CPSC 304 Project Instructions: Formal Specifications

I.

1) Restaurant owner and customer
2) INSERT : when user makes a new reservation, we record it to the reservation table based on user's given information
    Input – user's given information such as reservation date, time, number of customers
    Output – new record of reservation
3) DELETE: owner can make changes to food menu such as removing current food
    Input – FoodID
    Output – removal of Food
4) UPDATE: owner can update the food menu such as changing the price
    Input – things the owner wants to update, for instance: price of the food
    Output – an updated food menu
5) Owner would be able to find all the customer names who have written review for the restaurant – join restaurant, review and customer tables
    Input – owner id (OwnerID)
    Output – customer name (cname)
6) Owner should be able to get the total price of all the reserved food from a reservation
    Input – reservationID
    Output – sum of all the reserved food price
7) Owner should be able to read all the reviews
    Input – ownerID
    Output – content of the review
8) Owner wants to find the most popular food in his/her restaurant (group by FoodID in table "contain"
    Input – restaurant phone number
    Output – table with count of ReservationID in the descending order
9) INSERT- customer can write review for the restaurant
    Input – content
    Output – a new record of review
10) INSERT- restaurant can add new food
    Input – foodname and price of the food
    Output – new record of food
11) UPDATE- customer can update the review
    Input – review content
    Output – an updated version of review
12) CREATE VIEW : Customer should be able to see name, address, phone number and score of the restaurant

II.   We are planning to equally divide the number of tasks except for tasks d, f and g. We will work all together on tasks d, f and g.

Create the tables and other database objects – Joey (p2e0b)

Create data for the tables. Then, populate (load) the tables – Anun (e5e0b)

Code each set of queries and test them in SQL (e.g., Oracle's SQL*Plus or another DBMS of your choice) – Dian Chi (y9d0b)

Test each set of queries. Determine how errors will be handled – Serena (t2e0b)