Railside Pizza

Railside Pizza located in Malta, Montana (population, 1,860) has been in business for 40 years selling pizza to the community. Railside has a lovely dining location on 1st Street (US Highway 2) in downtown Malta. During the COVID pandemic, Railside closed the doors to its dining room and begin taking phone orders for their pizzas. Customers can either pick up their pizza curbside or have it delivered.
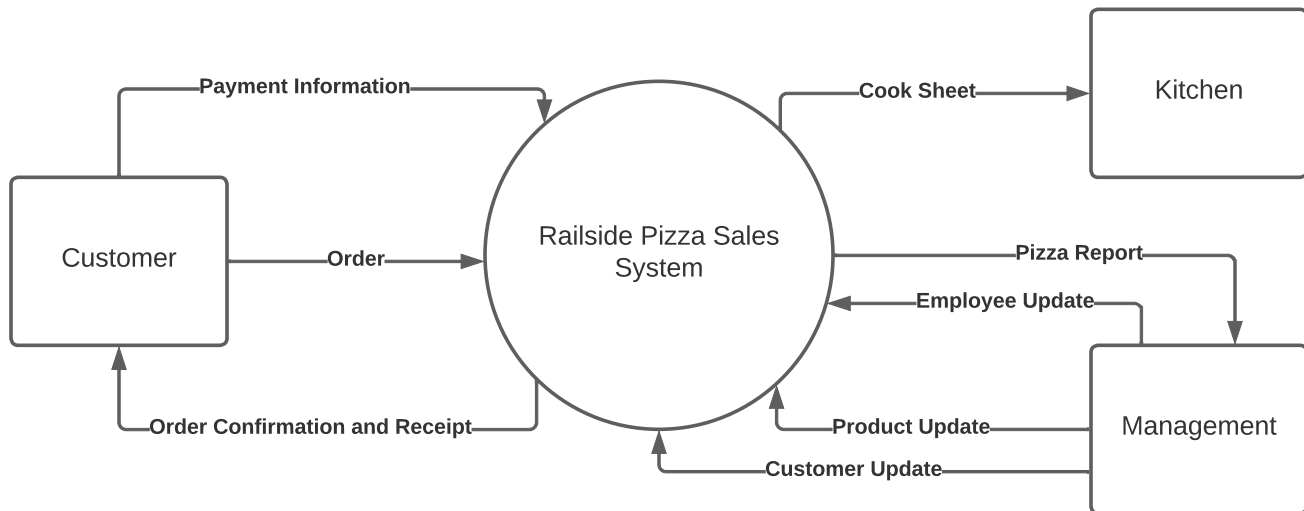
The owner recently asked for our assistance in creating a website that would allow for online ordering in addition to phone ordering. The owner believes that the younger community members would prefer using an app or website to order pizza rather than making a phone call to place the order.

Railside would like an online system that will allow customers to order and pay for their pizza. They will continue to offer either curbside or in-home pizza delivery. The system could also be used for recording phone call and dine-in customer orders.

We have been asked by Railside management to create a sales system that will allow customer orders to be placed online. In addition, the new system will allow management of Railside Pizza to keep track of the pizzas that are sold and the money that is collected from pizza sales.

Railside Pizza Sales System

Context Level Diagram | January 16, 2023

Data Repository

ORDER - A request from a customer to purchase Railside Pizza products.
<u>Order</u> = orderID + [employeeID + e. first name + e. last name] + customerID + c. first name + c. last name + [c. address + c. city + c. state + c. zip + c. phone + c. email] + {description + quantity + price} + order date + order type

PAYMENT INFORMATION - The credit card information provided by the customer.
<u>Payment Information</u> = c. first name + c. last name + c. credit card # + cc expire date + cc type

ORDER CONFIRMATION AND RECEIPT - This document summarizes the customer order and serves as the receipt for payment received.
<u>Order Confirmation and Recept</u> = orderID + customerID + c. first name + c. last name + c. address + c. city + c. state + c. zip + c. phone + c. email + {description + quantity + price} + order date + order type + order subtotal + shipping/delivery fee + order total

COOK SHEET - A listing of the items to be cooded
<u>Cook Sheet</u> = orderID + {description + quantity}

PIZZA REPORT - A document that summarizes pizza sales for each month. The report is generated monthly and summarizes sales for the previous month.
<u>Pizza Report</u> = report date + report month + {week + {day of the week + total sales for the day} + total sales for the week} + total sales for the month

PRODUCT UPDATE - Information about the menu of products offered for sale and their prices.
<u>Product Update</u> = date + productID + description + price + image

CUSTOMER UPDATE - Information about customers
<u>Customer Update</u> = customerID + c. name + c. address + c. city + c. state + c. zip + c. phone + c. email

EMPLOYEE UPDATE - Information about employees
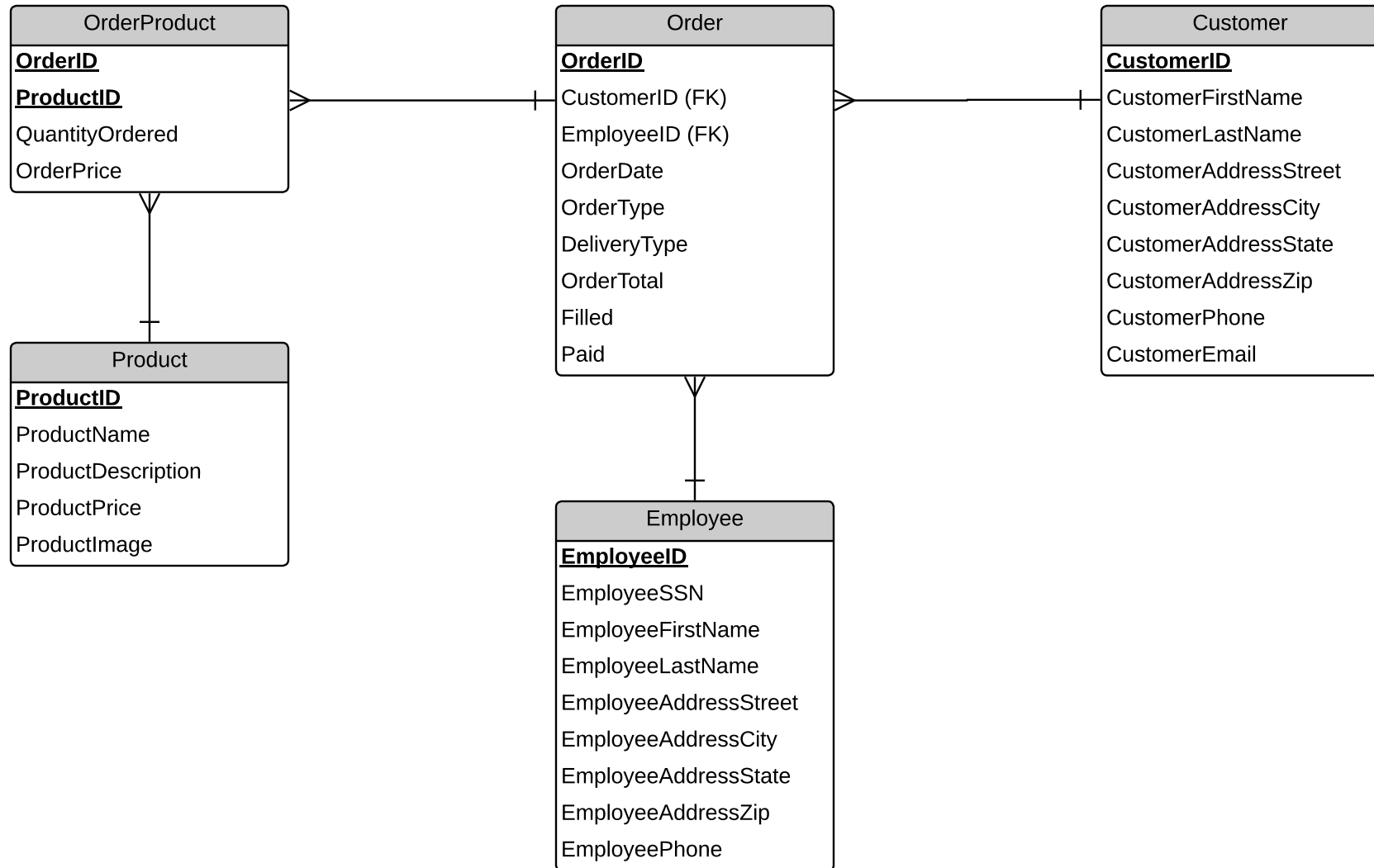<u>Employee Update</u> = employeeID + e. name + e. address + e. city + e. state + e. zip + e. phone

Legend
{ } represents repeating items (i.e., sets of attributes that repeat such as a line item.)
[ ] represents optional items

Railside Pizza Sales System

Entity-Relationship Diagram | January 16, 2023

OrderProduct

OrderID
ProductID
QuantityOrdered
OrderPrice

Order

OrderID
CustomerID (FK)
EmployeeID (FK)
OrderDate
OrderType
DeliveryType
OrderTotal
Filled
Paid

Customer

CustomerID
CustomerFirstName
CustomerLastName
CustomerAddressStreet
CustomerAddressCity
CustomerAddressState
CustomerAddressZip
CustomerPhone
CustomerEmail

Product

ProductID
ProductName
ProductDescription
ProductPrice
ProductImage

Employee

EmployeeID
EmployeeSSN
EmployeeFirstName
EmployeeLastName
EmployeeAddressStreet
EmployeeAddressCity
EmployeeAddressState
EmployeeAddressZip
EmployeePhone

Railside Pizza Sales System

Level-0 Data Flow Diagram | January 16, 2023