Restaurant (Address, rname, resscore, <u>restaurant phone number</u>, **OwnerID**)
Primary key: <u>Restaurant phone number</u>
Foreign key(s): OwnerID reference from Owner

Owner (<u>OwnerID</u>, oname, **restaurant phone number**)
Primary key: <u>OwnerID</u>
Foreign key(s): **restaurant phone number** references Restaurant

Review (<u>ReviewID</u>, **restaurant phone number, customer phone number**, content, revscore)
Primary key: <u>ReviewID</u>
Foreign key(s): **restaurant phone number** references Restaurant, **customer phone number** references Customer

Reservation (<u>ReservationID</u>, date, time, number of customers, **customer phone number**, **restaurant phone number, OwnerID**)
Primary key: <u>ReservationID</u>
Foreign key(s): **customer phone number** references Customer, **restaurant phone number** references Restaurant**, OwnerID** references Owner

Customer (<u>customer phone number</u>, cname)
Primary key: <u>customer phone number</u>
Foreign key(s):

Member (<u>customer phone number</u>, points, birthdate, cname)
Primary key: <u>customer phone number</u>
Foreign key(s):

Food (<u>FoodID</u>, price, fname, **restaurant phone number**)
Primary key: <u>FoodID</u>
Foreign key(s): **restaurant phone number** references Restaurant

Contain (**<u>FoodID, ReservationID</u>**)
Primary key: FoodID, ReservationID
Foreign key: **FoodID** references Food**, ReservationID** references Reservation

Functional dependency
All the FD with Primary keys as determinant are implied.
There is no other FDs.
Thus, all the tables are already in BCNF
All the keys are identified by underline
Participation constraints are identified in the ER Diagram