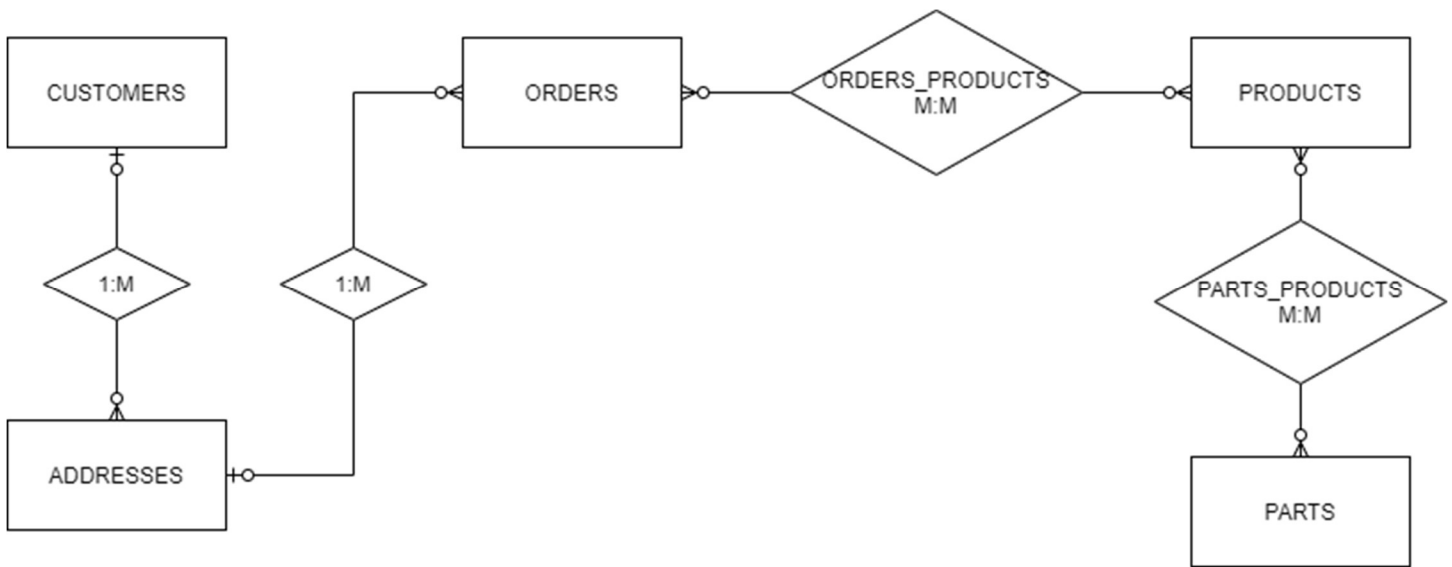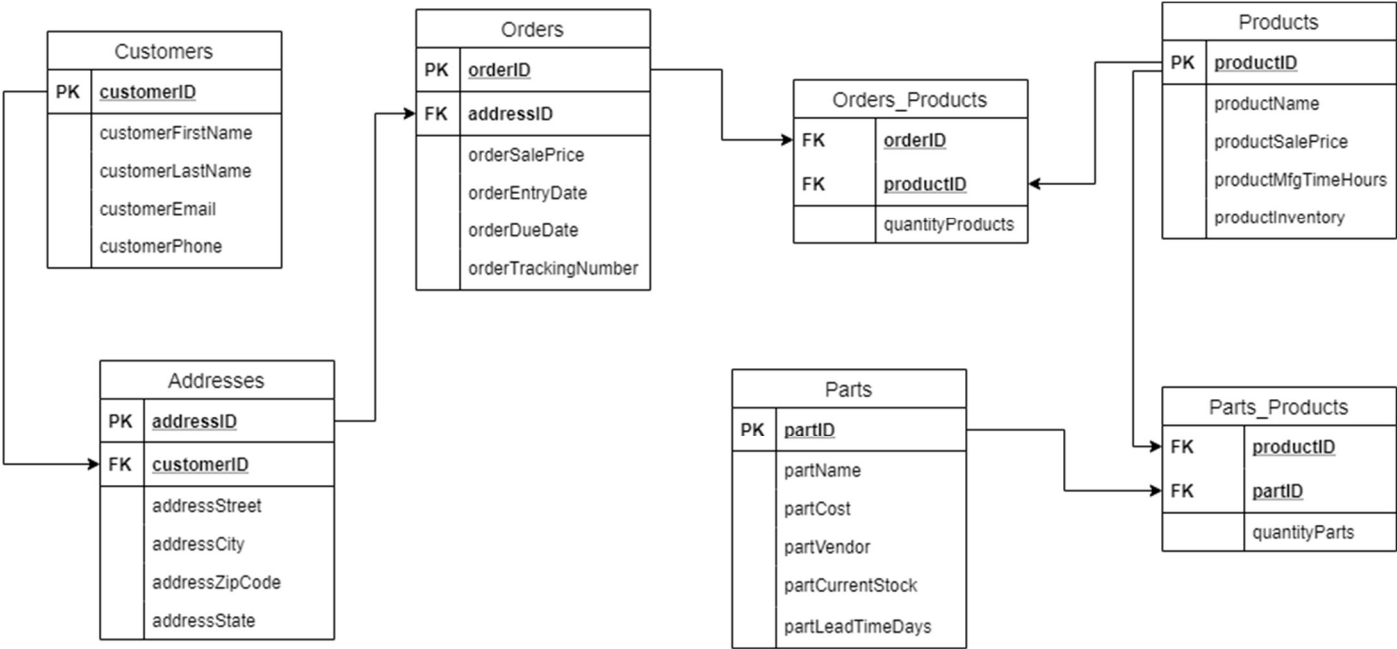# Updated Database Outline (FINAL):

- Customers - Customer related data
    - customerID: int, auto_increment, unique, not NULL, PK
    - customerFirstName: char, not NULL
    - customerLastName: char, not NULL
    - customerEmail: char, not NULL
    - customerPhone: int, not NULL
    - relationship:
        - 1:M relationship between Customers and addresses with the Customer FK being an attribute in the Addresses table

- Products - MoPa product related data
    - productID: int, auto_increment, unique, not NULL, PK
    - productName: char, not NULL
    - productMfgTime: double, not NULL, > 0 hrs
    - productInventoryL int
    - productSalePrice: double, not NULL, > $0
    - relationship:
        - M:M relationship between Products and Parts is implemented with a relationship table with productID and partID
        - M:M relationship between Products and Orders is implemented with a relationship table with productID and orderID

- Orders - Customer's Order related data
    - orderID: int, auto_increment, unique, not NULL, PK
    - orderSalePrice: double, not Null, >$0
    - orderDate: int, format mm/dd/yy, not NULL
    - orderDueDate
    - orderTrackingNumber: int; not NULL
    - relationship:
        - M:M relationship between Products and Orders is implemented with a relationship table with productID and orderID
        - M:1 relationship between Orders and Addresses is implemented with addressID as a FK inside of Orders.

- Parts - Parts from vendor related data
    - partID: int, auto_increment, unique, not NULL, PK
    - partName: char, not NULL
    - partCost: double, not NULL
    - partVendor: char, not NULL
    - partCurrentStock: int, not NULL
    - partLeadTime: double, not NULL
    - relationship:

- ■ M:M relationship between Parts and Products is implemented with a relationship table with partID and productID

- Addresses - Address related data, Customers can have multiple addresses so each Address row in the table has an associated Customer FK.
  - ○ addressID: int, auto_increment, unique, not NULL, PK
  - ○ customerID, int, not NULL FK
  - ○ addressStreet: char, not NULL
  - ○ addressCity: char, not NULL
  - ○ addressState: char, not NULL
  - ○ addressZipCode: int, format XXXXX, max 5
  - ○ Relationship:
    - ■ M:1 relationship between Addresses and Customers implemented as FK in the Addresses table
    - ■ 1:M relationship between Addresses and Orders is implemented with addressID as a FK inside of Orders.

ERD

SCHEMA

Customers

PK	customerID
	customerFirstName
	customerLastName
	customerEmail
	customerPhone

Orders

PK	orderID
FK	addressID
	orderSalePrice
	orderEntryDate
	orderDueDate
	orderTrackingNumber

Orders_Products

FK	orderID
FK	productID
	quantityProducts

Products

PK	productID
	productName
	productSalePrice
	productMfgTimeHours
	productInventory

Addresses

PK	addressID
FK	customerID
	addressStreet
	addressCity
	addressZipCode
	addressState

Parts

PK	partID
	partName
	partCost
	partVendor
	partCurrentStock
	partLeadTimeDays

Parts_Products

FK	productID
FK	partID
	quantityParts

UI SCREENSHOTS

Customer Page –
READ/INSERT/DELETE from Customers Table
READ from Addresses Table

Addresses Page –
UPDATE Customers Table
INSERT into Addresses Table

Orders Page –
SEARCH/READ from Orders Table by Customer Name

Home | Customers | Order Manager | Products Catalog | Parts Inventory Manager

MoPa Corporation

Order Manager

This page shows the current quantity of active Orders by Customer and allows the user to search for a Customer by first or last name and then view or add Orders to that Customer.

[ ] Search By First Name
[ ] Search By Last Name

ORDERS BY CUSTOMER

First Name	Last Name	Email	Active Order Qty.	
Billy	Gee	BillyGee99@gmail.com	2	View/Add Orders
Bobby	Lee	BobbyLee98@gmail.com	4	View/Add Orders
customer	1	3fsadf	1	View/Add Orders
David	Copperfield	davidcopperfieldofficial@gmail.com	2	View/Add Orders
Michael	Jackson	MJ@gmail.com	0	View/Add Orders
Rene	Rock	rocky982@gmail.com	1	View/Add Orders

Order Creator Page-
READ/INSERT from Orders Table

Home | Customers | Order Manager | Products Catalog | Parts Inventory Manager

MoPa Corporation

Order Creator

This page allows the user to create a new order for a selected customer whom also has a existing address in the database.

Order History for Bobby Lee

Order ID	Order Sale Price	Entry Date	Due Date	Tracking Number	Shipping Address	
1	350.06	2020-10-15	2021-01-01	345702381	4243 Rosedale Ave. Genesis, Kentucky, 98765	View/Add Order Items
2	299.54	2020-11-01	2021-02-01	85647332	4243 Rosedale Ave. Genesis, Kentucky, 98765	View/Add Order Items
5	55.55	2020-05-10	2022-01-01	999999999	123 Drive Springs, Colorado, 98765	View/Add Order Items
8	12	2020-06-05	2020-07-16	12345999	123 Drive Springs, Colorado, 98765	View/Add Order Items

ADD NEW ORDER

Select Address: [4243 Rosedale Ave. Genesis Kentucky 98765 ▼]
Order Sale Price: [ ]
Order Due Date: [mm / dd / yyyy]
Assign Tracking Number: [ ]
[Add Order]

Order Editor Page –
READ from Orders Table
READ/UPDATE/INSERT/DELETE from Order_Products Table

Products Page –
READ/INSERT/DELETE from Products Table
READ from Parts_Products Table

Product Manager Page –
UPDATE Products Table
READ/INSERT/UPDATE/DELETE from Parts_Products Table

Parts Page –
READ/INSERT/DELETE from Parts Table