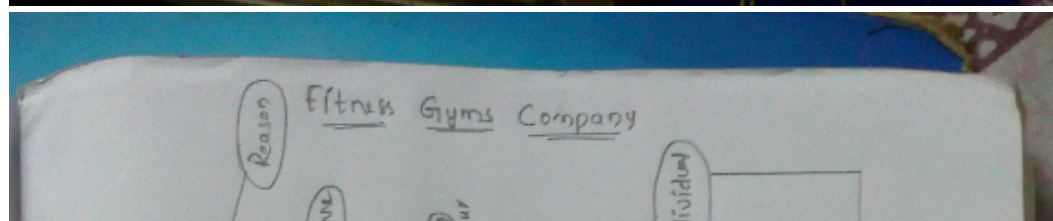
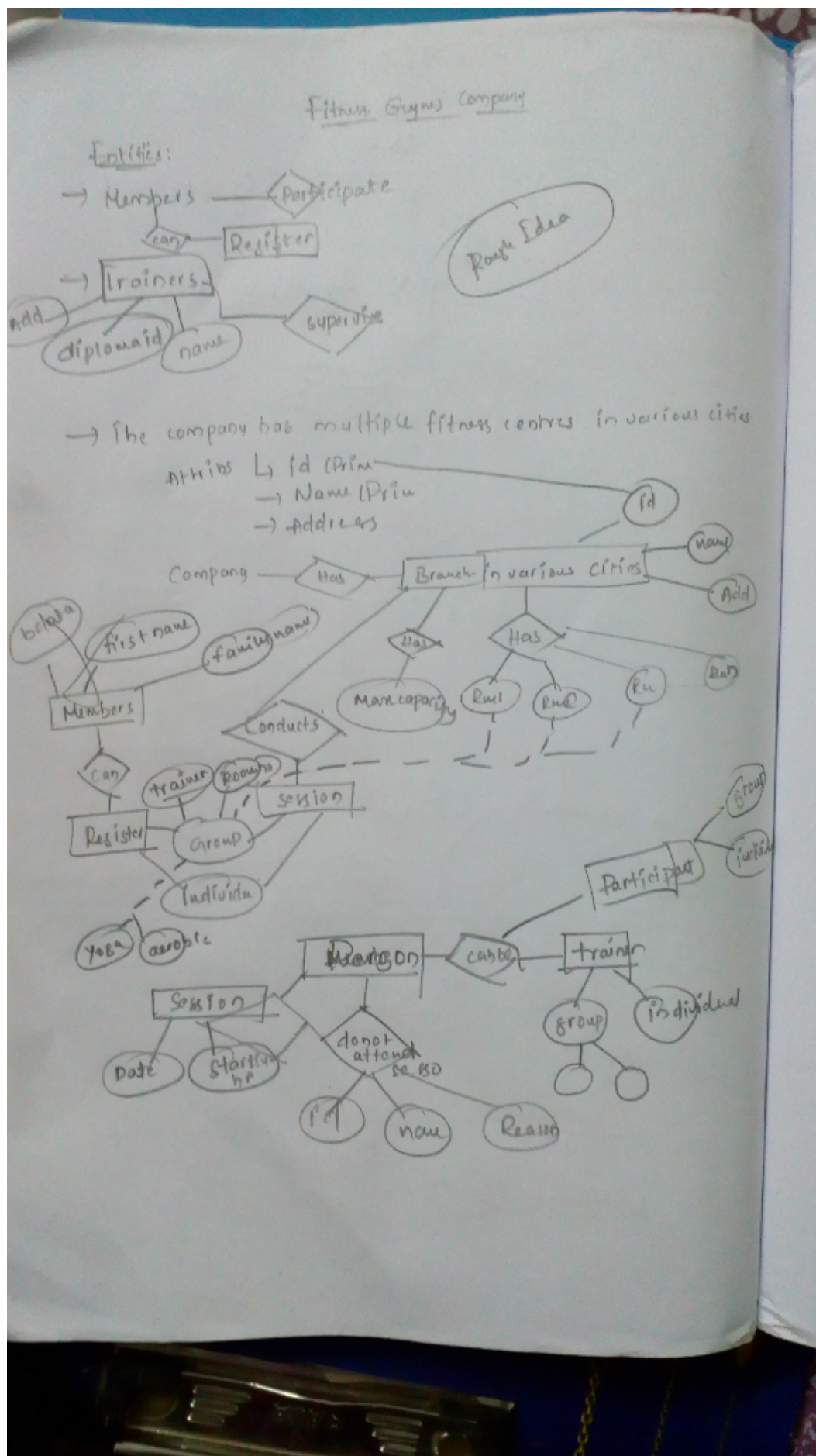
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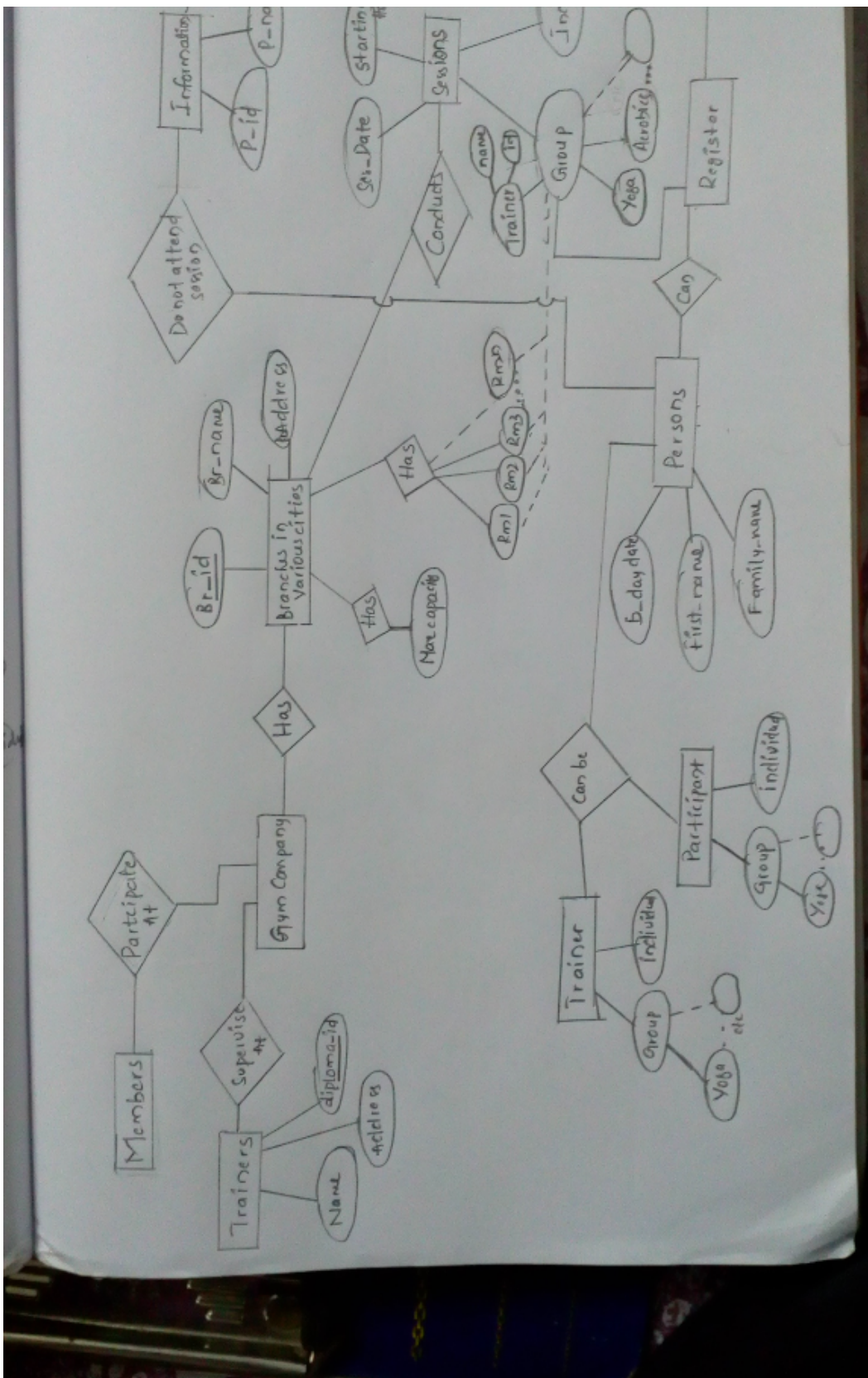
Question:

Create an E-R Diagram for the following:

You are now designing a database for a fitness gyms company. The database needs to store various information about the members and trainers. The company runs fitness sessions in which members participate and which trainers supervise. The company operates multiple fitness centers in various cities. Every center is characterized by an id, and has a unique name and an address. Every center has one or more rooms and within a center, each room has a unique number (such as 1, 2, 3, etc) and a maximum capacity. People can register for individual or group sessions in different centers. Each group session requires exactly one trainer and takes place in one room. Individual sessions are done without a trainer and do not require a room. For each person, we want to store the first name, family name, and birth date. For each trainer, the diploma id is also recorded. A person can be a trainer in one session and participant in another session (either individual or group session). The model should also include information about people (e.g. prospects) that have not participated in any sessions yet, or trainers (e.g.. interns) that have not supervised any group sessions yet. For each session, the date and starting hour should be recorded. For group sessions, also the type should be stored (e.g., aerobics, yoga, etc.). Sessions start on specific timeslots and can start at the same time on the same day but in different rooms of a center or in different centers. At a given start hour of a given day, at most one individual or group session can start in a given room of a given center.

Expert Answer





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