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■ Restaurant Exercise

The owner of a small restaurant wants a new information system to store data for all meals consumed there and also to keep a record of ingredients kept in stock. After some research he reached the following requirements list:

- Each ingredient has a name, a measuring unit (e.g. olive oil is measured in liters, while eggs are unit based) and a quantity in stock. There are no two ingredients with the same name.
- Each dish is composed of several ingredients in a certain quantity. An ingredient can, of course, be used in different dishes.
- A dish has a unique name and a numeric identifier.
- There are several tables at the restaurant. Each one of them has a unique numeric identifier and a maximum amount of people that can be seated there.
- In each meal, several dishes are consumed at a certain table. The same dish can be eaten more than once in the same meal.
- A meal takes place on a certain date and has a start and end time. Each meal has a responsible waiter.
- A waiter has a unique numerical identifier, a name, an address and a phone number.
- In some cases, it is important to store information about the client that consumed the meal. A client has a tax identification number, a name and an address.

[[solution](#)]

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