CSE 414 Section 4 Practice Worksheet

Problem 1: Entity Relationship Diagram

Consider the following database schema for a restaurant.

       Ingredient(iid, name, allergen)
       Dish(did, name, description, category)
       IngredientIn(iid, did)
       Order(oid, customer)
       DishOrder(oid, did, num)

Draw an E/R diagram to represent the database, with the Ingredient, Dish, and Order tables as the entities, and IngredientInt and DishOrder as the relationships. Make sure to enforce the following constraints:

1. Ingredient**.iid,** Dish**.did,** Order**.oid** are the primary keys of the corresponding tables
2. A Dish should have **at least one** Ingredient.
3. An Order should have **at least one** Dish.