

CSE 414 Section 4 Practice Worksheet

SOLUTIONS

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 IngredientIn 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.

