Suppose you are given the following business rules and first attempt at a DB design to form the basis for your database design of a problem. The database must enable the manager of a company dinner club to mail invitations to the club's members, to plan the meals, to keep track of who attends the dinners, what dinners were served when and so on.

* Every member receives an invitation to each dinner.
* Members must respond to the invitation if they intend to attend the dinner.
* A dinner is based on a single entree, but an entree may be used as the basis for many dinners. For example, a dinner might be composed of a fish entree, rice and corn. Or the dinner might be composed of a fish entree, baked potato and string beans.

Draw the ER diagram.

* Rmember your first pass at designing this way is to include **all**the attributes of each entity, then find the relationships by attributes that refer to other entities.
* Be sure to include whether the relationships are partial or total, and the cardinality ratio.

Map your ER diagram to a relational schema (tables).