Collect / Describe the requirements.

Database of gym GymBros. Gym has coaches, employees, members, membership types, marketing, exercises, workout plans, payment.

Coaches have name (fname, lname), phone number, address (city, street).

Employees have name (fname, lname), phone number, address (city, street), username and password. They can access the system and do member registration and receive payments from the members.

Members have member name (fname, lname), address (city, street), phone number, age, and gender, have personal coach and associated with employee. They select membership type, membership start and expiration date, make payments.

Membership type has membership name, membership description, membership price.

Marketing has promotion name and upload file. Part of the marketing strategy of the gym is to provide the audience a promotional campaign in a form of digital content such as videos, images and slideshows.

Exercises have exercise name and description.

Workout plans are made by coaches from exercises. Coach suggests workout plan to members, select time and date for it.

Payment has amount, time and date of payment.

Consider business rules/requirements.

Coach may train many members, each member may have many coaches.

Coach may create many workout plans, each workout plan may be created by many coaches.

Employee can process many payments, each payment may be processed by only one employee.

Employee can register many members, each member can be registered by one employee.

Employee makes marketing, one marketing can be made by many employees.

Member can have many coaches, each coach can have many members.

Member can choose one membership type, each membership type can be chosen by many members.

Member can choose many workout plans, each workout plan can be chosen by many members.

Member can make many payments, each payment is done by only one member.

Member can be registered by one employee, each employee can register many members.

Membership type can be chosen by many members, each member can choose only one membership type.

Marketing is made by many employees, each employee can make many marketings.

Exercises may compose many workout plans, each workout plan is composed of many exercises.

Exercises are chosen by many coaches, each coach may choose many exercises.

Workout plans are made by many coaches, each coach may make many workout plans.

Workout plans consist of many exercises, each exercise may be used in many workout plans.

Payment can be made by one member, each member can make many payments.

Payment can be received by one employee, each employee can receive many payments.

ER Diagram design.

Identify entities.

coaches, employees, gym members, membership types, marketing, exercises, workout plans, payment.