① Customer (CustomerID , Title, First Name, Last Name, Email Address, Contact Number), Contact Number not null,

② Booking (CustomerID , BookingID , End Date And Time, Start Date And Time, Number Of People, Special Requests) Number Of People > 1
  foreign key (CustomerID) references Customer on (delete cascade ; (update

③ Makes 关系 ④ Table (TableID , Location, Seating Capacity, Comments)

⑤ Reserves (TableID , CustomerID , BookingID) foreign key, on (delete (update cascade

⑥ Order (OrderID , ~~TableID~~ Table ID) , Order DateTime, Total Charge) for key, on del/up cascade, Total Charge Not Null

⑦ Takes 和 Order 合并   ⑧ Menu (MenuID , Name, Description)

⑨ Menu Item (MenuItemID , Name, Description, Price) Price NotNull

⑩ Includes (MenuID , MenuItemID) for key, on del/up cas

⑪ OrderItem (OrderID , MenuItemID , LineID , Quantity, Charge, Special Request) for key, on del/up cas, Charge Not Null

⑫ Includes 关系 ⑬ Is For 关系

Right margin notes:

① All dates should be Not Null

② All names should be Not Null

? ⑦ start date < End date

Bottom left — create table:

```
⑭ ⑥ create table OrderItem
    (OrderID int,
     MenuItemID int,
     LineID int,
     Quantity int,
     Charge  float(2) not null,
     SpecialRequest varchar(100),
     primary key (OrderID, MenuItemID, LineID),
     foreign key (OrderID) references Order on delete cascade on update cascade,
     foreign key (MenuItemID) references MenuItem on delete cascade on update cascade);
```

Insert statements:

① ⑩ insert into Customer values (1, 'Mr', 'Yuming', 'JIANG', 'cjcjiang@gmail.com', '5049157630');

② insert into Booking values (1, 1, '某time', '某另一日期', 4, 'No special request');

③ insert into Table values (1, ~~Tel Abercrombie~~ 'nearest to the door', 4, 'good table');

⑤ insert into Reserves values (1, 1, 1,);

⑥ insert into Order values (1, 1, 'Order时间', 50.25);

⑧ insert into Menu values (1, 'BBQ Pork', 'meat Pork with BBQ');

⑨ insert into MenuItem (1, 'Pork BBQ', 'Pork with BBQ', 50.25);

⑩ insert into Includes (1, 1);

⑪ insert into OrderItem (1, 1, 1, 1, 50.25, 'No special request');

```sql
① create table Customer
    (CustomerID int,
     Title varchar(5),
     FirstName varchar(20) not null,
     LastName varchar(20) not null,
     EmailAddress varchar(50),
     ContactNumber int not null,
     primary key (CustomerID));

② create table Booking
    (CustomerID int,
     BookingID int,
     EndDateAndTime timestamp not null, default current_timestamp
     StartDateAndTime timestamp not null default current_timestamp,
     NumberOfPeople int check (NumberOfPeople > 1),
     SpecialRequests varchar(100)
     Primary key (CustomerID, BookingID),  CHECK (EndDateAndTime > StartDateAndTime),
     foreign key (CustomerID) references Customer on delete cascade on update cascade);

③ create table "Table"
    (TableID int,
     Location varchar(100),
     SeatingCapacity int,
     Comments varchar(100), primary key (TableID));

④ create table Reserves
⑤    (TableID int,       foreign key (CustomerID) references Customer on delete cascade on update cascade,
     CustomerID int,    foreign key (BookingID) references Booking on delete cascade on update cascade);
     BookingID int,
     primary key (TableID, CustomerID, BookingID),
     foreign key (TableID) references Table on delete cascade on update cascade,

⑥ create table Order
    (OrderID int,
     TableID int,
     OrderDateTime timestamp not null default current_timestamp,
     TotalCharge float(2) not null,
     primary key (OrderID),
     foreign key (TableID) references Table on delete cascade on update cascade);

⑧ create table Menu
    (MenuID int,
     Name varchar(20) not null,
     Description varchar(50)
     primary key (MenuID));

⑨ create table MenuItem
    (MenuItemID int,
     Name varchar(20) not null,
     Description varchar(50),
     Price float(2) not null,
     primary key (MenuItemID));

⑩ create table Includes
    (MenuID int,
     MenuItemID int,
     primary key (MenuID, MenuItemID),
     foreign key (MenuID) references
     Menu on delete cascade on update
     cascade,
     foreign key (MenuItemID) references
     MenuItem on delete cascade on
     update cascade);
```