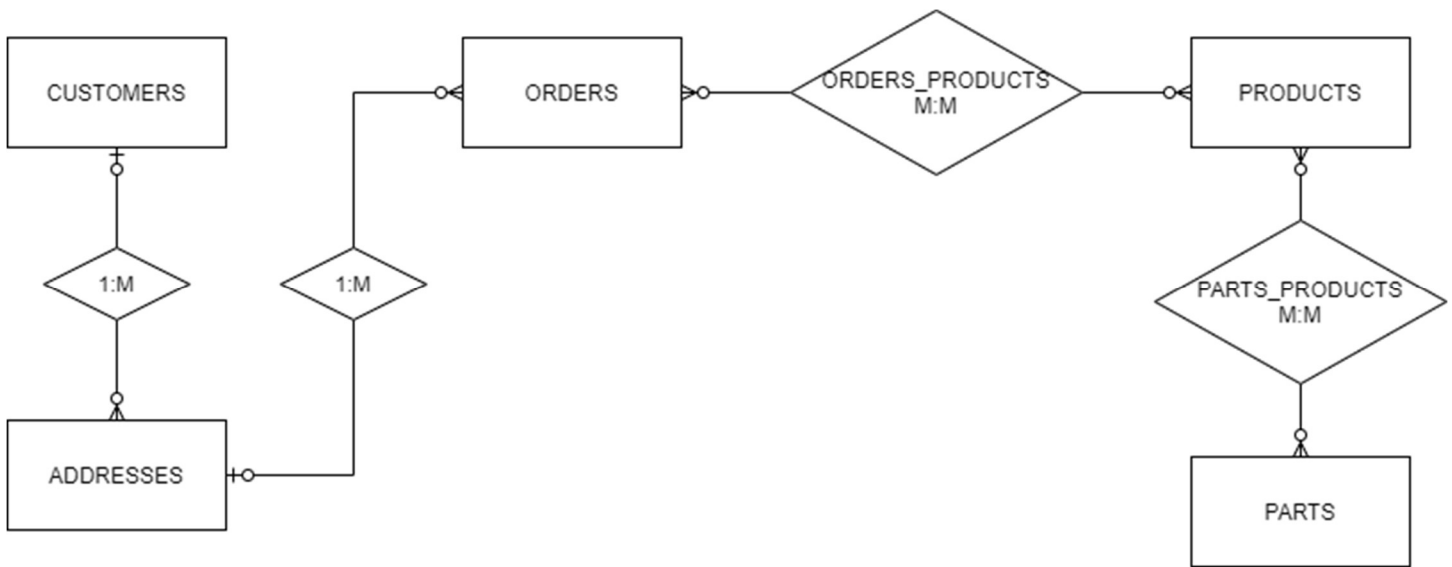


Updated Database Outline (FINAL):

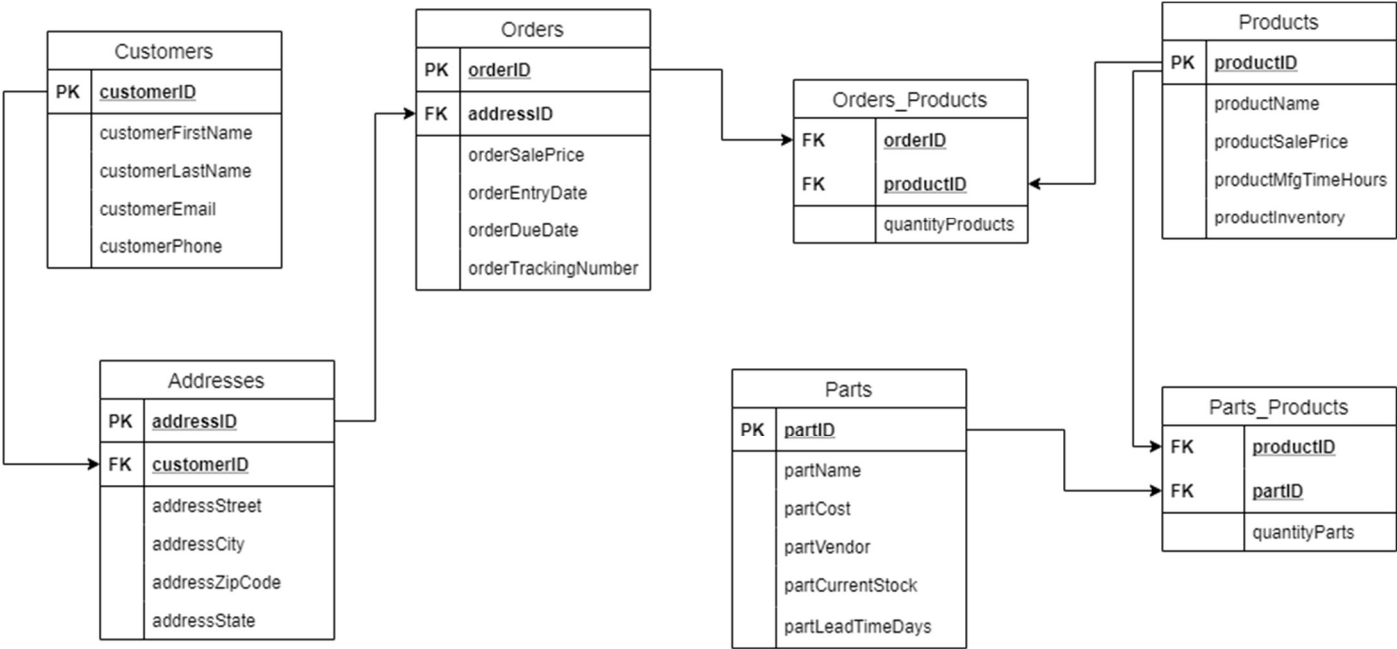
- Customers - Customer related data
 - customerID: int, auto_increment, unique, not NULL, PK
 - customerFirstName: char, not NULL
 - customerLastName: char, not NULL
 - customerEmail: char, not NULL
 - customerPhone: int, not NULL
 - relationship:
 - 1:M relationship between Customers and addresses with 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



UI SCREENSHOTS

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

MoPa Corporation

localhost:12345/customers

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

MoPa Corporation

Customer Info Page

This page shows Customer information. New Customers can be added and deleted and their attribute information can be edited and Addresses can be added to each customer individually.

ADD NEW CUSTOMER

First Name:

Last Name:

Email:

Phone Number:

Add Customer

CUSTOMERS

Cust. ID	First Name	Last Name	Email	Phone	Address		
1	Bobby	Lee	BobbyLee98@gmail.com	8329982943	<div><div>• 4243 Rosedale Ave. Genesis, Kentucky 98765</div><div>• 123 Drive Springs, Colorado 98765</div></div>	Edit Customer/Add Address	Delete Customer
2	Billy	Gee	BillyGee99@gmail.com	8329982943	<div><div>• 17782 Mission St. Killbegan, California 87253</div><div>• b245 copperfield lane Pasadona, CA 98732</div></div>	Edit Customer/Add Address	Delete Customer
3	David	Copperfield	davidcopperfieldofficial@gmail.com	9669872387	• 423 Rocky St. Apt B. Portland, OR 98234	Edit Customer/Add Address	Delete Customer
4	Rene	Rock	rocky982@gmail.com	8888888888	• 99 Smith Road Seattle, WA 45266	Edit Customer/Add Address	Delete Customer
5	customer	1	3fsadf	234154236	• 5777 G Street Springfield, MD 45678	Edit Customer/Add Address	Delete Customer
6	Michael	Jackson	MJ@gmail.com	5552345553		Edit Customer/Add Address	Delete Customer

Addresses Page – UPDATE Customers Table INSERT into Addresses Table

MoPa Corporation

localhost:12345/addresses?customerID=2

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

MoPa Corporation

Customer/Address Editor

This page allows the user to add addresses to the selected Customer and edit that Customer's attributes.

EDIT SELECTED CUSTOMER ATTRIBUTES

First Name: Billy

Last Name: Gee

Email: BillyGee99@gmail.com

Phone Number: 8329982943

Update Customer

ADD ADDRESS TO SELECTED CUSTOMER

Street:

City:

State: Alabama

Zip Code:

Add New Address

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

MoPa Corporation

localhost:12345/orders

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	<button>View/Add Orders</button>
Bobby	Lee	BobbyLee98@gmail.com	4	<button>View/Add Orders</button>
customer	1	3fsadf	1	<button>View/Add Orders</button>
David	Copperfield	davidcopperfieldofficial@gmail.com	2	<button>View/Add Orders</button>
Michael	Jackson	MJ@gmail.com	0	<button>View/Add Orders</button>
Rene	Rock	rocky982@gmail.com	1	<button>View/Add Orders</button>

Order Creator Page-
READ/INSERT from Orders Table

MoPa Corporation

localhost:12345/order_creator?customerID=1

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	<button>View/Add Order Items</button>
2	299.34	2020-11-01	2021-02-01	85647332	4243 Rosedale Ave. Genesis, Kentucky, 98765	<button>View/Add Order Items</button>
5	55.55	2020-05-10	2022-01-01	999999999	123 Drive Springs, Colorado, 98765	<button>View/Add Order Items</button>
8	12	2020-06-05	2020-07-16	12345999	123 Drive Springs, Colorado, 98765	<button>View/Add Order Items</button>

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

MoPa Corporation

localhost:12345/order_editor?orderId=2

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

MoPa Corporation

Order Editor

This page allows the user to view the selected Order's info and add/delete/update Products to the Order.

Selected Order Info:

Customer: Bobby Lee
Order ID: 2
Entry Date: 2020-11-01
Due Date: 2021-02-01
Total Assigned Price: \$299.54
Tracking Number: \$5647332
Shipping Address: 4243 Rosedale Ave. Genesis, Kentucky, 98765

Order Items:

Product Qty:

Widget x2

Remove Product(s)

Contraption x1

Remove Product(s)

ADD NEW PRODUCT TO ORDER OR UPDATE PRODUCT QTY

Product Name:

Widget

 Qty:

1

Add Product To Order/Update Existing Product Qty

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

MoPa Corporation

localhost:12345/products

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

MoPa Corporation

Product Catalog

On this page the user can view the entire Product catalog and the list of Parts (BOM) that go into making it. It allows the user to add new Products, delete Products, and edit Product attributes and a Product's linked Parts.

ADD NEW PRODUCT FORM

Product Name:

Manufacturing Time (Hours):

Current Inventory:

Target Retail Price:

Add Product

PRODUCT CATALOG

Product ID	Number	Product Name	Manufacturing Time (Hours)	Current Inventory	Target Retail Price	Cost	BOM
1		Widget	20.5	0	300		<div><div>Screw - (x10)</div><div>Bolt - (x20)</div><div>Nut - (x20)</div><div>Motor - (x1)</div></div> <div><div>Update Product/Edit BOM</div><div>Delete Product</div></div>
2		Gadget	12	10	350		<div><div>Screw - (x2)</div><div>Bolt - (x5)</div><div>Nut - (x5)</div><div>Small Box - (x1)</div><div>Manifold - (x2)</div></div> <div><div>Update Product/Edit BOM</div><div>Delete Product</div></div>
3		Thingamabob	8	8	100		<div><div>Bearing - (x4)</div><div>Gear - (x1)</div><div>Motor - (x1)</div></div> <div><div>Update Product/Edit BOM</div><div>Delete Product</div></div>
4		Gizmo	18.7	2	200		<div><div>Bolt - (x12)</div><div>Nut - (x12)</div><div>Gear - (x4)</div><div>Motor - (x4)</div><div>Thingamabob - (x7)</div></div> <div><div>Update Product/Edit BOM</div><div>Delete Product</div></div>

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

MoPa Corporation

localhost:12345/product_manager?productID=3

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

MoPa Corporation

Product Manager

This page will allow the editing of a Product's attributes and allows for the editing of the Product's BOM.

PRODUCT ATTRIBUTES

Product ID: 3

Product Name: Thingamabob

Manufacturing Time (Hours): 8

Current Inventory: 8

Target Retail Price: 100

Update Product Attributes

PRODUCT BOM

Part Name Qty.

Bearing x4 Remove Part(s)

Gear x1 Remove Part(s)

Motor x1 Remove Part(s)

ADD NEW PART TO BOM OR UPDATE BOM PART QTY

Part Name: Screw Qty: 1

Add Part To BOM/Update Existing Part Qty

Parts Page –
READ/INSERT/DELETE from Parts Table

MoPa Corporation

localhost:12345/parts

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

MoPa Corporation

Part Management

On this page the user can view all Parts in the database, add a new Part, and delete Parts.

ADD NEW PART FORM

Part Name:

Part Cost:

Part Vendor:

Part Current Stock:

Part Lead Time (Days):

Add Part

CURRENT ACTIVE PART LIST AND INVENTORY

Part ID #	Name	Cost	Vendor	Inventory	Lead Time (Days)	
1	Screw	0.05	Fastenal	500	7	Delete Part
2	Bolt	0.1	Fastenal	250	7	Delete Part
3	Nut	0.07	McMaster-Carr	513	3	Delete Part
4	Small Box	1.21	Box Mfg Company	25	14	Delete Part
5	Large Box	2.75	Box Mfg Company	15	14	Delete Part
6	Bearing	5	McMaster-Carr	100	31	Delete Part
7	Manifold	55	Sheet Metal Inc.	10	21	Delete Part
8	Gear	5	Gearco Ltd.	50	9	Delete Part
9	Motor	110	Westinghouse	5	14	Delete Part
10	Lightbulb	2	Light Co.	340	10	Delete Part
11	Chassis	200	Metalworks	20	60	Delete Part
12	New Part	0.6	New Part Vendor	0	2	Delete Part