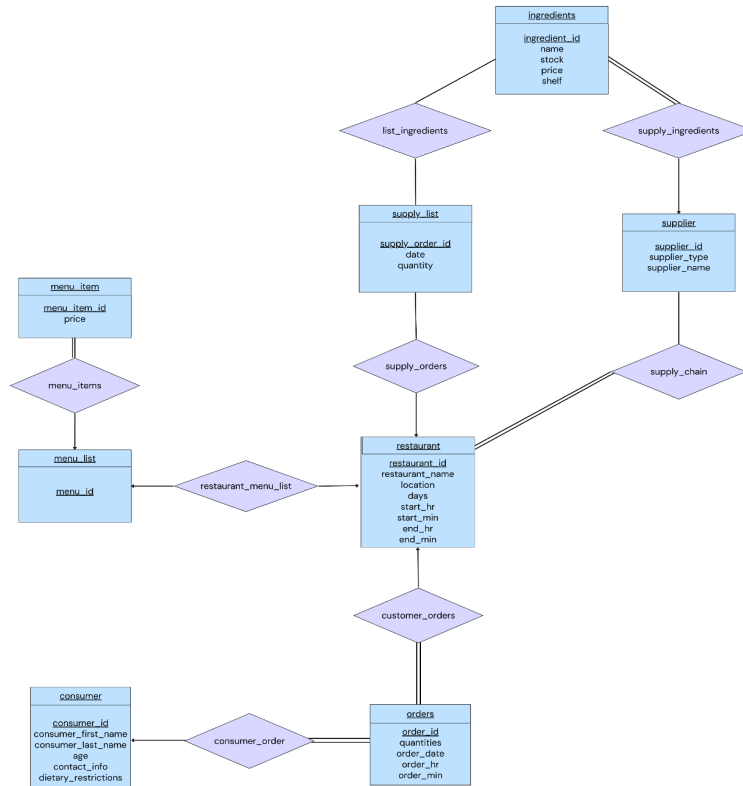


Project 2B Writeup  
Cheyenne Hwang, Grace Yoon, Kritika Jothishankar  
Catering Database

**Final ER Diagram**[Better Quality Viewing Link](#)

## Carrot Catering ER Diagram

For Project 2 Milestone  
Roles: Supplier, Caterer/Restaraunt, Consumer  
Cheyenne Hwang, Kritika Jothishankar, Grace Yoon



[Better Viewing Link](#)

### Final Schema

consumer(consumer\_id, consumer\_first\_name, consumer\_last\_name, age, contact\_info, dietary\_restrictions)  
restaurant(restaurant\_id, restaurant\_name, location, days, start\_hr, start\_min, end\_hr, end\_min)  
supplier(supplier\_id, supplier\_type, supplier\_name)  
supply\_list(supply\_order\_id, date, quantity)  
ingredients(ingredient\_id, ingredient\_name, stock, i\_price, shelf, supplier\_id)  
menu\_item(menu\_item\_id, m\_price, menu\_id)  
menu\_list (menu\_id)  
orders(order\_id, quantities, order\_date, order\_hr, order\_min, consumer\_id, restaurant\_id )  
supply\_chain(supplier\_id, restaurant\_id)  
list\_ingredients(ingredient\_id, supply\_order\_id)

supply\_orders(supply\_order\_id, restaurant\_id)  
restaurant\_menu\_list(menu\_id, restaurant\_id)

### **Functional Dependencies**

The following functional dependencies ensure BCNF for the Carrot Catering Database to minimize data repetition. Each primary key uniquely identifies another attribute within the database.

- consumer\_id → consumer\_first\_name, consumer\_last\_name, age, contact\_info, dietary\_restrictions
- restaurant\_id → restaurant\_name, location, days, start\_hr, start\_min, end\_hr, end\_min, supplier\_id
- supplier\_id → supplier\_type, supplier\_name, restaurant\_id
- supply\_order\_id → date, quantity, restaurant\_id
- ingredient\_id → ingredient\_name, stock, i\_price, shelf, supplier\_id
- menu\_item\_id → m\_price, menu\_id
- menu\_id → restaurant\_id
- orders\_id → quantities, order\_date, order\_hr, order\_min

### **Carrot Catering Interface Instructions**

The Carrot Catering interface allows users to do the following:

1. **View all consumers:** Generates a list of all consumers who have placed an order with a Carrot Catering restaurant.
2. **View all restaurants:** Generates a list of all restaurants involved in Carrot Catering.
3. **View all suppliers:** Generates a list of all suppliers involved in Carrot Catering.
4. **View all consumer orders:** Generates a list of all orders placed with Carrot Catering.
5. **Create a new consumer:** Creates a new consumer within the Carrot Catering database.
  - a. To specify a new consumer, enter in the following:
    - i. Consumer ID
    - ii. First Name
    - iii. Last Name
    - iv. Age (Optional)
    - v. Phone Number
    - vi. Dietary Restrictions (Optional)
6. **View all restaurant suppliers:** Generates a table with all restaurants and their respective suppliers.