DBMS PROJECT:

ONLINE SHOES MANAGEMENT SYSTEM

RA221126050004
ARPAN BOAS SURIN
2ND YEAR CSE-AIML A

CONTENTS

PROBLEM STATEMENT

Design an online shoe management system that efficiently handles :
- Shoe Sales
- Customer orders
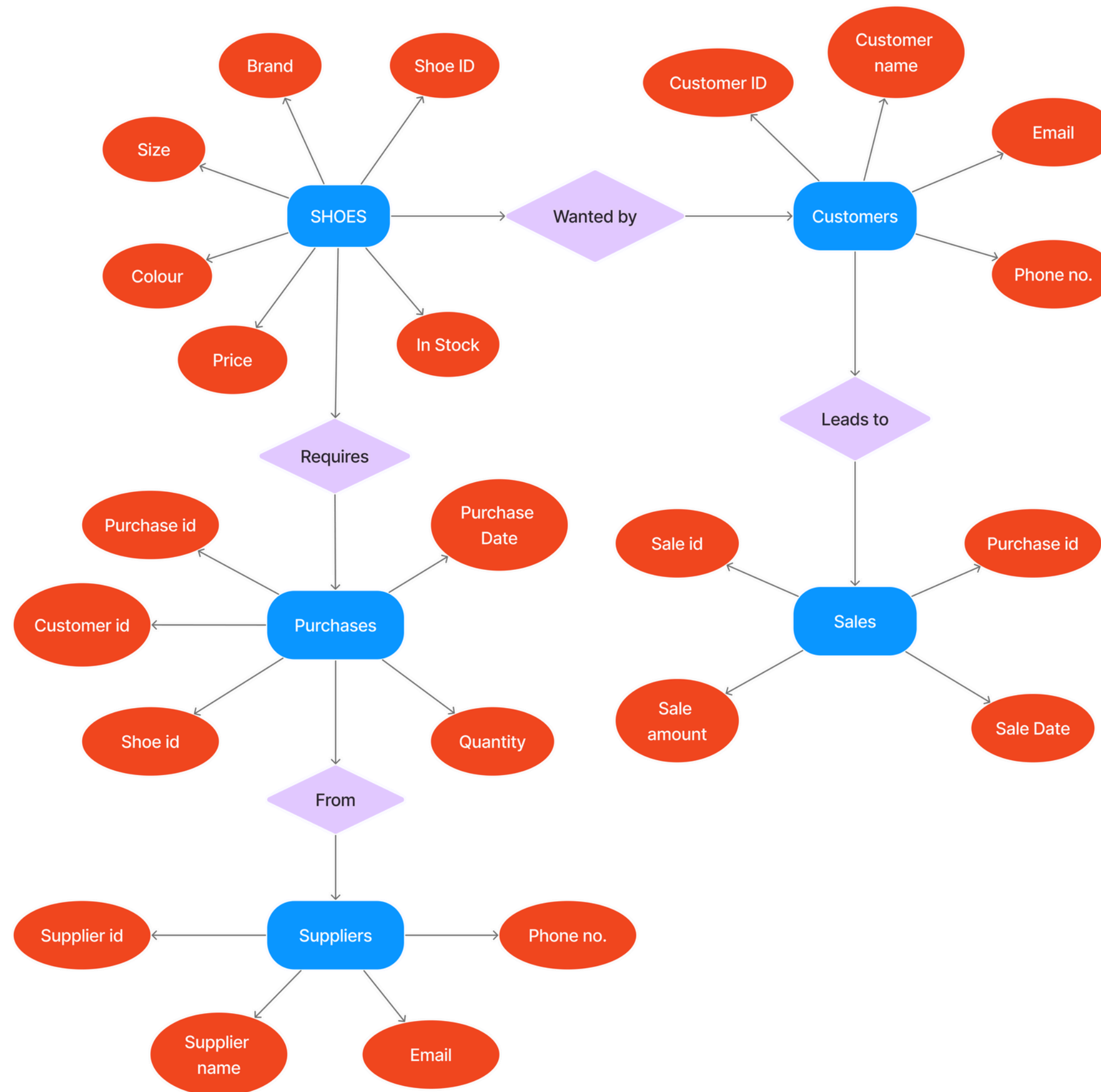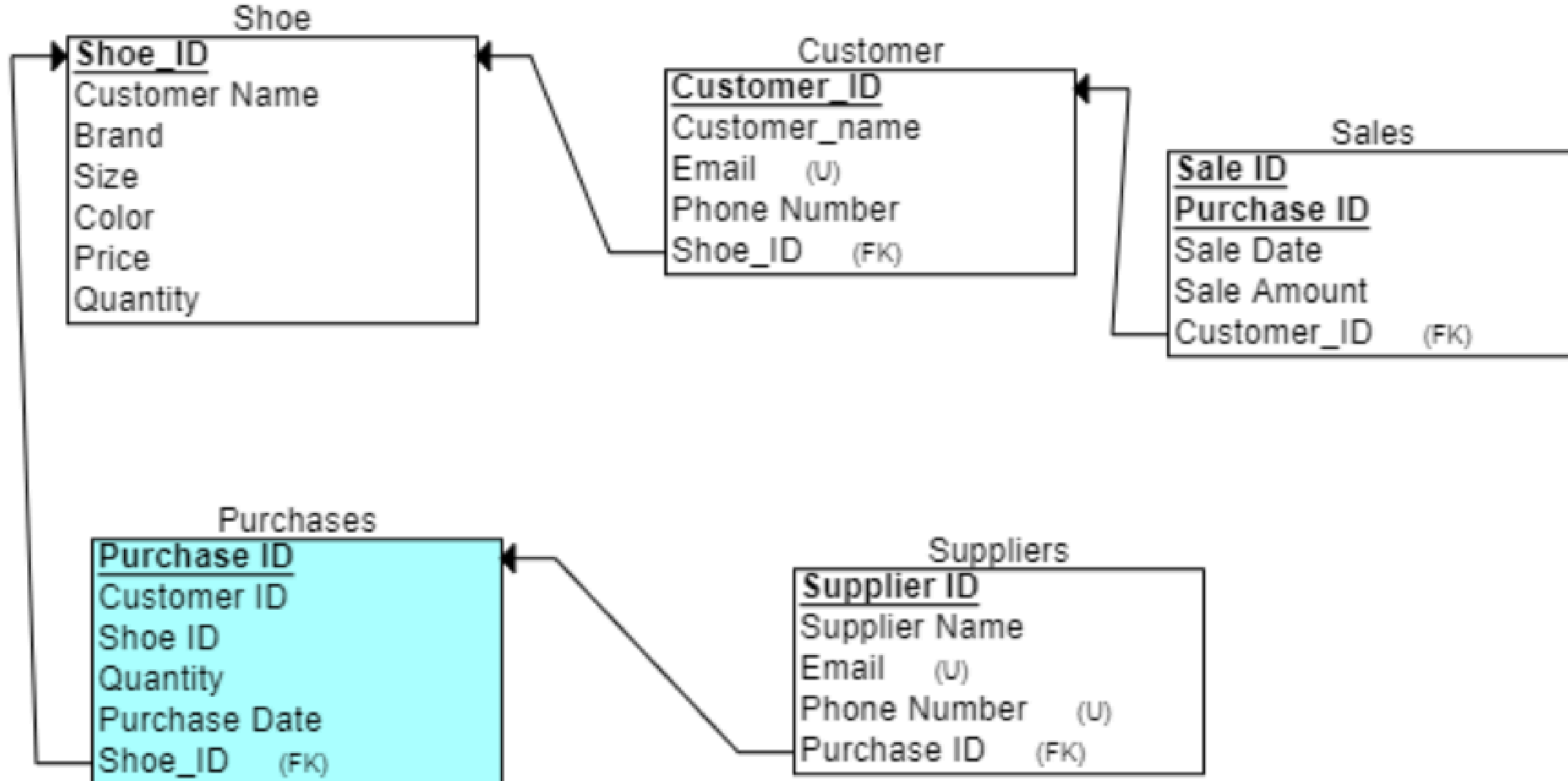- Purchases details
- Supplier con

CONTINUATION

- It Ensures seamless user experience and optimal operational efficiency for both customers and administrators.

- It Optimizes inventory management, enhances customer experience and drives business growth for retailers

Shoe

Shoe_ID
Customer Name
Brand
Size
Color
Price
Quantity

Customer

Customer_ID
Customer_name
Email   (U)
Phone Number
Shoe_ID   (FK)

Sales

Sale ID
Purchase ID
Sale Date
Sale Amount
Customer_ID   (FK)

Purchases

Purchase ID
Customer ID
Shoe ID
Quantity
Purchase Date
Shoe_ID   (FK)

Suppliers

Supplier ID
Supplier Name
Email   (U)
Phone Number   (U)
Purchase ID   (FK)

QUERY EXECUTION

```json
{
    supplier_id: '9',
    supplier_name: 'Footwear Enterprises',
    email: 'sales@footforwardent.com',
    phone_number: '9876543210'
}
```

```json
{
    sale_id: '3200',
    purchase_id: '1001',
    sale_date: '2024-02-05',
    sale_amount: '20000'
}
{
    sale_id: '3100',
    purchase_id: '1002',
    sale_date: '2024-04-01',
    sale_amount: '15000'
}
```

```
{
    purchase_id: '1006',
    customer_id: '6',
    shoe_id: '706',
    quantity: '3',
    purchase_date: '2024-04-09'
}
{
    sale_id: '3205',
    purchase_id: '1005',
    sale_date: '2024-02-21',
    sale_amount: '14000'
}
{
    sale_id: '3206',
    purchase_id: '1006',
    sale_date: '2024-04-01',
    sale_amount: '20000'
}
```

```
mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| alphaware          |
| information_schema |
| mysql              |
| performance_schema |
| shoe_shop          |
| sys                |
+--------------------+
6 rows in set (0.12 sec)
```

```
mysql> use shoe_shop;
Database changed
mysql> show tables;
+-----------------------+
| Tables_in_shoe_shop   |
+-----------------------+
| admin                 |
| customers             |
| inventory             |
| purchases             |
| sales                 |
| shoes                 |
| suppliers             |
+-----------------------+
7 rows in set (0.07 sec)
```

FRONT-END DESIGN

SHOES MANAGEMENT SYSTEM

TABLES

- 🏠 Home
- 👟 Shoes
- 👤 Customers
- ₹ Sales
- 🛍 Suppliers
- 🤝 Purchases

Legend: Customer Purchases (Bar) · Sales (Line)

Chart categories: Nike, Air Jordans, Adidas, Puma, Woodland
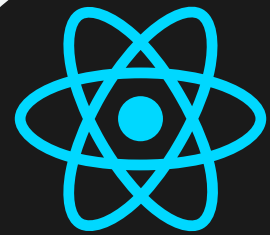
₹ **Purchases**

Total Amount: 46,000

🖥 **Sales**

Total Amount: 50,000

LIBRARIES AND FRAMEWORKS

REACT JS

a JavaScript library used for building user interfaces (UIs) for web applications.It's known for its efficiency, simplicity, and flexibility in creating interactive and dynamic UI components.

EXPRESS JS

A fast, unopinionated, minimalist web framework for Node.js. It provides a robust set of features for building web applications and APIs quickly and easily

MYSQL

An open-source relational database management system (RDBMS) that is widely used for managing structured data. it is one of the most popular database systems in the world, particularly for web applications.

LIST OF MODULES & THEIR FUNCTIONALITY

BrowserRouter

The process of managing navigation within the application by rendering different components based on the URL. React Router is a popular library used for routing in React applications

UseState()

a hook used to add state to functional components. Before the introduction of hooks in React 16.8, functional components were stateless and didn't have the ability to manage their own state.With the useState() hook, functional components can now manage state without needing to convert them into class components.

Axios

Axios provides a simple and intuitive API for performing various HTTP operations, such as GET, POST, PUT, DELETE, etc. It supports promises, allowing you to handle asynchronous operations using async/await or promise chaining.

```javascript
import mysql from 'mysql2'

const con = mysql.createConnection({
    host: "localhost",
    user: "root",
    password: "Database_Systems_23",
    database: "shoe_shop"
})

con.connect(function(err) {
    if(err) {
        console.log("Connection error")
    } else {
        console.log("Test Connection Successful: Database Connected Successfully")
    }
})

export default con;
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
[nodemon] starting `node index.js`
Server is running
Test Connection Successful: Database Connected Successfully
```

```
PROBLEMS    OUTPUT    DEBUG CONSOLE    TERMINAL    PORTS

[nodemon] starting `node index.js`
Server is running
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