36.Food Delivery Service

Food delivery service is a service like similar to courier service in which the ordered food is delivered from the restaurant to the customer either by the restaurants's staff or by delivery agents of a food ordering company.

Draw and ER diagram for analysing the food delivery by process:

Identify the entities,attributes and relationships of the described problem domain and draw the ER Diagram.

Food delivery first depends on the order by customer.Restarants provide menus and their details in some apps.The restarants depends on customer order. When customer order food and done by payment ,those details were reached restarants such as order_id,customer_id,menu_id, delivery_address,total_price for order and he's status. Restarants picks order details ready to send food throw driver like service boy.Driver deliver food ask customer to give rating.

Summary of entities and its attributes:

1.Food delivery first depends on order by customer.So there is an entity called order with following attributes, order_id,customer_id,menu_id,delivery_address,total_price,status.

2.Customer is entity order food selecting restarants to confirm order provide details such as customer_id,name,address,phone_number and this attributes of Customer.

3.After providing details customer make payment(entity)or cash on delivery .This entity attributes,payment_id,order_id,amount,payment_method.

4.Mainly Restanrant is entity attributes are restaurants_id,name,address,phone_number.It provide menu (entity) with attributes menu_id,restaurants_id,name,description,price.

5.Driver is an entity he person to deliver food.coming driver attributes is driver_id,name,phone_number,vehicle_type.

6.Food arrived to customer is known as delivery(entity) and its attributes is delivery_id,order_id,driver_id,delivery_status.Delivery status will tell whether food is delivered or not.

7.This is final step of food delivery service customer to give rating to order.Here rating is an entity with attributes rating_id,order_id,stars,comment.

Summary of entity relationship:

Restaurant:

- One restaurant can have multiple menu items (1 to many relationship with Menu).
- One restaurant can have multiple orders (1 to many relationship with Order).
- One restaurant can have multiple promotions (1 to many relationship with Promotion).
- One restaurant can have multiple items in inventory (1 to many relationship with Inventory).

Customer:

- One customer can place multiple orders (1 to many relationship with Order).
- One customer can give multiple ratings (1 to many relationship with Rating).

Order:

- One order is placed by one customer (many to one relationship with Customer).
- One order is associated with one restaurant (many to one relationship with Restaurant).
- One order can have one payment (one to one relationship with Payment).
- One order can have one delivery (one to one relationship with Delivery).
- One order can have one rating (one to one relationship with Rating).

Menu:

- One menu item belongs to one restaurant (many to one relationship with Restaurant).

Delivery:

- One delivery is associated with one order (one to one relationship with Order).
- One delivery is carried out by one driver (many to one relationship with Driver).

Payment:

- One payment is associated with one order (one to one relationship with Order).

Driver:

- One driver can carry out multiple deliveries (1 to many relationship with Delivery).

Rating:

- One rating is given for one order (one to one relationship with Order).

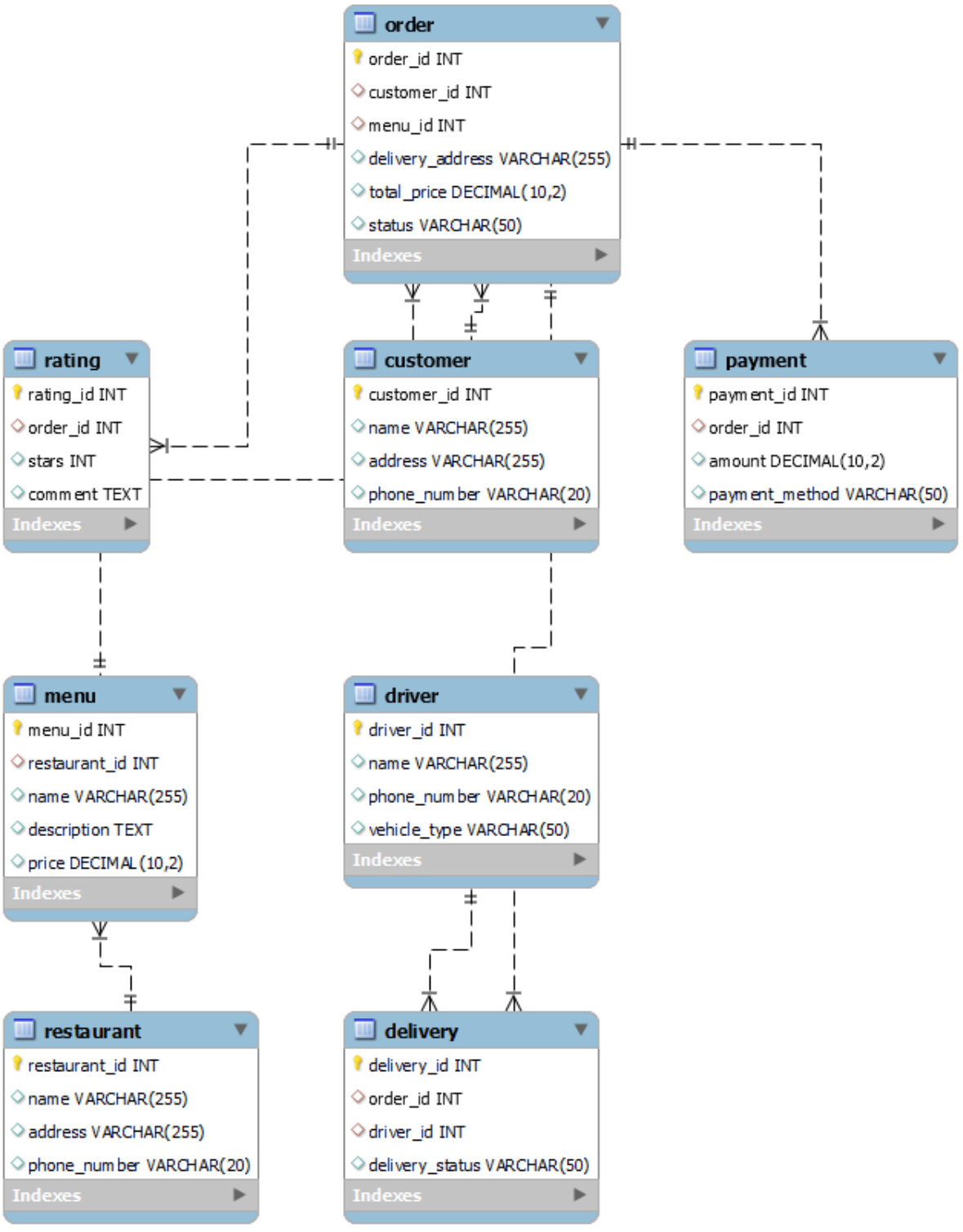
Promotion:

- One promotion is associated with one restaurant (many to one relationship with Restaurant).

Inventory:

- One inventory item belongs to one restaurant (many to one relationship with Restaurant).

ER DIAGRAM CREATED IN MYSQL WORKBECH:
Which you can observe below


order
order_id INT
customer_id INT
menu_id INT
delivery_address VARCHAR(255)
total_price DECIMAL(10,2)
status VARCHAR(50)
Indexes
rating
rating_id INT
order_id INT
stars INT
comment TEXT
Indexes
customer
customer_id INT
name VARCHAR(255)
address VARCHAR(255)
phone_number VARCHAR(20)
Indexes
payment
payment_id INT
order_id INT
amount DECIMAL(10,2)
payment_method VARCHAR(50)
Indexes
menu
menu_id INT
restaurant_id INT
name VARCHAR(255)
description TEXT
price DECIMAL(10,2)
Indexes
driver
driver_id INT
name VARCHAR(255)
phone_number VARCHAR(20)
vehicle_type VARCHAR(50)
Indexes
restaurant
restaurant_id INT
name VARCHAR(255)
address VARCHAR(255)
phone_number VARCHAR(20)
Indexes
delivery
delivery_id INT
order_id INT
driver_id INT
delivery_status VARCHAR(50)
Indexes