



UNIVERSITY OF
PORTSMOUTH

COURSEWORK 2

MODULE TITLE- DATA MANAGEMENT

MODULE CODE- M33149

MODULE COORDINATOR- Dr. Olumuyiwa Matthew

**TOPIC- DESIGN AND DEVELOPMENT OF DATABASE FOR FM CLOTHING STORE
USING MongoDB**

DATE OF SUBMISSION- 22nd January, 2025

GROUP MEMBERS-

STUDENT ID
UP2280648
UP2298397
UP2299529

Table of Contents

TASK-1.....	3
1. Queries to Create Collections in the Database (Total Collections-22).....	4
2. Queries to Insert Data into the Created Collections.....	5
3. Queries to View Inserted Data into the Collections.....	16
TASK-2.....	52
1. Product Stock and Availability Across Branches.....	53
2. Delivery Order History with Payment and Logistics Details.....	55
3. Product Purchasing Records with Customer and Payment Insights.....	57
4. Category-Wise Product Details Including Suppliers and Manufacturing Information.....	59
5. Branch-Wise Total Sales for September and October 2024.....	63
6. Business Applications of the Above 5 Queries.....	65
TASK-3.....	66
Reflective Report.....	66
References.....	66

TASK-1

1. Queries to Create Collections in the Database (Total Collections-22)

```

test> use fm_clothing_store_mongo_1
switched to db fm_clothing_store_mongo_1
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1> db.createCollection("Branch");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Employees");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Manager");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Product");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Customer");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Orders");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Product_Stock");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Delivery");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Order_Reviews");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Supplier_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Supplier_Contact_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Manufacturing_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
fm_clothing_store_mongo_1> db.createCollection("Delivery_Person_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
db.createCollection("Delivery_Company_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>
db.createCollection("Delivery_Payment_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
db.createCollection("Product_Brands");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
db.createCollection("Order_Feedback");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
db.createCollection("Branch_Establishment");
{ ok: 1 }
fm_clothing_store_mongo_1>
db.createCollection("Payment_Information");
{ ok: 1 }
fm_clothing_store_mongo_1>
db.createCollection("Branch_Location");
{ ok: 1 }
fm_clothing_store_mongo_1>
db.createCollection("Branch_Contact");
{ ok: 1 }
fm_clothing_store_mongo_1>

fm_clothing_store_mongo_1>
db.createCollection("Branch_Phone");
{ ok: 1 }
fm_clothing_store_mongo_1> █

```

2. Queries to Insert Data into the Created Collections

2.1 Query to Insert Data into the ‘Branch’ Collection

```
fm_clothing_store_mongo_1> db.Branch.insertMany([
...   {
...     Branch_ID: '001',
...     Branch_Name: 'FM Waterlooville Clothing Store',
...     City: 'Waterlooville',
...     Address: '15 Red Cross Road, Waterlooville, W01 2SP'
...   },
...   {
...     Branch_ID: '002',
...     Branch_Name: 'FM Fareham Clothing Store',
...     City: 'Fareham',
...     Address: '12 Buckingham Street, Fareham, PO2 3ST'
...   },
...   {
...     Branch_ID: '003',
...     Branch_Name: 'FM Gosport Clothing Store',
...     City: 'Gosport',
...     Address: 'Lake View Street, Gosport, PO3 2FG'
...   },
...   {
...     Branch_ID: '004',
...     Branch_Name: 'FM Havant Clothing Store',
...     City: 'Havant',
...     Address: '4 Harleys Street, Havant, HP1 2FP'
...   },
...   {
...     Branch_ID: '005',
...     Branch_Name: 'FM Chichester Clothing Store',
...     City: 'Chichester',
...     Address: 'Harrow Road, Chichester, CH2 4GK'
...   }
... ]);
```

2.2 Query to Insert Data into the 'Employees' Collection

```
fm_clothing_store_mongo_1> db.Employees.insertMany([
...   {
...     Employee_ID: '1001',
...     First_Name: 'Michael',
...     Last_Name: 'Holding',
...     Designation: 'Salesman',
...     Salary_GBP: 2000,
...     Date_Join: '2023-01-01',
...     Shift: 'Morning',
...     Branch_ID: '001'
...   },
...   {
...     Employee_ID: '1002',
...     First_Name: 'Lara',
...     Last_Name: 'Todes',
...     Designation: 'Salesman',
...     Salary_GBP: 2000,
...     Date_Join: '2023-01-09',
...     Shift: 'Evening',
...     Branch_ID: '001'
...   },
...   {
...     Employee_ID: '1003',
...     First_Name: 'Freddie',
...     Last_Name: 'Mercury',
...     Designation: 'Manager',
...     Salary_GBP: 5000,
...     Date_Join: '2023-02-01',
...     Shift: 'Hybrid',
...     Branch_ID: '002'
...   },
...   {
...     Employee_ID: '1004',
...     First_Name: 'Alfred',
...     Last_Name: 'Tyson',
...     Designation: 'Manager',
...     Salary_GBP: 5000,
...     Date_Join: '2023-02-10',
...     Shift: 'Hybrid',
...     Branch_ID: '001'
...   },
...   {
...     Employee_ID: '1005',
...     First_Name: 'Brooke',
...     Last_Name: 'Johnson',
...     Designation: 'Cashier',
...     Salary_GBP: 3000,
...     Date_Join: '2023-02-25',
...     Shift: 'Morning',
...     Branch_ID: '003'
...   },
...   {
...     Employee_ID: '1006',
...     First_Name: 'George',
...     Last_Name: 'Bennington',
...     Designation: 'Manager',
...     Salary_GBP: 5000,
...     Date_Join: '2023-03-01',
...     Shift: 'Evening',
...     Branch_ID: '005'
...   },
...   {
...     Employee_ID: '1007',
...     First_Name: 'Rohit',
...     Last_Name: 'Sharma',
...     Designation: 'Manager',
...     Salary_GBP: 5000,
...     Date_Join: '2023-04-04',
...     Shift: 'Hybrid',
...     Branch_ID: '003'
...   },
...   {
...     Employee_ID: '1008',
...     First_Name: 'Kiran',
...     Last_Name: 'Shree',
...     Designation: 'Manager',
...     Salary_GBP: 5000,
...     Date_Join: '2023-05-15',
...     Shift: 'Hybrid',
...     Branch_ID: '004'
...   },
...   {
...     Employee_ID: '1009',
...     First_Name: 'John',
...     Last_Name: 'Torod',
...     Designation: 'Salesman',
...     Salary_GBP: 2000,
...     Date_Join: '2023-05-20',
...     Shift: 'Night',
...     Branch_ID: '001'
...   }
... ]);
```

2.3 Query to Insert Data into the ‘Manager’ Collection

```
fm_clothing_store_mongo_1> db.Manager.insertMany([
...   {
...     "Manager_ID": "01",
...     "Employee_ID": "1004",
...     "Branch_ID": "001",
...     "employee_details": [
...       {
...         "Employee_ID": "1004",
...         "First_Name": "Alfred",
...         "Last_Name": "Tyson",
...         "Designation": "Manager",
...         "Salary_GBP": 5000,
...         "Date_Join": "2023-02-10",
...         "Shift": "Hybrid",
...         "Branch_ID": "001"
...       }
...     ]
...   },
...   {
...     "Manager_ID": "02",
...     "Employee_ID": "1003",
...     "Branch_ID": "002",
...     "employee_details": [
...       {
...         "Employee_ID": "1003",
...         "First_Name": "Freddie",
...         "Last_Name": "Mercury",
...         "Designation": "Manager",
...         "Salary_GBP": 5000,
...         "Date_Join": "2023-02-01",
...         "Shift": "Hybrid",
...         "Branch_ID": "002"
...       }
...     ]
...   },
...   {
...     "Manager_ID": "03",
...     "Employee_ID": "1007",
...     "Branch_ID": "003",
...     "employee_details": [
...       {
...         "Employee_ID": "1007",
...         "First_Name": "Rohit",
...         "Last_Name": "Sharma",
...         "Designation": "Manager",
...         "Salary_GBP": 5000,
...         "Date_Join": "2023-04-04",
...         "Shift": "Hybrid",
...         "Branch_ID": "003"
...       }
...     ]
...   },
...   {
...     "Manager_ID": "04",
...     "Employee_ID": "1008",
...     "Branch_ID": "004",
...     "employee_details": [
...       {
...         "Employee_ID": "1008",
...         "First_Name": "Kiran",
...         "Last_Name": "Shree",
...         "Designation": "Manager",
...         "Salary_GBP": 5000,
...         "Date_Join": "2023-05-15",
...         "Shift": "Hybrid",
...         "Branch_ID": "004"
...       }
...     ]
...   },
...   {
...     "Manager_ID": "05",
...     "Employee_ID": "1006",
...     "Branch_ID": "005",
...     "employee_details": [
...       {
...         "Employee_ID": "1006",
...         "First_Name": "George",
...         "Last_Name": "Bennington",
...         "Designation": "Manager",
...         "Salary_GBP": 5000,
...         "Date_Join": "2023-03-01",
...         "Shift": "Evening",
...         "Branch_ID": "005"
...       }
...     ]
...   }
... ]);
```

2.4.1 Query to Insert Data into the 'Product' Collection (1-20)

```
fm_clothing_store_mongo_1> db.Product.insertMany([
... { Product_ID: 'P001', Product_Description: 'Yellow Hoodie', Size: 'Small', Composition: '100% Woolen', Price: 20.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P002', Product_Description: 'Yellow Hoodie', Size: 'Medium', Composition: '100% Woolen', Price: 20.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P003', Product_Description: 'Black Jeans', Size: 'Large', Composition: 'Denim', Price: 15.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P004', Product_Description: 'Red Crop Top', Size: 'Medium', Composition: '100% Cotton', Price: 12.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
... { Product_ID: 'P005', Product_Description: 'Blue Shirt Dress', Size: 'Large', Composition: '70% Cotton, 30% Polyester', Price: 11.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
... { Product_ID: 'P006', Product_Description: 'Fifa Ball', Size: 'Free Size', Composition: 'Synthetic Leather', Price: 100.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P007', Product_Description: 'Cricket Bat', Size: 'Free Size', Composition: 'Wooden', Price: 70.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P008', Product_Description: 'Baby Pants', Size: 'Small', Composition: '100% Cotton', Price: 8.00, Category: { Category_ID: 'BY03', Category_Name: 'Baby' } },
... { Product_ID: 'P009', Product_Description: 'Blue Kids Polo T-Shirt', Size: 'Medium', Composition: '40% Polyester, 60% Cotton', Price: 10.00, Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
... { Product_ID: 'P010', Product_Description: 'Beige Sofa Cover', Size: 'Free Size', Composition: '80% Polyester, 20% Cotton', Price: 30.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P011', Product_Description: 'Nike Sneakers', Size: '7', Composition: 'Air Max Sports Shoe', Price: 80.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P012', Product_Description: 'Face Wash Kit', Size: 'One Size', Composition: '100% Organic and Chemical Free', Price: 20.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P013', Product_Description: 'Gaming Keyboard', Size: 'Standard', Composition: 'Mechanical Keys', Price: 50.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P014', Product_Description: 'Laptop Sleeve', Size: '15-inch', Composition: 'Neoprene', Price: 25.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P015', Product_Description: 'Wireless Mouse', Size: 'One Size', Composition: 'Plastic', Price: 15.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P016', Product_Description: 'Yoga Mat', Size: '6x2 Feet', Composition: 'Foam', Price: 18.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P017', Product_Description: 'Water Bottle', Size: '1 Liter', Composition: 'BPA Free Plastic', Price: 10.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P018', Product_Description: 'Ceramic Mug', Size: '300ml', Composition: 'Ceramic', Price: 8.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P019', Product_Description: 'Graphic T-Shirt', Size: 'Large', Composition: '100% Cotton', Price: 15.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P020', Product_Description: 'Silk Scarf', Size: 'One Size', Composition: '100% Silk', Price: 25.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } }
... ]);
```

2.4.2 Query to Insert Data into the 'Product' Collection (21-40)

```
fm_clothing_store_mongo_1> db.Product.insertMany([
... { Product_ID: 'P021', Product_Description: 'Leather Wallet', Size: 'One Size', Composition: 'Genuine Leather', Price: 40.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P022', Product_Description: 'Kids Puzzle Toy', Size: 'Small', Composition: 'Plastic', Price: 15.00, Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
... { Product_ID: 'P023', Product_Description: 'Fitness Band', Size: 'Adjustable', Composition: 'Rubber', Price: 45.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P024', Product_Description: 'Portable Fan', Size: 'Compact', Composition: 'Plastic', Price: 20.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P025', Product_Description: 'Wooden Coasters', Size: 'Set of 4', Composition: 'Wood', Price: 15.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P026', Product_Description: 'Running Shoes', Size: '10', Composition: 'Mesh Fabric', Price: 60.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P027', Product_Description: 'Laptop Bag', Size: '14-inch', Composition: 'Leather', Price: 55.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P028', Product_Description: 'Bluetooth Speaker', Size: 'Compact', Composition: 'Plastic', Price: 40.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P029', Product_Description: 'Scented Candle', Size: '300g', Composition: 'Wax', Price: 12.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P030', Product_Description: 'Electric Kettle', Size: '1.5 Liter', Composition: 'Stainless Steel', Price: 35.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P031', Product_Description: 'Sun Glasses', Size: 'One Size', Composition: 'Plastic and Glass', Price: 25.00, Category: { Category_ID: 'WN01', Category_Name: 'Women' } },
... { Product_ID: 'P032', Product_Description: 'Beach Shorts', Size: 'Large', Composition: 'Polyester', Price: 20.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P033', Product_Description: 'Winter Gloves', Size: 'Medium', Composition: 'Wool', Price: 15.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
... { Product_ID: 'P034', Product_Description: 'Cotton Bathrobe', Size: 'Free Size', Composition: 'Cotton', Price: 50.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P035', Product_Description: 'Hand Blender', Size: 'Compact', Composition: 'Plastic', Price: 45.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P036', Product_Description: 'Analog Watch', Size: 'One Size', Composition: 'Leather Strap', Price: 100.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P037', Product_Description: 'Digital Alarm Clock', Size: 'Compact', Composition: 'Plastic', Price: 30.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P038', Product_Description: 'Sports Cap', Size: 'Adjustable', Composition: 'Cotton', Price: 15.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P039', Product_Description: 'Leather Belt', Size: '34', Composition: 'Leather', Price: 20.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P040', Product_Description: 'Cordless Vacuum Cleaner', Size: 'Compact', Composition: 'Plastic', Price: 150.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } }
... ]);
```

2.4.3 Query to Insert Data into the 'Product' Collections (41-60)

```
fm_clothing_store_mongo_1> db.Product.insertMany([
... { Product_ID: 'P041', Product_Description: 'Cotton Socks', Size: 'One Size', Composition: 'Cotton', Price: 10.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P042', Product_Description: 'Leather Jacket', Size: 'Medium', Composition: 'Genuine Leather', Price: 120.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P043', Product_Description: 'Bluetooth Headphones', Size: 'One Size', Composition: 'Plastic and Metal', Price: 80.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P044', Product_Description: 'Hair Dryer', Size: 'Compact', Composition: 'Plastic', Price: 60.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P045', Product_Description: 'Nail Polish Set', Size: 'Set of 5', Composition: 'Various', Price: 20.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P046', Product_Description: 'Skin Care Kit', Size: 'One Size', Composition: 'Organic', Price: 40.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P047', Product_Description: 'Makeup Brushes', Size: 'Set of 10', Composition: 'Synthetic Fibers', Price: 25.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P048', Product_Description: 'Bath Towel', Size: 'Large', Composition: 'Cotton', Price: 12.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P049', Product_Description: 'Running Shorts', Size: 'Medium', Composition: 'Polyester', Price: 25.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P050', Product_Description: 'Coffee Mug Warmer', Size: 'Compact', Composition: 'Plastic', Price: 25.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P051', Product_Description: 'Electric Toothbrush', Size: 'Compact', Composition: 'Plastic', Price: 35.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P052', Product_Description: 'Children's Story Book', Size: 'One Size', Composition: 'Paper', Price: 15.00, Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
... { Product_ID: 'P053', Product_Description: 'Board Game', Size: 'Medium', Composition: 'Cardboard and Plastic', Price: 30.00, Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
... { Product_ID: 'P054', Product_Description: 'Leather Gloves', Size: 'Medium', Composition: 'Leather', Price: 50.00, Category: { Category_ID: 'WN01', Category_Name: 'Women' } },
... { Product_ID: 'P055', Product_Description: 'Raincoat', Size: 'Large', Composition: 'Polyester', Price: 45.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P056', Product_Description: 'Winter Scarf', Size: 'One Size', Composition: 'Wool', Price: 30.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
... { Product_ID: 'P057', Product_Description: 'Portable Charger', Size: 'Compact', Composition: 'Metal and Plastic', Price: 50.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P058', Product_Description: 'Notebook', Size: 'A5', Composition: 'Paper', Price: 5.00, Category: { Category_ID: 'ST09', Category_Name: 'Stationery' } },
... { Product_ID: 'P059', Product_Description: 'Pen Set', Size: 'Set of 10', Composition: 'Plastic', Price: 8.00, Category: { Category_ID: 'ST09', Category_Name: 'Stationery' } },
... { Product_ID: 'P060', Product_Description: 'Desk Lamp', Size: 'Compact', Composition: 'Plastic and Metal', Price: 35.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } }
... ]);
```

2.4.4 Query to Insert Data into the 'Product' Collections (61-80)

```
fm_clothing_store_mongo_1> db.Product.insertMany([
... { Product_ID: 'P061', Product_Description: 'Wristwatch', Size: 'Adjustable', Composition: 'Metal Strap', Price: 120.00, Category: { Category_ID: 'MNO2', Category_Name: 'Men' } },
... { Product_ID: 'P062', Product_Description: 'Action Figure', Size: 'One Size', Composition: 'Plastic', Price: 20.00, Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
... { Product_ID: 'P063', Product_Description: 'Cookware Set', Size: 'Set of 5', Composition: 'Nonstick', Price: 75.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P064', Product_Description: 'Cutlery Set', Size: 'Set of 24', Composition: 'Stainless Steel', Price: 50.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P065', Product_Description: 'Throw Pillow', Size: '18x18 Inches', Composition: 'Cotton', Price: 20.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P066', Product_Description: 'Wall Art', Size: 'Large', Composition: 'Canvas', Price: 75.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P067', Product_Description: 'Winter Coat', Size: 'Large', Composition: 'Wool Blend', Price: 150.00, Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
... { Product_ID: 'P068', Product_Description: 'LED Flashlight', Size: 'Compact', Composition: 'Plastic and Metal', Price: 20.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P069', Product_Description: 'Baseball Glove', Size: 'Large', Composition: 'Leather', Price: 45.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P070', Product_Description: 'Basketball', Size: 'Standard', Composition: 'Rubber', Price: 30.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P071', Product_Description: 'Portable Grill', Size: 'Compact', Composition: 'Stainless Steel', Price: 100.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P072', Product_Description: 'Multi-Tool', Size: 'Compact', Composition: 'Metal', Price: 25.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P073', Product_Description: 'Dumbbell Set', Size: 'Set of 2', Composition: 'Iron', Price: 60.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P074', Product_Description: 'Weight Lifting Belt', Size: 'Large', Composition: 'Leather', Price: 30.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P075', Product_Description: 'Resistance Bands', Size: 'Set of 3', Composition: 'Rubber', Price: 20.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P076', Product_Description: 'Backpack', Size: 'Large', Composition: 'Polyester', Price: 50.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P077', Product_Description: 'Travel Pillow', Size: 'Compact', Composition: 'Memory Foam', Price: 20.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P078', Product_Description: 'Electric Shaver', Size: 'Compact', Composition: 'Plastic and Metal', Price: 60.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P079', Product_Description: 'Hair Straightener', Size: 'Compact', Composition: 'Plastic and Ceramic', Price: 45.00, Category: { Category_ID: 'BT05', Category_Name: 'Beauty' } },
... { Product_ID: 'P080', Product_Description: 'Bike Helmet', Size: 'Medium', Composition: 'Plastic', Price: 40.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } }
... ]);
```

2.4.5 Query to Insert Data into the 'Product' Collections (81-100)

```
fm_clothing_store_mongo_1> db.Product.insertMany([
... { Product_ID: 'P081', Product_Description: 'Electric Scooter', Size: 'Standard', Composition: 'Metal and Plastic', Price: 300.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P082', Product_Description: 'Wireless Charger', Size: 'Compact', Composition: 'Plastic and Metal', Price: 40.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P083', Product_Description: 'Travel Bag', Size: 'Medium', Composition: 'Leather', Price: 80.00, Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
... { Product_ID: 'P084', Product_Description: 'Camping Tent', Size: '4 Person', Composition: 'Polyester', Price: 150.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P085', Product_Description: 'Sleeping Bag', Size: 'Large', Composition: 'Polyester', Price: 100.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P086', Product_Description: 'Waterproof Jacket', Size: 'Large', Composition: 'Polyester', Price: 100.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P087', Product_Description: 'Hiking Boots', Size: '10', Composition: 'Leather', Price: 150.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P088', Product_Description: 'Garden Tools Set', Size: 'Set of 5', Composition: 'Metal', Price: 40.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P089', Product_Description: 'Pet Bed', Size: 'Large', Composition: 'Cotton', Price: 80.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P090', Product_Description: 'Tennis Racket', Size: 'Standard', Composition: 'Metal and Nylon', Price: 60.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P091', Product_Description: 'Golf Clubs Set', Size: 'Standard', Composition: 'Metal', Price: 300.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... {Product_ID: 'P092', Product_Description: 'Gym Bag', Size: 'Large', Composition: 'Polyester', Price: 50.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P093', Product_Description: 'Soccer Shoes', Size: '9', Composition: 'Leather', Price: 90.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P094', Product_Description: 'Football Jersey', Size: 'Large', Composition: 'Polyester', Price: 60.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P095', Product_Description: 'Protein Shaker', Size: '700ml', Composition: 'Plastic', Price: 10.00, Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
... { Product_ID: 'P096', Product_Description: 'Hammock', Size: 'Double', Composition: 'Cotton', Price: 75.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P097', Product_Description: 'Juicer', Size: 'Compact', Composition: 'Plastic and Metal', Price: 50.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P098', Product_Description: 'Sewing Machine', Size: 'Compact', Composition: 'Metal and Plastic', Price: 200.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P099', Product_Description: 'Waffle Maker', Size: 'Compact', Composition: 'Metal', Price: 35.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
... { Product_ID: 'P100', Product_Description: 'Candle Holder', Size: 'Set of 3', Composition: 'Metal', Price: 20.00, Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } }
... ]);
```

2.5 Query to Insert Data into the ‘Customer’ Collection

```
fm_clothing_store_mongo_1> db.Customer.insertMany([
... {
...     Customer_ID: 'C001',
...     First_Name: 'Angelo',
...     Last_Name: 'Thomson',
...     Email: 'at123@gmail.com',
...     Phone: '0123456789',
...     Address: 'Harrow, LO1 2SP',
...     City: 'London',
...     Reg_Date: '2024-09-01'
... },
... {
...     Customer_ID: 'C002',
...     First_Name: 'Gary',
...     Last_Name: 'Mehigan',
...     Email: 'gm321@gmail.com',
...     Phone: '9874561230',
...     Address: 'South Hall, LO2 3AB',
...     City: 'London',
...     Reg_Date: '2024-09-12'
... },
... {
...     Customer_ID: 'C003',
...     First_Name: 'Mike',
...     Last_Name: 'Paul',
...     Email: 'mp123@gmail.com',
...     Phone: '0147852369',
...     Address: '4th Cross, MN1 3AS',
...     City: 'Manchester',
...     Reg_Date: '2024-09-30'
... },
... {
...     Customer_ID: 'C004',
...     First_Name: 'Sara',
...     Last_Name: 'Ali',
...     Email: 'sa123@gmail.com',
...     Phone: '3698520147',
...     Address: 'Upon Thames, LO2 3PG',
...     City: 'London',
...     Reg_Date: '2024-09-30'
... },
... {
...     Customer_ID: 'C005',
...     First_Name: 'Tom',
...     Last_Name: 'Cruise',
...     Email: 'tm325@gmail.com',
...     Phone: '8520147963',
...     Address: 'UOC Headquarter, CM2 5BJ',
...     City: 'Cambridge',
...     Reg_Date: '2024-10-06'
... },
... {
...     Customer_ID: 'C006',
...     First_Name: 'Sania',
...     Last_Name: 'Todes',
...     Email: 'st456@gmail.com',
...     Phone: '0147258369',
...     Address: 'Central Park, LO4 BG',
...     City: 'London',
...     Reg_Date: '2024-10-12'
... },
... {
...     Customer_ID: 'C007',
...     First_Name: 'Myke',
...     Last_Name: 'Bennington',
...     Email: 'mb456@gmail.com',
...     Phone: '4569871230',
...     Address: 'James Road, MN02 4DK',
...     City: 'Manchester',
...     Reg_Date: '2024-10-25'
... },
... {
...     Customer_ID: 'C008',
...     First_Name: 'Farah',
...     Last_Name: 'James',
...     Email: 'fj897@gmail.com',
...     Phone: '0123654789',
...     Address: 'Red Cross, CM1 2LM',
...     City: 'Cambridge',
...     Reg_Date: '2024-10-30'
... },
... {
...     Customer_ID: 'C009',
...     First_Name: 'George',
...     Last_Name: 'Jackson',
...     Email: 'gj758@gmail.com',
...     Phone: '9874563210',
...     Address: '1st Cross Lake View, MN05 7PL',
...     City: 'Manchester',
...     Reg_Date: '2024-10-31'
... },
... {
...     Customer_ID: 'C010',
...     First_Name: 'Shakeel',
...     Last_Name: 'Ali',
...     Email: 'sa123@gmail.com',
...     Phone: '4560123879',
...     Address: 'Guildhall Hall, PO1 2SP',
...     City: 'Portsmouth',
...     Reg_Date: '2024-10-31'
... }
... ]);
```

2.6 Query to Insert Data into the ‘Orders’ Collection

```
fm_clothing_store_mongo_1> db.Orders.insertMany([
... {
  Order_ID: 'OD001',
  Order_Date: '2024-09-01',
  Total_Amount: 25.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C001',
  Branch_ID: '001',
  Order_Details: [
    { Product_ID: 'P002', Quantity: 1, Price_Per_Item: 20.00 },
    { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15.00 }
  ]
},
{
  Order_ID: 'OD002',
  Order_Date: '2024-09-05',
  Total_Amount: 20.00,
  Payment_Method: 'Cash',
  Delivery_Method: 'Store Pickup',
  Customer_ID: 'C001',
  Branch_ID: '002',
  Order_Details: [
    { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20.00 }
  ]
},
{
  Order_ID: 'OD003',
  Order_Date: '2024-09-12',
  Total_Amount: 35.00,
  Payment_Method: 'Cash',
  Delivery_Method: 'Store Pickup',
  Customer_ID: 'C002',
  Branch_ID: '005',
  Order_Details: [
    { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20.00 },
    { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15.00 }
  ]
},
{
  Order_ID: 'OD004',
  Order_Date: '2024-09-30',
  Total_Amount: 40.00,
  Payment_Method: 'Cash',
  Delivery_Method: 'Store Pickup',
  Customer_ID: 'C003',
  Branch_ID: '002',
  Order_Details: [
    { Product_ID: 'P002', Quantity: 2, Price_Per_Item: 20.00 }
  ]
},
{
  Order_ID: 'OD005',
  Order_Date: '2024-09-30',
  Total_Amount: 18.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C004',
  Branch_ID: '004',
  Order_Details: [
    { Product_ID: 'P008', Quantity: 1, Price_Per_Item: 8.00 },
    { Product_ID: 'P009', Quantity: 1, Price_Per_Item: 10.00 }
  ]
},
{
  Order_ID: 'OD006',
  Order_Date: '2024-10-06',
  Total_Amount: 170.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C005',
  Branch_ID: '005',
  Order_Details: [
    { Product_ID: 'P006', Quantity: 1, Price_Per_Item: 100.00 },
    { Product_ID: 'P007', Quantity: 1, Price_Per_Item: 70.00 }
  ]
},
{
  Order_ID: 'OD007',
  Order_Date: '2024-10-12',
  Total_Amount: 35.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C006',
  Branch_ID: '001',
  Order_Details: [
    { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20.00 },
    { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15.00 }
  ]
},
{
  Order_ID: 'OD008',
  Order_Date: '2024-10-25',
  Total_Amount: 10.00,
  Payment_Method: 'Cash',
  Delivery_Method: 'Store Pickup',
  Customer_ID: 'C007',
  Branch_ID: '001',
  Order_Details: [
    { Product_ID: 'P009', Quantity: 1, Price_Per_Item: 10.00 }
  ]
},
{
  Order_ID: 'OD009',
  Order_Date: '2024-10-29',
  Total_Amount: 40.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C001',
  Branch_ID: '004',
  Order_Details: [
    { Product_ID: 'P002', Quantity: 2, Price_Per_Item: 20.00 }
  ]
},
{
  Order_ID: 'OD010',
  Order_Date: '2024-10-30',
  Total_Amount: 30.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C008',
  Branch_ID: '003',
  Order_Details: [
    { Product_ID: 'P003', Quantity: 2, Price_Per_Item: 15.00 }
  ]
},
{
  Order_ID: 'OD011',
  Order_Date: '2024-10-31',
  Total_Amount: 20.00,
  Payment_Method: 'Online',
  Delivery_Method: 'Home Delivery',
  Customer_ID: 'C009',
  Branch_ID: '001',
  Order_Details: [
    { Product_ID: 'P009', Quantity: 2, Price_Per_Item: 10.00 }
  ]
},
{
  Order_ID: 'OD012',
  Order_Date: '2024-10-31',
  Total_Amount: 30.00,
  Payment_Method: 'Cash',
  Delivery_Method: 'Store Pickup',
  Customer_ID: 'C010',
  Branch_ID: '002',
  Order_Details: [
    { Product_ID: 'P010', Quantity: 1, Price_Per_Item: 30.00 }
  ]
]);
});
```

2.7 Query to Insert Data into the ‘Product_Stock’ Collection

```
fm_clothing_store_mongo_1> db.Product_Stock.insertMany([
...   { Product_ID: 'P001', Branch_ID: '001', Stock_Quantity: 50 },
...   { Product_ID: 'P001', Branch_ID: '002', Stock_Quantity: 30 },
...   { Product_ID: 'P001', Branch_ID: '003', Stock_Quantity: 10 },
...   { Product_ID: 'P001', Branch_ID: '004', Stock_Quantity: 70 },
...   { Product_ID: 'P001', Branch_ID: '005', Stock_Quantity: 10 },
...   { Product_ID: 'P002', Branch_ID: '001', Stock_Quantity: 30 },
...   { Product_ID: 'P002', Branch_ID: '002', Stock_Quantity: 40 },
...   { Product_ID: 'P002', Branch_ID: '003', Stock_Quantity: 10 },
...   { Product_ID: 'P002', Branch_ID: '004', Stock_Quantity: 20 },
...   { Product_ID: 'P002', Branch_ID: '005', Stock_Quantity: 30 },
...   { Product_ID: 'P003', Branch_ID: '001', Stock_Quantity: 15 },
...   { Product_ID: 'P003', Branch_ID: '002', Stock_Quantity: 32 },
...   { Product_ID: 'P003', Branch_ID: '003', Stock_Quantity: 14 },
...   { Product_ID: 'P003', Branch_ID: '004', Stock_Quantity: 25 },
...   { Product_ID: 'P003', Branch_ID: '005', Stock_Quantity: 32 },
...   { Product_ID: 'P004', Branch_ID: '001', Stock_Quantity: 40 },
...   { Product_ID: 'P004', Branch_ID: '002', Stock_Quantity: 12 },
...   { Product_ID: 'P004', Branch_ID: '003', Stock_Quantity: 10 },
...   { Product_ID: 'P004', Branch_ID: '004', Stock_Quantity: 32 },
...   { Product_ID: 'P004', Branch_ID: '005', Stock_Quantity: 14 },
...   { Product_ID: 'P005', Branch_ID: '001', Stock_Quantity: 29 },
...   { Product_ID: 'P005', Branch_ID: '002', Stock_Quantity: 21 },
...   { Product_ID: 'P005', Branch_ID: '003', Stock_Quantity: 14 },
...   { Product_ID: 'P005', Branch_ID: '004', Stock_Quantity: 23 },
...   { Product_ID: 'P005', Branch_ID: '005', Stock_Quantity: 25 },
...   { Product_ID: 'P006', Branch_ID: '001', Stock_Quantity: 21 },
...   { Product_ID: 'P006', Branch_ID: '002', Stock_Quantity: 10 },
...   { Product_ID: 'P006', Branch_ID: '003', Stock_Quantity: 5 },
...   { Product_ID: 'P006', Branch_ID: '004', Stock_Quantity: 1 },
...   { Product_ID: 'P006', Branch_ID: '005', Stock_Quantity: 36 },
...   { Product_ID: 'P007', Branch_ID: '001', Stock_Quantity: 45 },
...   { Product_ID: 'P007', Branch_ID: '002', Stock_Quantity: 21 },
...   { Product_ID: 'P007', Branch_ID: '003', Stock_Quantity: 21 },
...   { Product_ID: 'P007', Branch_ID: '004', Stock_Quantity: 10 },
...   { Product_ID: 'P007', Branch_ID: '005', Stock_Quantity: 23 },
...   { Product_ID: 'P008', Branch_ID: '001', Stock_Quantity: 25 },
...   { Product_ID: 'P008', Branch_ID: '002', Stock_Quantity: 24 },
...   { Product_ID: 'P008', Branch_ID: '003', Stock_Quantity: 23 },
...   { Product_ID: 'P008', Branch_ID: '004', Stock_Quantity: 25 },
...   { Product_ID: 'P008', Branch_ID: '005', Stock_Quantity: 10 },
...   { Product_ID: 'P009', Branch_ID: '001', Stock_Quantity: 9 },
...   { Product_ID: 'P009', Branch_ID: '002', Stock_Quantity: 5 },
...   { Product_ID: 'P009', Branch_ID: '003', Stock_Quantity: 42 },
...   { Product_ID: 'P009', Branch_ID: '004', Stock_Quantity: 35 },
...   { Product_ID: 'P009', Branch_ID: '005', Stock_Quantity: 12 },
...   { Product_ID: 'P010', Branch_ID: '001', Stock_Quantity: 14 },
...   { Product_ID: 'P010', Branch_ID: '002', Stock_Quantity: 25 },
...   { Product_ID: 'P010', Branch_ID: '003', Stock_Quantity: 25 },
...   { Product_ID: 'P010', Branch_ID: '004', Stock_Quantity: 24 },
...   { Product_ID: 'P010', Branch_ID: '005', Stock_Quantity: 23 },
...   { Product_ID: 'P011', Branch_ID: '001', Stock_Quantity: 21 },
...   { Product_ID: 'P011', Branch_ID: '002', Stock_Quantity: 29 },
...   { Product_ID: 'P011', Branch_ID: '003', Stock_Quantity: 27 },
...   { Product_ID: 'P011', Branch_ID: '004', Stock_Quantity: 28 },
...   { Product_ID: 'P011', Branch_ID: '005', Stock_Quantity: 24 },
...   { Product_ID: 'P012', Branch_ID: '001', Stock_Quantity: 15 },
...   { Product_ID: 'P012', Branch_ID: '002', Stock_Quantity: 10 },
...   { Product_ID: 'P012', Branch_ID: '003', Stock_Quantity: 15 },
...   { Product_ID: 'P012', Branch_ID: '004', Stock_Quantity: 10 },
...   { Product_ID: 'P012', Branch_ID: '005', Stock_Quantity: 15 },
... ]);
... ]);
```

2.8 Query to Insert Data into the ‘Delivery’ Collection

```
fm_clothing_store_mongo_1> db.Delivery.insertMany([
...   { Delivery_ID: 'DL01', Order_ID: 'OD001', Delivery_Date: '2024-09-03', Delivery_Address: 'Harrow, LO1 2SP', Delivery_Status: 'Delivered', Branch_ID: '001' },
...   { Delivery_ID: 'DL02', Order_ID: 'OD005', Delivery_Date: '2024-10-03', Delivery_Address: 'Upon Thames, LO2 3PG', Delivery_Status: 'Delivered', Branch_ID: '004' },
...   { Delivery_ID: 'DL03', Order_ID: 'OD006', Delivery_Date: '2024-10-08', Delivery_Address: 'UOC Headquarter, CM2 SBJ', Delivery_Status: 'Delivered', Branch_ID: '005' },
...   { Delivery_ID: 'DL04', Order_ID: 'OD007', Delivery_Date: '2024-10-14', Delivery_Address: 'Central Park, LO4 BG', Delivery_Status: 'Delivered', Branch_ID: '001' },
...   { Delivery_ID: 'DL05', Order_ID: 'OD009', Delivery_Date: '2024-10-30', Delivery_Address: 'Harrow, LO1 2SP', Delivery_Status: 'Delivered', Branch_ID: '004' },
...   { Delivery_ID: 'DL06', Order_ID: 'OD010', Delivery_Date: '2024-11-01', Delivery_Address: 'Red Cross, CM1 2LM', Delivery_Status: 'Delivered', Branch_ID: '003' },
...   { Delivery_ID: 'DL07', Order_ID: 'OD011', Delivery_Date: '2024-11-02', Delivery_Address: '1st Cross Lake View, MN05 7PL', Delivery_Status: 'Delivered', Branch_ID: '001' }
... ]);
```

2.9 Query to Insert Data into the ‘Delivery_Person_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Person_Information.insertMany([
...   { Delivery_ID: 'DL01', Delivery_Person_Name: 'John Doe', Delivery_Person_Contact_NO: '123-456-7890' },
...   { Delivery_ID: 'DL02', Delivery_Person_Name: 'Jane Smith', Delivery_Person_Contact_NO: '234-567-8901' },
...   { Delivery_ID: 'DL03', Delivery_Person_Name: 'Alice Brown', Delivery_Person_Contact_NO: '345-678-9012' },
...   { Delivery_ID: 'DL04', Delivery_Person_Name: 'Bob White', Delivery_Person_Contact_NO: '456-789-0123' },
...   { Delivery_ID: 'DL05', Delivery_Person_Name: 'Charlie Green', Delivery_Person_Contact_NO: '567-890-1234' },
...   { Delivery_ID: 'DL06', Delivery_Person_Name: 'David Black', Delivery_Person_Contact_NO: '678-901-2345' },
...   { Delivery_ID: 'DL07', Delivery_Person_Name: 'Eve Blue', Delivery_Person_Contact_NO: '789-012-3456' }
... ]);
```

2.10 Query to Insert Data into the ‘Delivery_Company_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Company_Information.insertMany([
...   { Delivery_ID: 'DL01', Delivery_Company: 'FastTrack Logistics', Delivery_Cost: 10 },
...   { Delivery_ID: 'DL02', Delivery_Company: 'QuickShip Couriers', Delivery_Cost: 8 },
...   { Delivery_ID: 'DL03', Delivery_Company: 'ShipFast Delivery', Delivery_Cost: 12 },
...   { Delivery_ID: 'DL04', Delivery_Company: 'FastTrack Logistics', Delivery_Cost: 10 },
...   { Delivery_ID: 'DL05', Delivery_Company: 'QuickShip Couriers', Delivery_Cost: 8 },
...   { Delivery_ID: 'DL06', Delivery_Company: 'ShipFast Delivery', Delivery_Cost: 12 },
...   { Delivery_ID: 'DL07', Delivery_Company: 'FastTrack Logistics', Delivery_Cost: 10 }
... ]);
```

2.11 Query to Insert Data into the ‘Delivery_Payment_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Payment_Information.insertMany([
...   { Delivery_ID: 'DL01', Delivery_Payment: 'Paid' },
...   { Delivery_ID: 'DL02', Delivery_Payment: 'Pending' },
...   { Delivery_ID: 'DL03', Delivery_Payment: 'Paid' },
...   { Delivery_ID: 'DL04', Delivery_Payment: 'Paid' },
...   { Delivery_ID: 'DL05', Delivery_Payment: 'Paid' },
...   { Delivery_ID: 'DL06', Delivery_Payment: 'Pending' },
...   { Delivery_ID: 'DL07', Delivery_Payment: 'Paid' }
... ]);
```

2.12 Query to Insert Data into the ‘Payment_Information’ Collection

```
fm_clothing_store_mongo_1> db.Payment_Information.insertMany([
...   { Order_ID: 'OD001', Transaction_ID: 'TX100001' },
...   { Order_ID: 'OD002', Transaction_ID: 'TX100002' },
...   { Order_ID: 'OD003', Transaction_ID: 'TX100003' },
...   { Order_ID: 'OD004', Transaction_ID: 'TX100004' },
...   { Order_ID: 'OD005', Transaction_ID: 'TX100005' },
...   { Order_ID: 'OD006', Transaction_ID: 'TX100006' },
...   { Order_ID: 'OD007', Transaction_ID: 'TX100007' },
...   { Order_ID: 'OD008', Transaction_ID: 'TX100008' },
...   { Order_ID: 'OD009', Transaction_ID: 'TX100009' },
...   { Order_ID: 'OD010', Transaction_ID: 'TX100010' },
...   { Order_ID: 'OD011', Transaction_ID: 'TX100011' },
...   { Order_ID: 'OD012', Transaction_ID: 'TX100012' }
... ]);
```

2.13 Query to Insert Data into the ‘Order_Reviews’ Collection

```
fm_clothing_store_mongo_1> db.Order_Reviews.insertMany([
...   { Order_ID: 'OD001', Order_Rating: 4 },
...   { Order_ID: 'OD002', Order_Rating: 5 },
...   { Order_ID: 'OD003', Order_Rating: 3 },
...   { Order_ID: 'OD004', Order_Rating: 2 },
...   { Order_ID: 'OD005', Order_Rating: 5 },
...   { Order_ID: 'OD006', Order_Rating: 1 },
...   { Order_ID: 'OD007', Order_Rating: 4 },
...   { Order_ID: 'OD008', Order_Rating: 3 },
...   { Order_ID: 'OD009', Order_Rating: 5 },
...   { Order_ID: 'OD010', Order_Rating: 2 },
...   { Order_ID: 'OD011', Order_Rating: 4 },
...   { Order_ID: 'OD012', Order_Rating: 3 }
... ]);
```

2.14 Query to Insert Data into the ‘Order_Feedback’ Collection

```
fm_clothing_store_mongo_1> db.Order_Feedback.insertMany([
...   { Order_ID: 'OD001', Order_Review_Note: 'Good quality, satisfied with the order.' },
...   { Order_ID: 'OD002', Order_Review_Note: 'Excellent service and fast delivery!' },
...   { Order_ID: 'OD003', Order_Review_Note: 'Decent, but there is room for improvement.' },
...   { Order_ID: 'OD004', Order_Review_Note: 'Not happy with the product. Expected better quality.' },
...   { Order_ID: 'OD005', Order_Review_Note: 'Perfect, highly recommend this product!' },
...   { Order_ID: 'OD006', Order_Review_Note: 'Very disappointed. The product was damaged.' },
...   { Order_ID: 'OD007', Order_Review_Note: 'Good, but the delivery was slower than expected.' },
...   { Order_ID: 'OD008', Order_Review_Note: 'Average experience. Could be better.' },
...   { Order_ID: 'OD009', Order_Review_Note: 'Absolutely great, no complaints at all!' },
...   { Order_ID: 'OD010', Order_Review_Note: 'The quality was subpar, I expected more.' },
...   { Order_ID: 'OD011', Order_Review_Note: 'Overall good, but packaging could be improved.' },
...   { Order_ID: 'OD012', Order_Review_Note: 'Satisfactory, but could have been more responsive.' }
... ]);
```

2.15 Query to Insert Data into the ‘Supplier_Information’ Collection

```
fm_clothing_store_mongo_1> db.Supplier_Information.insertMany([
...   { "Supplier_ID": "S001", "Supplier_Name": "Global Fashion Co.", "Product_ID": "P001" },
...   { "Supplier_ID": "S001", "Supplier_Name": "Global Fashion Co.", "Product_ID": "P002" },
...   { "Supplier_ID": "S002", "Supplier_Name": "Urban Trendz", "Product_ID": "P003" },
...   { "Supplier_ID": "S003", "Supplier_Name": "Cotton Soft Ltd.", "Product_ID": "P004" },
...   { "Supplier_ID": "S003", "Supplier_Name": "Cotton Soft Ltd.", "Product_ID": "P005" },
...   { "Supplier_ID": "S004", "Supplier_Name": "SportPro Inc.", "Product_ID": "P006" },
...   { "Supplier_ID": "S004", "Supplier_Name": "SportPro Inc.", "Product_ID": "P007" },
...   { "Supplier_ID": "S005", "Supplier_Name": "BabyCare", "Product_ID": "P008" },
...   { "Supplier_ID": "S006", "Supplier_Name": "Kids Apparel Co.", "Product_ID": "P009" },
...   { "Supplier_ID": "S007", "Supplier_Name": "Home Comforts", "Product_ID": "P010" },
...   { "Supplier_ID": "S008", "Supplier_Name": "Nike Sportswear", "Product_ID": "P011" },
...   { "Supplier_ID": "S009", "Supplier_Name": "Beauty Naturals", "Product_ID": "P012" },
...   { "Supplier_ID": "S001", "Supplier_Name": "Global Fashion Co.", "Product_ID": "P019" },
...   { "Supplier_ID": "S002", "Supplier_Name": "Urban Trendz", "Product_ID": "P021" },
...   { "Supplier_ID": "S003", "Supplier_Name": "Cotton Soft Ltd.", "Product_ID": "P032" },
...   { "Supplier_ID": "S004", "Supplier_Name": "SportPro Inc.", "Product_ID": "P036" },
...   { "Supplier_ID": "S005", "Supplier_Name": "BabyCare", "Product_ID": "P039" },
...   { "Supplier_ID": "S006", "Supplier_Name": "Kids Apparel Co.", "Product_ID": "P041" },
...   { "Supplier_ID": "S007", "Supplier_Name": "Home Comforts", "Product_ID": "P042" },
...   { "Supplier_ID": "S008", "Supplier_Name": "Nike Sportswear", "Product_ID": "P055" },
...   { "Supplier_ID": "S009", "Supplier_Name": "Beauty Naturals", "Product_ID": "P061" },
...   { "Supplier_ID": "S001", "Supplier_Name": "Global Fashion Co.", "Product_ID": "P020" },
...   { "Supplier_ID": "S002", "Supplier_Name": "Urban Trendz", "Product_ID": "P031" },
...   { "Supplier_ID": "S003", "Supplier_Name": "Cotton Soft Ltd.", "Product_ID": "P033" },
...   { "Supplier_ID": "S004", "Supplier_Name": "SportPro Inc.", "Product_ID": "P054" },
...   { "Supplier_ID": "S005", "Supplier_Name": "BabyCare", "Product_ID": "P056" },
...   { "Supplier_ID": "S006", "Supplier_Name": "Kids Apparel Co.", "Product_ID": "P067" }
... ]);
```

2.16 Query to Insert Data into the ‘Manufacturing_Information’ Collection

```
fm_clothing_store_mongo_1> db.Manufacturing_Information.insertMany([
...   { "Manufacturing_ID": "M001", "Product_ID": "P001", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M001", "Product_ID": "P002", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M002", "Product_ID": "P003", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M003", "Product_ID": "P004", "Manufacturing_Location": "Bangladesh" },
...   { "Manufacturing_ID": "M003", "Product_ID": "P005", "Manufacturing_Location": "Bangladesh" },
...   { "Manufacturing_ID": "M004", "Product_ID": "P006", "Manufacturing_Location": "Vietnam" },
...   { "Manufacturing_ID": "M004", "Product_ID": "P007", "Manufacturing_Location": "Vietnam" },
...   { "Manufacturing_ID": "M005", "Product_ID": "P008", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M006", "Product_ID": "P009", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M007", "Product_ID": "P010", "Manufacturing_Location": "Turkey" },
...   { "Manufacturing_ID": "M008", "Product_ID": "P011", "Manufacturing_Location": "USA" },
...   { "Manufacturing_ID": "M009", "Product_ID": "P012", "Manufacturing_Location": "South Korea" },
...   { "Manufacturing_ID": "M010", "Product_ID": "P019", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M011", "Product_ID": "P021", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M012", "Product_ID": "P032", "Manufacturing_Location": "Bangladesh" },
...   { "Manufacturing_ID": "M013", "Product_ID": "P036", "Manufacturing_Location": "Vietnam" },
...   { "Manufacturing_ID": "M014", "Product_ID": "P039", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M015", "Product_ID": "P041", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M016", "Product_ID": "P042", "Manufacturing_Location": "Turkey" },
...   { "Manufacturing_ID": "M017", "Product_ID": "P055", "Manufacturing_Location": "USA" },
...   { "Manufacturing_ID": "M018", "Product_ID": "P061", "Manufacturing_Location": "South Korea" },
...   { "Manufacturing_ID": "M019", "Product_ID": "P020", "Manufacturing_Location": "Bangladesh" },
...   { "Manufacturing_ID": "M020", "Product_ID": "P031", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M021", "Product_ID": "P033", "Manufacturing_Location": "Vietnam" },
...   { "Manufacturing_ID": "M022", "Product_ID": "P054", "Manufacturing_Location": "China" },
...   { "Manufacturing_ID": "M023", "Product_ID": "P056", "Manufacturing_Location": "India" },
...   { "Manufacturing_ID": "M024", "Product_ID": "P067", "Manufacturing_Location": "South Korea" }
... ]);
```

2.17 Query to Insert Data into the ‘Product_Brands’ Collection

```
fm_clothing_store_mongo_1> db.Product_Brands.insertMany([
...   { "Product_ID": "P001", "Brand_Name": "Adidas" },
...   { "Product_ID": "P002", "Brand_Name": "Adidas" },
...   { "Product_ID": "P003", "Brand_Name": "H&M" },
...   { "Product_ID": "P004", "Brand_Name": "Levi's" },
...   { "Product_ID": "P005", "Brand_Name": "Levi's" },
...   { "Product_ID": "P006", "Brand_Name": "Puma" },
...   { "Product_ID": "P007", "Brand_Name": "Puma" },
...   { "Product_ID": "P008", "Brand_Name": "Johnson & Johnson" },
...   { "Product_ID": "P009", "Brand_Name": "Gap Kids" },
...   { "Product_ID": "P010", "Brand_Name": "IKEA" },
...   { "Product_ID": "P011", "Brand_Name": "Nike" },
...   { "Product_ID": "P012", "Brand_Name": "The Body Shop" },
...   { "Product_ID": "P019", "Brand_Name": "Zara" },
...   { "Product_ID": "P021", "Brand_Name": "Forever 21" },
...   { "Product_ID": "P032", "Brand_Name": "Uniqlo" },
...   { "Product_ID": "P036", "Brand_Name": "Reebok" },
...   { "Product_ID": "P039", "Brand_Name": "Mothercare" },
...   { "Product_ID": "P041", "Brand_Name": "Old Navy" },
...   { "Product_ID": "P042", "Brand_Name": "Pottery Barn" },
...   { "Product_ID": "P055", "Brand_Name": "Under Armour" },
...   { "Product_ID": "P061", "Brand_Name": "Dove" },
...   { "Product_ID": "P020", "Brand_Name": "Wrangler" },
...   { "Product_ID": "P031", "Brand_Name": "American Eagle" },
...   { "Product_ID": "P033", "Brand_Name": "GAP" },
...   { "Product_ID": "P054", "Brand_Name": "Columbia" },
...   { "Product_ID": "P056", "Brand_Name": "Himalaya" },
...   { "Product_ID": "P067", "Brand_Name": "The North Face" }
... ]);
```

2.18 Query to Insert Data into the ‘Supplier_Contact_Information’ Collection

```
fm_clothing_store_mongo_1> db.Supplier_Contact_Information.insertMany([
...   { "Supplier_ID": "S001", "Contact_Info": "contact@globalfashion.com", "Product_ID": "P001" },
...   { "Supplier_ID": "S001", "Contact_Info": "contact@globalfashion.com", "Product_ID": "P002" },
...   { "Supplier_ID": "S002", "Contact_Info": "support@urbantranz.com", "Product_ID": "P003" },
...   { "Supplier_ID": "S003", "Contact_Info": "info@cottonsoft.com", "Product_ID": "P004" },
...   { "Supplier_ID": "S003", "Contact_Info": "info@cottonsoft.com", "Product_ID": "P005" },
...   { "Supplier_ID": "S004", "Contact_Info": "sales@sportpro.com", "Product_ID": "P006" },
...   { "Supplier_ID": "S004", "Contact_Info": "sales@sportpro.com", "Product_ID": "P007" },
...   { "Supplier_ID": "S005", "Contact_Info": "help@babycare.com", "Product_ID": "P008" },
...   { "Supplier_ID": "S006", "Contact_Info": "info@kidsapparel.com", "Product_ID": "P009" },
...   { "Supplier_ID": "S007", "Contact_Info": "customer@homecomforts.com", "Product_ID": "P010" },
...   { "Supplier_ID": "S008", "Contact_Info": "contact@nike.com", "Product_ID": "P011" },
...   { "Supplier_ID": "S009", "Contact_Info": "support@beautynaturals.com", "Product_ID": "P012" }
... ]);
```

2.19 Query to Insert Data into the ‘Branch_Location’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Location.insertMany([
...   {
...     Branch_ID: '001',
...     Branch_Address: '15 Red Cross Road, Waterlooville, W01 2SP'
...   },
...   {
...     Branch_ID: '002',
...     Branch_Address: '12 Buckingham Street, Fareham, FO2 3ST'
...   },
...   {
...     Branch_ID: '003',
...     Branch_Address: 'Lake View Street, Gosport, GO3 2FG'
...   },
...   {
...     Branch_ID: '004',
...     Branch_Address: '4 Harleys Street, Havant, HP1 2FP'
...   },
...   {
...     Branch_ID: '005',
...     Branch_Address: 'Harrow Road, Chichester, CH2 4GK'
...   }
... ]);
```

2.20 Query to Insert Data into the ‘Branch_Establishment’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Establishment.insertMany([
...   {
...     Branch_ID: '001',
...     Branch_Year: 2000
...   },
...   {
...     Branch_ID: '002',
...     Branch_Year: 2001
...   },
...   {
...     Branch_ID: '003',
...     Branch_Year: 2002
...   },
...   {
...     Branch_ID: '004',
...     Branch_Year: 2003
...   },
...   {
...     Branch_ID: '005',
...     Branch_Year: 2000
...   }
... ]);
```

2.21 Query to Insert Data into the ‘Branch_Contact’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Contact.insertMany([
...   {
...     Branch_ID: '001',
...     Branch_Email: 'waterloo@fmstores.com'
...   },
...   {
...     Branch_ID: '002',
...     Branch_Email: 'fareham@fmstores.com'
...   },
...   {
...     Branch_ID: '003',
...     Branch_Email: 'gosport@fmstores.com'
...   },
...   {
...     Branch_ID: '004',
...     Branch_Email: 'havant@fmstores.com'
...   },
...   {
...     Branch_ID: '005',
...     Branch_Email: 'chichester@fmstores.com'
...   }
... ]);
```

2.22 Query to Insert Data into the ‘Branch_Phone’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Phone.insertMany([
...   {
...     Branch_ID: '001',
...     Branch_Phone: '+44-1234-567001'
...   },
...   {
...     Branch_ID: '002',
...     Branch_Phone: '+44-1234-567002'
...   },
...   {
...     Branch_ID: '003',
...     Branch_Phone: '+44-1234-567003'
...   },
...   {
...     Branch_ID: '004',
...     Branch_Phone: '+44-1234-567004'
...   },
...   {
...     Branch_ID: '005',
...     Branch_Phone: '+44-1234-567005'
...   }
... ]);
```

3. Queries to View Inserted Data into the Collections

3.1 Query to View Inserted Data into the ‘Branch’ Collection

```
fm_clothing_store_mongo_1> db.Branch.find()
[
  {
    _id: ObjectId("67850e190632caae28762fad"),
    Branch_ID: '001',
    Branch_Name: 'FM Waterlooville Clothing Store',
    City: 'Waterlooville',
    Address: '15 Red Cross Road, Waterlooville, W01 2SP'
  },
  {
    _id: ObjectId("67850e190632caae28762fae"),
    Branch_ID: '002',
    Branch_Name: 'FM Fareham Clothing Store',
    City: 'Fareham',
    Address: '12 Buckingham Street, Fareham, PO2 3ST'
  },
  {
    _id: ObjectId("67850e190632caae28762faf"),
    Branch_ID: '003',
    Branch_Name: 'FM Gosport Clothing Store',
    City: 'Gosport',
    Address: 'Lake View Street, Gosport, PO3 2FG'
  },
  {
    _id: ObjectId("67850e190632caae28762fb0"),
    Branch_ID: '004',
    Branch_Name: 'FM Havant Clothing Store',
    City: 'Havant',
    Address: '4 Harleys Street, Havant, HP1 2FP'
  },
  {
    _id: ObjectId("67850e190632caae28762fb1"),
    Branch_ID: '005',
    Branch_Name: 'FM Chichester Clothing Store',
    City: 'Chichester',
    Address: 'Harrow Road, Chichester, CH2 4GR'
  }
]
```

3.2 Query to View Inserted Data into the ‘Employees’ Collection

```
fm_clothing_store_mongo_1> db.Employees.find()
[
{
  _id: ObjectId("67850e420632caae28762fb2"),
  Employee_ID: '1001',
  First_Name: 'Michael',
  Last_Name: 'Holding',
  Designation: 'Salesman',
  Salary_GBP: 2000,
  Date_Join: '2023-01-01',
  Shift: 'Morning',
  Branch_ID: '001'
},
{
  _id: ObjectId("67850e420632caae28762fb3"),
  Employee_ID: '1002',
  First_Name: 'Lara',
  Last_Name: 'Todes',
  Designation: 'Salesman',
  Salary_GBP: 2000,
  Date_Join: '2023-01-09',
  Shift: 'Evening',
  Branch_ID: '001'
},
{
  _id: ObjectId("67850e420632caae28762fb4"),
  Employee_ID: '1003',
  First_Name: 'Freddie',
  Last_Name: 'Mercury',
  Designation: 'Manager',
  Salary_GBP: 5000,
  Date_Join: '2023-02-01',
  Shift: 'Hybrid',
  Branch_ID: '002'
},
{
  _id: ObjectId("67850e420632caae28762fb5"),
  Employee_ID: '1004',
  First_Name: 'Alfred',
  Last_Name: 'Tyson',
  Designation: 'Manager',
  Salary_GBP: 5000,
  Date_Join: '2023-02-10',
  Shift: 'Hybrid',
  Branch_ID: '001'
},
{
  _id: ObjectId("67850e420632caae28762fb6"),
  Employee_ID: '1005',
  First_Name: 'Brooke',
  Last_Name: 'Johnson',
  Designation: 'Cashier',
  Salary_GBP: 3000,
  Date_Join: '2023-02-25',
  Shift: 'Morning',
  Branch_ID: '003'
},
{
  _id: ObjectId("67850e420632caae28762fb7"),
  Employee_ID: '1006',
  First_Name: 'George',
  Last_Name: 'Bennington',
  Designation: 'Manager',
  Salary_GBP: 5000,
  Date_Join: '2023-03-01',
  Shift: 'Evening',
  Branch_ID: '005'
},
{
  _id: ObjectId("67850e420632caae28762fb8"),
  Employee_ID: '1007',
  First_Name: 'Rohit',
  Last_Name: 'Sharma',
  Designation: 'Manager',
  Salary_GBP: 5000,
  Date_Join: '2023-04-04',
  Shift: 'Hybrid',
  Branch_ID: '003'
},
{
  _id: ObjectId("67850e420632caae28762fb9"),
  Employee_ID: '1008',
  First_Name: 'Kiran',
  Last_Name: 'Shree',
  Designation: 'Manager',
  Salary_GBP: 5000,
  Date_Join: '2023-05-15',
  Shift: 'Hybrid',
  Branch_ID: '004'
},
{
  _id: ObjectId("67850e420632caae28762fba"),
  Employee_ID: '1009',
  First_Name: 'John',
  Last_Name: 'Torod',
  Designation: 'Salesman',
  Salary_GBP: 2000,
  Date_Join: '2023-05-20',
  Shift: 'Night',
  Branch_ID: '001'
}
]
```

3.3 Query to View Inserted Data into the ‘Manager’ Collection

```
fm_clothing_store_mongo_1> db.Manager.find()
[
{
  _id: ObjectId("67850e720632caae28762fbb"),
  Manager_ID: '01',
  Employee_ID: '1004',
  Branch_ID: '001',
  employee_details: [
    {
      Employee_ID: '1004',
      First_Name: 'Alfred',
      Last_Name: 'Tyson',
      Designation: 'Manager',
      Salary_GBP: 5000,
      Date_Join: '2023-02-10',
      Shift: 'Hybrid',
      Branch_ID: '001'
    }
  ]
},
{
  _id: ObjectId("67850e720632caae28762fbc"),
  Manager_ID: '02',
  Employee_ID: '1003',
  Branch_ID: '002',
  employee_details: [
    {
      Employee_ID: '1003',
      First_Name: 'Freddie',
      Last_Name: 'Mercury',
      Designation: 'Manager',
      Salary_GBP: 5000,
      Date_Join: '2023-02-01',
      Shift: 'Hybrid',
      Branch_ID: '002'
    }
  ]
},
{
  _id: ObjectId("67850e720632caae28762fdb"),
  Manager_ID: '03',
  Employee_ID: '1007',
  Branch_ID: '003',
  employee_details: [
    {
      Employee_ID: '1007',
      First_Name: 'Rohit',
      Last_Name: 'Sharma',
      Designation: 'Manager',
      Salary_GBP: 5000,
      Date_Join: '2023-04-04',
      Shift: 'Hybrid',
      Branch_ID: '003'
    }
  ]
},
{
  _id: ObjectId("67850e720632caae28762fbe"),
  Manager_ID: '04',
  Employee_ID: '1008',
  Branch_ID: '004',
  employee_details: [
    {
      Employee_ID: '1008',
      First_Name: 'Kiran',
      Last_Name: 'Shree',
      Designation: 'Manager',
      Salary_GBP: 5000,
      Date_Join: '2023-05-15',
      Shift: 'Hybrid',
      Branch_ID: '004'
    }
  ]
},
{
  _id: ObjectId("67850e720632caae28762fbf"),
  Manager_ID: '05',
  Employee_ID: '1006',
  Branch_ID: '005',
  employee_details: [
    {
      Employee_ID: '1006',
      First_Name: 'George',
      Last_Name: 'Bennington',
      Designation: 'Manager',
      Salary_GBP: 5000,
      Date_Join: '2023-03-01',
      Shift: 'Evening',
      Branch_ID: '005'
    }
  ]
}
]
```

3.4.1 Query to View Inserted Data into the 'Product' Collection (1-10)

```
fm_clothing_store_mongo_1> db.Product.find()
[
  {
    _id: ObjectId("67850ea30632caae28762fc0"),
    Product_ID: 'P001',
    Product_Description: 'Yellow Hoodie',
    Size: 'Small',
    Composition: '100% Woolen',
    Price: 20,
    Category: { Category_ID: 'MN02', Category_Name: 'Men' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc1"),
    Product_ID: 'P002',
    Product_Description: 'Yellow Hoodie',
    Size: 'Medium',
    Composition: '100% Woolen',
    Price: 20,
    Category: { Category_ID: 'MN02', Category_Name: 'Men' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc2"),
    Product_ID: 'P003',
    Product_Description: 'Black Jeans',
    Size: 'Large',
    Composition: 'Denim',
    Price: 15,
    Category: { Category_ID: 'MN02', Category_Name: 'Men' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc3"),
    Product_ID: 'P004',
    Product_Description: 'Red Crop Top',
    Size: 'Medium',
    Composition: '100% Cotton',
    Price: 12,
    Category: { Category_ID: 'WM01', Category_Name: 'Women' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc4"),
    Product_ID: 'P005',
    Product_Description: 'Blue Shirt Dress',
    Size: 'Large',
    Composition: '70% Cotton, 30% Polyester',
    Price: 11,
    Category: { Category_ID: 'WM01', Category_Name: 'Women' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc5"),
    Product_ID: 'P006',
    Product_Description: 'Fifa Ball',
    Size: 'Free Size',
    Composition: 'Synthetic Leather',
    Price: 100,
    Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc6"),
    Product_ID: 'P007',
    Product_Description: 'Cricket Bat',
    Size: 'Free Size',
    Composition: 'Wooden',
    Price: 70,
    Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc7"),
    Product_ID: 'P008',
    Product_Description: 'Baby Pants',
    Size: 'Small',
    Composition: '100% Cotton',
    Price: 8,
    Category: { Category_ID: 'BY03', Category_Name: 'Baby' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc8"),
    Product_ID: 'P009',
    Product_Description: 'Blue Kids Polo T-Shirt',
    Size: 'Medium',
    Composition: '40% Polyester, 60% Cotton',
    Price: 10,
    Category: { Category_ID: 'KD04', Category_Name: 'Kids' }
  },
  {
    _id: ObjectId("67850ea30632caae28762fc9"),
    Product_ID: 'P010',
    Product_Description: 'Beige Sofa Cover',
    Size: 'Free Size',
    Composition: '80% Polyester, 20% Cotton',
    Price: 30,
    Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
  }
]
```

3.4.2 'Product' Collection (11-20)

```
{
  _id: ObjectId("67850ea30632caae28762fca"),
  Product_ID: 'P011',
  Product_Description: 'Nike Sneakers',
  Size: '7',
  Composition: 'Air Max Sports Shoe',
  Price: 80,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ea30632caae28762fcb"),
  Product_ID: 'P012',
  Product_Description: 'Face Wash Kit',
  Size: 'One Size',
  Composition: '100% Organic and Chemical Free',
  Price: 20,
  Category: { Category_ID: 'BT05', Category_Name: 'Beauty' }
},
{
  _id: ObjectId("67850ea30632caae28762fcc"),
  Product_ID: 'P013',
  Product_Description: 'Gaming Keyboard',
  Size: 'Standard',
  Composition: 'Mechanical Keys',
  Price: 50,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ea30632caae28762fcd"),
  Product_ID: 'P014',
  Product_Description: 'Laptop Sleeve',
  Size: '15-inch',
  Composition: 'Neoprene',
  Price: 25,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ea30632caae28762fce"),
  Product_ID: 'P015',
  Product_Description: 'Wireless Mouse',
  Size: 'One Size',
  Composition: 'Plastic',
  Price: 15,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ea30632caae28762fcf"),
  Product_ID: 'P016',
  Product_Description: 'Yoga Mat',
  Size: '6x2 Feet',
  Composition: 'Foam',
  Price: 18,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("67850ea30632caae28762fd0"),
  Product_ID: 'P017',
  Product_Description: 'Water Bottle',
  Size: '1 Liter',
  Composition: 'BPA Free Plastic',
  Price: 10,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ea30632caae28762fd1"),
  Product_ID: 'P018',
  Product_Description: 'Ceramic Mug',
  Size: '300ml',
  Composition: 'Ceramic',
  Price: 8,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ea30632caae28762fd2"),
  Product_ID: 'P019',
  Product_Description: 'Graphic T-Shirt',
  Size: 'Large',
  Composition: '100% Cotton',
  Price: 15,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ea30632caae28762fd3"),
  Product_ID: 'P020',
  Product_Description: 'Silk Scarf',
  Size: 'One Size',
  Composition: '100% silk',
  Price: 25,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' }
}
```

3.4.3 'Product' Collection (21-30)

```
Type "it" for more
fm_clothing_store_mongo_1> it
[
{
  _id: ObjectId("67850ed30632caae28762fd4"),
  Product_ID: 'P021',
  Product_Description: 'Leather Wallet',
  Size: 'One Size',
  Composition: 'Genuine Leather',
  Price: 40,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ed30632caae28762fd5"),
  Product_ID: 'P022',
  Product_Description: 'Kids Puzzle Toy',
  Size: 'Small',
  Composition: 'Plastic',
  Price: 15,
  Category: { Category_ID: 'KD04', Category_Name: 'Kids' }
},
{
  _id: ObjectId("67850ed30632caae28762fd6"),
  Product_ID: 'P023',
  Product_Description: 'Fitness Band',
  Size: 'Adjustable',
  Composition: 'Rubber',
  Price: 45,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ed30632caae28762fd7"),
  Product_ID: 'P024',
  Product_Description: 'Portable Fan',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 20,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fd8"),
  Product_ID: 'P025',
  Product_Description: 'Wooden Coasters',
  Size: 'Set of 4',
  Composition: 'Wood',
  Price: 15,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fd9"),
  Product_ID: 'P026',
  Product_Description: 'Running Shoes',
  Size: '10',
  Composition: 'Mesh Fabric',
  Price: 60,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("67850ed30632caae28762fda"),
  Product_ID: 'P027',
  Product_Description: 'Laptop Bag',
  Size: '14-inch',
  Composition: 'Leather',
  Price: 55,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ed30632caae28762fdb"),
  Product_ID: 'P028',
  Product_Description: 'Bluetooth Speaker',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 40,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("67850ed30632caae28762fdc"),
  Product_ID: 'P029',
  Product_Description: 'Scented Candle',
  Size: '300g',
  Composition: 'Wax',
  Price: 12,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fdd"),
  Product_ID: 'P030',
  Product_Description: 'Electric Kettle',
  Size: '1.5 Liter',
  Composition: 'Stainless Steel',
  Price: 35,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
```

3.4.4 'Product' Collection (31-40)

```
{
  _id: ObjectId("67850ed30632caae28762fde"),
  Product_ID: 'P031',
  Product_Description: 'Sun Glasses',
  Size: 'One Size',
  Composition: 'Plastic and Glass',
  Price: 25,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' }
},
{
  _id: ObjectId("67850ed30632caae28762fdf"),
  Product_ID: 'P032',
  Product_Description: 'Beach Shorts',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 20,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ed30632caae28762fe0"),
  Product_ID: 'P033',
  Product_Description: 'Winter Gloves',
  Size: 'Medium',
  Composition: 'Wool',
  Price: 15,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' }
},
{
  _id: ObjectId("67850ed30632caae28762fe1"),
  Product_ID: 'P034',
  Product_Description: 'Cotton Bathrobe',
  Size: 'Free Size',
  Composition: 'Cotton',
  Price: 50,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fe2"),
  Product_ID: 'P035',
  Product_Description: 'Hand Blender',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 45,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fe3"),
  Product_ID: 'P036',
  Product_Description: 'Analog Watch',
  Size: 'One Size',
  Composition: 'Leather Strap',
  Price: 100,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ed30632caae28762fe4"),
  Product_ID: 'P037',
  Product_Description: 'Digital Alarm Clock',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 30,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("67850ed30632caae28762fe5"),
  Product_ID: 'P038',
  Product_Description: 'Sports Cap',
  Size: 'Adjustable',
  Composition: 'Cotton',
  Price: 15,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("67850ed30632caae28762fe6"),
  Product_ID: 'P039',
  Product_Description: 'Leather Belt',
  Size: '34',
  Composition: 'Leather',
  Price: 20,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("67850ed30632caae28762fe7"),
  Product_ID: 'P040',
  Product_Description: 'Cordless Vacuum Cleaner',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 150,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
}
```

3.4.5 ‘Product’ Collection (41-50)

```
[{"_id": ObjectId("6785105a92cb376766872f70"), "Product_ID": "P041", "Product_Description": "Cotton Socks", "Size": "One Size", "Composition": "Cotton", "Price": 10, "Category": { "Category_ID": "MN02", "Category_Name": "Men" }}, {"_id": ObjectId("6785105a92cb376766872f71"), "Product_ID": "P042", "Product_Description": "Leather Jacket", "Size": "Medium", "Composition": "Genuine Leather", "Price": 120, "Category": { "Category_ID": "MN02", "Category_Name": "Men" }}, {"_id": ObjectId("6785105a92cb376766872f72"), "Product_ID": "P043", "Product_Description": "Bluetooth Headphones", "Size": "One Size", "Composition": "Plastic and Metal", "Price": 80, "Category": { "Category_ID": "EL08", "Category_Name": "Electronics" }}, {"_id": ObjectId("6785105a92cb376766872f73"), "Product_ID": "P044", "Product_Description": "Hair Dryer", "Size": "Compact", "Composition": "Plastic", "Price": 60, "Category": { "Category_ID": "BT05", "Category_Name": "Beauty" }}, {"_id": ObjectId("6785105a92cb376766872f74"), "Product_ID": "P045", "Product_Description": "Nail Polish Set", "Size": "Set of 5", "Composition": "Various", "Price": 20, "Category": { "Category_ID": "BT05", "Category_Name": "Beauty" }}, {"_id": ObjectId("6785105a92cb376766872f75"), "Product_ID": "P046", "Product_Description": "Skin Care Kit", "Size": "One Size", "Composition": "Organic", "Price": 40, "Category": { "Category_ID": "BT05", "Category_Name": "Beauty" }}, {"_id": ObjectId("6785105a92cb376766872f76"), "Product_ID": "P047", "Product_Description": "Makeup Brushes", "Size": "Set of 10", "Composition": "Synthetic Fibers", "Price": 25, "Category": { "Category_ID": "BT05", "Category_Name": "Beauty" }}, {"_id": ObjectId("6785105a92cb376766872f77"), "Product_ID": "P048", "Product_Description": "Bath Towel", "Size": "Large", "Composition": "Cotton", "Price": 12, "Category": { "Category_ID": "HM07", "Category_Name": "Home Products" }}, {"_id": ObjectId("6785105a92cb376766872f78"), "Product_ID": "P049", "Product_Description": "Running Shorts", "Size": "Medium", "Composition": "Polyester", "Price": 25, "Category": { "Category_ID": "SP06", "Category_Name": "Sports" }}, {"_id": ObjectId("6785105a92cb376766872f79"), "Product_ID": "P050", "Product_Description": "Coffee Mug Warmer", "Size": "Compact", "Composition": "Plastic", "Price": 25, "Category": { "Category_ID": "HM07", "Category_Name": "Home Products" }}]
```

3.4.6 'Product' Collection (51-60)

```
{
  _id: ObjectId("6785105a92cb376766872f7a"),
  Product_ID: 'P051',
  Product_Description: 'Electric Toothbrush',
  Size: 'Compact',
  Composition: 'Plastic',
  Price: 35,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("6785105a92cb376766872f7b"),
  Product_ID: 'P052',
  Product_Description: 'Children's Story Book',
  Size: 'One Size',
  Composition: 'Paper',
  Price: 15,
  Category: { Category_ID: 'KD04', Category_Name: 'Kids' }
},
{
  _id: ObjectId("6785105a92cb376766872f7c"),
  Product_ID: 'P053',
  Product_Description: 'Board Game',
  Size: 'Medium',
  Composition: 'Cardboard and Plastic',
  Price: 30,
  Category: { Category_ID: 'KD04', Category_Name: 'Kids' }
},
{
  _id: ObjectId("6785105a92cb376766872f7d"),
  Product_ID: 'P054',
  Product_Description: 'Leather Gloves',
  Size: 'Medium',
  Composition: 'Leather',
  Price: 50,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' }
},
{
  _id: ObjectId("6785105a92cb376766872f7e"),
  Product_ID: 'P055',
  Product_Description: 'Raincoat',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 45,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' }
},
{
  _id: ObjectId("6785105a92cb376766872f7f"),
  Product_ID: 'P056',
  Product_Description: 'Winter Scarf',
  Size: 'One Size',
  Composition: 'Wool',
  Price: 30,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' }
},
{
  _id: ObjectId("6785105a92cb376766872f80"),
  Product_ID: 'P057',
  Product_Description: 'Portable Charger',
  Size: 'Compact',
  Composition: 'Metal and Plastic',
  Price: 50,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("6785105a92cb376766872f81"),
  Product_ID: 'P058',
  Product_Description: 'Notebook',
  Size: 'A5',
  Composition: 'Paper',
  Price: 5,
  Category: { Category_ID: 'ST09', Category_Name: 'Stationery' }
},
{
  _id: ObjectId("6785105a92cb376766872f82"),
  Product_ID: 'P059',
  Product_Description: 'Pen Set',
  Size: 'Set of 10',
  Composition: 'Plastic',
  Price: 8,
  Category: { Category_ID: 'ST09', Category_Name: 'Stationery' }
},
{
  _id: ObjectId("6785105a92cb376766872f83"),
  Product_ID: 'P060',
  Product_Description: 'Desk Lamp',
  Size: 'Compact',
  Composition: 'Plastic and Metal',
  Price: 35,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
}
```

3.4.7 'Product' Collection (61-70)

```
[{"_id": ObjectId("6785109292cb376766872f84"),
  Product_ID: 'P061',
  Product_Description: 'Wristwatch',
  Size: 'Adjustable',
  Composition: 'Metal Strap',
  Price: 120,
  Category: { Category_ID: 'MN02', Category_Name: 'Men' } },
 {"_id": ObjectId("6785109292cb376766872f85"),
  Product_ID: 'P062',
  Product_Description: 'Action Figure',
  Size: 'One Size',
  Composition: 'Plastic',
  Price: 20,
  Category: { Category_ID: 'KD04', Category_Name: 'Kids' } },
 {"_id": ObjectId("6785109292cb376766872f86"),
  Product_ID: 'P063',
  Product_Description: 'Cookware Set',
  Size: 'Set of 5',
  Composition: 'Nonstick',
  Price: 75,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
 {"_id": ObjectId("6785109292cb376766872f87"),
  Product_ID: 'P064',
  Product_Description: 'Cutlery Set',
  Size: 'Set of 24',
  Composition: 'Stainless Steel',
  Price: 50,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
 {"_id": ObjectId("6785109292cb376766872f88"),
  Product_ID: 'P065',
  Product_Description: 'Throw Pillow',
  Size: '18x18 Inches',
  Composition: 'Cotton',
  Price: 20,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
 {"_id": ObjectId("6785109292cb376766872f89"),
  Product_ID: 'P066',
  Product_Description: 'Wall Art',
  Size: 'Large',
  Composition: 'Canvas',
  Price: 75,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' } },
 {"_id": ObjectId("6785109292cb376766872f8a"),
  Product_ID: 'P067',
  Product_Description: 'Winter Coat',
  Size: 'Large',
  Composition: 'Wool Blend',
  Price: 150,
  Category: { Category_ID: 'WM01', Category_Name: 'Women' } },
 {"_id": ObjectId("6785109292cb376766872f8b"),
  Product_ID: 'P068',
  Product_Description: 'LED Flashlight',
  Size: 'Compact',
  Composition: 'Plastic and Metal',
  Price: 20,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' } },
 {"_id": ObjectId("6785109292cb376766872f8c"),
  Product_ID: 'P069',
  Product_Description: 'Baseball Glove',
  Size: 'Large',
  Composition: 'Leather',
  Price: 45,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' } },
 {"_id": ObjectId("6785109292cb376766872f8d"),
  Product_ID: 'P070',
  Product_Description: 'Basketball',
  Size: 'Standard',
  Composition: 'Rubber',
  Price: 30,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' } }]
```

3.4.8 'Product' Collection (71-80)

```
{
  _id: ObjectId("6785109292cb376766872f8e"),
  Product_ID: 'P071',
  Product_Description: 'Portable Grill',
  Size: 'Compact',
  Composition: 'Stainless Steel',
  Price: 100,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("6785109292cb376766872f8f"),
  Product_ID: 'P072',
  Product_Description: 'Multi-Tool',
  Size: 'Compact',
  Composition: 'Metal',
  Price: 25,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("6785109292cb376766872f90"),
  Product_ID: 'P073',
  Product_Description: 'Dumbbell Set',
  Size: 'Set of 2',
  Composition: 'Iron',
  Price: 60,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("6785109292cb376766872f91"),
  Product_ID: 'P074',
  Product_Description: 'Weight Lifting Belt',
  Size: 'Large',
  Composition: 'Leather',
  Price: 30,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("6785109292cb376766872f92"),
  Product_ID: 'P075',
  Product_Description: 'Resistance Bands',
  Size: 'Set of 3',
  Composition: 'Rubber',
  Price: 20,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("6785109292cb376766872f93"),
  Product_ID: 'P076',
  Product_Description: 'Backpack',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 50,
  Category: { Category_ID: 'EL08', Category_Name: 'Electronics' }
},
{
  _id: ObjectId("6785109292cb376766872f94"),
  Product_ID: 'P077',
  Product_Description: 'Travel Pillow',
  Size: 'Compact',
  Composition: 'Memory Foam',
  Price: 20,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("6785109292cb376766872f95"),
  Product_ID: 'P078',
  Product_Description: 'Electric Shaver',
  Size: 'Compact',
  Composition: 'Plastic and Metal',
  Price: 60,
  Category: { Category_ID: 'BT05', Category_Name: 'Beauty' }
},
{
  _id: ObjectId("6785109292cb376766872f96"),
  Product_ID: 'P079',
  Product_Description: 'Hair Straightener',
  Size: 'Compact',
  Composition: 'Plastic and Ceramic',
  Price: 45,
  Category: { Category_ID: 'BT05', Category_Name: 'Beauty' }
},
{
  _id: ObjectId("6785109292cb376766872f97"),
  Product_ID: 'P080',
  Product_Description: 'Bike Helmet',
  Size: 'Medium',
  Composition: 'Plastic',
  Price: 40,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
}
]
```

3.4.9 'Product' Collection (81-90)

```
[  
  {  
    _id: ObjectId("678510c292cb376766872f98") ,  
    Product_ID: 'P081' ,  
    Product_Description: 'Electric Scooter' ,  
    Size: 'Standard' ,  
    Composition: 'Metal and Plastic' ,  
    Price: 300 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f99") ,  
    Product_ID: 'P082' ,  
    Product_Description: 'Wireless Charger' ,  
    Size: 'Compact' ,  
    Composition: 'Plastic and Metal' ,  
    Price: 40 ,  
    Category: { Category_ID: 'EL08' , Category_Name: 'Electronics' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9a") ,  
    Product_ID: 'P083' ,  
    Product_Description: 'Travel Bag' ,  
    Size: 'Medium' ,  
    Composition: 'Leather' ,  
    Price: 80 ,  
    Category: { Category_ID: 'EL08' , Category_Name: 'Electronics' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9b") ,  
    Product_ID: 'P084' ,  
    Product_Description: 'Camping Tent' ,  
    Size: '4 Person' ,  
    Composition: 'Polyester' ,  
    Price: 150 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9c") ,  
    Product_ID: 'P085' ,  
    Product_Description: 'Sleeping Bag' ,  
    Size: 'Large' ,  
    Composition: 'Polyester' ,  
    Price: 100 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9d") ,  
    Product_ID: 'P086' ,  
    Product_Description: 'Waterproof Jacket' ,  
    Size: 'Large' ,  
    Composition: 'Polyester' ,  
    Price: 100 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9e") ,  
    Product_ID: 'P087' ,  
    Product_Description: 'Hiking Boots' ,  
    Size: '10' ,  
    Composition: 'Leather' ,  
    Price: 150 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872f9f") ,  
    Product_ID: 'P088' ,  
    Product_Description: 'Garden Tools Set' ,  
    Size: 'Set of 5' ,  
    Composition: 'Metal' ,  
    Price: 40 ,  
    Category: { Category_ID: 'HM07' , Category_Name: 'Home Products' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872fa0") ,  
    Product_ID: 'P089' ,  
    Product_Description: 'Pet Bed' ,  
    Size: 'Large' ,  
    Composition: 'Cotton' ,  
    Price: 80 ,  
    Category: { Category_ID: 'HM07' , Category_Name: 'Home Products' }  
  } ,  
  {  
    _id: ObjectId("678510c292cb376766872fa1") ,  
    Product_ID: 'P090' ,  
    Product_Description: 'Tennis Racket' ,  
    Size: 'Standard' ,  
    Composition: 'Metal and Nylon' ,  
    Price: 60 ,  
    Category: { Category_ID: 'SP06' , Category_Name: 'Sports' }  
},
```

3.4.10 ‘Product’ Collection (91-100)

```
{
  _id: ObjectId("678510c292cb376766872fa2"),
  Product_ID: 'P091',
  Product_Description: 'Golf Clubs Set',
  Size: 'Standard',
  Composition: 'Metal',
  Price: 300,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("678510c292cb376766872fa3"),
  Product_ID: 'P092',
  Product_Description: 'Gym Bag',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 50,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("678510c292cb376766872fa4"),
  Product_ID: 'P093',
  Product_Description: 'Soccer Shoes',
  Size: '9',
  Composition: 'Leather',
  Price: 90,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("678510c292cb376766872fa5"),
  Product_ID: 'P094',
  Product_Description: 'Football Jersey',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 60,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("678510c292cb376766872fa6"),
  Product_ID: 'P095',
  Product_Description: 'Protein Shaker',
  Size: '700ml',
  Composition: 'Plastic',
  Price: 10,
  Category: { Category_ID: 'SP06', Category_Name: 'Sports' }
},
{
  _id: ObjectId("678510c292cb376766872fa7"),
  Product_ID: 'P096',
  Product_Description: 'Hammock',
  Size: 'Double',
  Composition: 'Cotton',
  Price: 75,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("678510c292cb376766872fa8"),
  Product_ID: 'P097',
  Product_Description: 'Juicer',
  Size: 'Compact',
  Composition: 'Plastic and Metal',
  Price: 50,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("678510c292cb376766872fa9"),
  Product_ID: 'P098',
  Product_Description: 'Sewing Machine',
  Size: 'Compact',
  Composition: 'Metal and Plastic',
  Price: 200,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("678510c292cb376766872faa"),
  Product_ID: 'P099',
  Product_Description: 'Waffle Maker',
  Size: 'Compact',
  Composition: 'Metal',
  Price: 35,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
},
{
  _id: ObjectId("678510c292cb376766872fab"),
  Product_ID: 'P100',
  Product_Description: 'Candle Holder',
  Size: 'Set of 3',
  Composition: 'Metal',
  Price: 20,
  Category: { Category_ID: 'HM07', Category_Name: 'Home Products' }
}
]
```

3.5 Query to View Inserted Data into the ‘Customer’ Collection

```
fm_clothing_store_mongo_1> db.Customer.find()
[
  {
    _id: ObjectId("6785110492cb376766872fac"),
    Customer_ID: 'C001',
    First_Name: 'Angelo',
    Last_Name: 'Thomson',
    Email: 'at123@gmail.com',
    Phone: '0123456789',
    Address: 'Harrow, LO1 2SP',
    City: 'London',
    Reg_Date: '2024-09-01'
  },
  {
    _id: ObjectId("6785110492cb376766872fad"),
    Customer_ID: 'C002',
    First_Name: 'Gary',
    Last_Name: 'Mehigan',
    Email: 'gm321@gmail.com',
    Phone: '9874561230',
    Address: 'South Hall, LO2 3AB',
    City: 'London',
    Reg_Date: '2024-09-12'
  },
  {
    _id: ObjectId("6785110492cb376766872fae"),
    Customer_ID: 'C003',
    First_Name: 'Mike',
    Last_Name: 'Paul',
    Email: 'mp123@gmail.com',
    Phone: '0147852369',
    Address: '4th Cross, MN1 3AS',
    City: 'Manchester',
    Reg_Date: '2024-09-30'
  },
  {
    _id: ObjectId("6785110492cb376766872faf"),
    Customer_ID: 'C004',
    First_Name: 'Sara',
    Last_Name: 'Ali',
    Email: 'sa123@gmail.com',
    Phone: '3698520147',
    Address: 'Upon Thames, LO2 3PG',
    City: 'London',
    Reg_Date: '2024-09-30'
  },
  {
    _id: ObjectId("6785110492cb376766872fb0"),
    Customer_ID: 'C005',
    First_Name: 'Tom',
    Last_Name: 'Cruise',
    Email: 'tm325@gmail.com',
    Phone: '8520147963',
    Address: 'UOC Headquarter, CM2 5BJ',
    City: 'Cambridge',
    Reg_Date: '2024-10-06'
  },
  {
    _id: ObjectId("6785110492cb376766872fb1"),
    Customer_ID: 'C006',
    First_Name: 'Sania',
    Last_Name: 'Todes',
    Email: 'st456@gmail.com',
    Phone: '0147258369',
    Address: 'Central Park, LO4 BG',
    City: 'London',
    Reg_Date: '2024-10-12'
  },
  {
    _id: ObjectId("6785110492cb376766872fb2"),
    Customer_ID: 'C007',
    First_Name: 'Myke',
    Last_Name: 'Bennington',
    Email: 'mb456@gmail.com',
    Phone: '4569871230',
    Address: 'James Road, MN02 4DK',
    City: 'Manchester',
    Reg_Date: '2024-10-25'
  },
  {
    _id: ObjectId("6785110492cb376766872fb3"),
    Customer_ID: 'C008',
    First_Name: 'Farah',
    Last_Name: 'James',
    Email: 'fj897@gmail.com',
    Phone: '0123654789',
    Address: 'Red Cross, CM1 2LM',
    City: 'Cambridge',
    Reg_Date: '2024-10-30'
  },
  {
    _id: ObjectId("6785110492cb376766872fb4"),
    Customer_ID: 'C009',
    First_Name: 'George',
    Last_Name: 'Jackson',
    Email: 'gj758@gmail.com',
    Phone: '9874563210',
    Address: '1st Cross Lake View, MN05 7PL',
    City: 'Manchester',
    Reg_Date: '2024-10-31'
  },
  {
    _id: ObjectId("6785110492cb376766872fb5"),
    Customer_ID: 'C010',
    First_Name: 'Shakeel',
    Last_Name: 'Ali',
    Email: 'sa123@gmail.com',
    Phone: '4560123879',
    Address: 'Guildhall Hall, PO1 2SP',
    City: 'Portsmouth',
    Reg_Date: '2024-10-31'
  }
]
```

3.6.1 Query to View Inserted Data into the ‘Orders’ Collection (1-7)

```
fm_clothing_store_mongo_1> db.Orders.find()
[
  {
    _id: ObjectId("6785114392cb376766872fb6"),
    Order_ID: 'OD001',
    Order_Date: '2024-09-01',
    Total_Amount: 35,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C001',
    Branch_ID: '001',
    Order_Details: [
      { Product_ID: 'P002', Quantity: 1, Price_Per_Item: 20 },
      { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15 }
    ]
  },
  {
    _id: ObjectId("6785114392cb376766872fb7"),
    Order_ID: 'OD002',
    Order_Date: '2024-09-05',
    Total_Amount: 20,
    Payment_Method: 'Cash',
    Delivery_Method: 'Store Pickup',
    Customer_ID: 'C001',
    Branch_ID: '002',
    Order_Details: [ { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fb8"),
    Order_ID: 'OD003',
    Order_Date: '2024-09-12',
    Total_Amount: 35,
    Payment_Method: 'Cash',
    Delivery_Method: 'Store Pickup',
    Customer_ID: 'C002',
    Branch_ID: '005',
    Order_Details: [
      { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20 },
      { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15 }
    ]
  },
  {
    _id: ObjectId("6785114392cb376766872fb9"),
    Order_ID: 'OD004',
    Order_Date: '2024-09-30',
    Total_Amount: 40,
    Payment_Method: 'Cash',
    Delivery_Method: 'Store Pickup',
    Customer_ID: 'C003',
    Branch_ID: '003',
    Order_Details: [ { Product_ID: 'P002', Quantity: 2, Price_Per_Item: 20 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fba"),
    Order_ID: 'OD005',
    Order_Date: '2024-09-30',
    Total_Amount: 18,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C004',
    Branch_ID: '004',
    Order_Details: [
      { Product_ID: 'P008', Quantity: 1, Price_Per_Item: 8 },
      { Product_ID: 'P009', Quantity: 1, Price_Per_Item: 10 }
    ]
  },
  {
    _id: ObjectId("6785114392cb376766872fbb"),
    Order_ID: 'OD006',
    Order_Date: '2024-10-06',
    Total_Amount: 170,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C005',
    Branch_ID: '005',
    Order_Details: [
      { Product_ID: 'P006', Quantity: 1, Price_Per_Item: 100 },
      { Product_ID: 'P007', Quantity: 1, Price_Per_Item: 70 }
    ]
  },
  {
    _id: ObjectId("6785114392cb376766872fbc"),
    Order_ID: 'OD007',
    Order_Date: '2024-10-12',
    Total_Amount: 35,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C006',
    Branch_ID: '001',
    Order_Details: [
      { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20 },
      { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15 }
    ]
  },
] ,
```

3.6.2 'Orders' Collection (8-12)

```

[
  {
    _id: ObjectId("6785114392cb376766872fbd"),
    Order_ID: 'OD008',
    Order_Date: '2024-10-25',
    Total_Amount: 10,
    Payment_Method: 'Cash',
    Delivery_Method: 'Store Pickup',
    Customer_ID: 'C007',
    Branch_ID: '001',
    Order_Details: [ { Product_ID: 'P009', Quantity: 1, Price_Per_Item: 10 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fbe"),
    Order_ID: 'OD009',
    Order_Date: '2024-10-29',
    Total_Amount: 40,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C001',
    Branch_ID: '004',
    Order_Details: [ { Product_ID: 'P002', Quantity: 2, Price_Per_Item: 20 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fbf"),
    Order_ID: 'OD010',
    Order_Date: '2024-10-30',
    Total_Amount: 30,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C008',
    Branch_ID: '003',
    Order_Details: [ { Product_ID: 'P003', Quantity: 2, Price_Per_Item: 15 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fc0"),
    Order_ID: 'OD011',
    Order_Date: '2024-10-31',
    Total_Amount: 20,
    Payment_Method: 'Online',
    Delivery_Method: 'Home Delivery',
    Customer_ID: 'C009',
    Branch_ID: '001',
    Order_Details: [ { Product_ID: 'P009', Quantity: 2, Price_Per_Item: 10 } ]
  },
  {
    _id: ObjectId("6785114392cb376766872fc1"),
    Order_ID: 'OD012',
    Order_Date: '2024-10-31',
    Total_Amount: 30,
    Payment_Method: 'Cash',
    Delivery_Method: 'Store Pickup',
    Customer_ID: 'C010',
    Branch_ID: '002',
    Order_Details: [ { Product_ID: 'P010', Quantity: 1, Price_Per_Item: 30 } ]
  }
]

```

3.7.1 Query to View Inserted Data into the ‘Product_Stock’ Collection

```
fm_clothing_store_mongo_1> db.Product_Stock.find()
[
{
  _id: ObjectId("678511d892cb376766872fc2"),
  Product_ID: 'P001',
  Branch_ID: '001',
  Stock_Quantity: 50
},
{
  _id: ObjectId("678511d892cb376766872fc3"),
  Product_ID: 'P001',
  Branch_ID: '002',
  Stock_Quantity: 30
},
{
  _id: ObjectId("678511d892cb376766872fc4"),
  Product_ID: 'P001',
  Branch_ID: '003',
  Stock_Quantity: 10
},
{
  _id: ObjectId("678511d892cb376766872fc5"),
  Product_ID: 'P001',
  Branch_ID: '004',
  Stock_Quantity: 70
},
{
  _id: ObjectId("678511d892cb376766872fc6"),
  Product_ID: 'P001',
  Branch_ID: '005',
  Stock_Quantity: 10
},
{
  _id: ObjectId("678511d892cb376766872fc7"),
  Product_ID: 'P002',
  Branch_ID: '001',
  Stock_Quantity: 30
},
{
  _id: ObjectId("678511d892cb376766872fc8"),
  Product_ID: 'P002',
  Branch_ID: '002',
  Stock_Quantity: 40
},
{
  _id: ObjectId("678511d892cb376766872fc9"),
  Product_ID: 'P002',
  Branch_ID: '003',
  Stock_Quantity: 10
},
{
  _id: ObjectId("678511d892cb376766872fca"),
  Product_ID: 'P002',
  Branch_ID: '004',
  Stock_Quantity: 20
},
{
  _id: ObjectId("678511d892cb376766872fcb"),
  Product_ID: 'P002',
  Branch_ID: '005',
  Stock_Quantity: 30
},
{
  _id: ObjectId("678511d892cb376766872fcc"),
  Product_ID: 'P003',
  Branch_ID: '001',
  Stock_Quantity: 15
},
{
  _id: ObjectId("678511d892cb376766872fd"),
  Product_ID: 'P003',
  Branch_ID: '002',
  Stock_Quantity: 32
},
{
  _id: ObjectId("678511d892cb376766872fce"),
  Product_ID: 'P003',
  Branch_ID: '003',
  Stock_Quantity: 14
},
{
  _id: ObjectId("678511d892cb376766872fcf"),
  Product_ID: 'P003',
  Branch_ID: '004',
  Stock_Quantity: 25
},
{
  _id: ObjectId("678511d892cb376766872fd0"),
  Product_ID: 'P003',
  Branch_ID: '005',
  Stock_Quantity: 32
}
],
```

3.7.2 'Product_Stock' Collection (contd...)

```
{
  _id: ObjectId("678511d892cb376766872fd1"),
  Product_ID: 'P004',
  Branch_ID: '001',
  Stock_Quantity: 40
},
{
  _id: ObjectId("678511d892cb376766872fd2"),
  Product_ID: 'P004',
  Branch_ID: '002',
  Stock_Quantity: 12
},
{
  _id: ObjectId("678511d892cb376766872fd3"),
  Product_ID: 'P004',
  Branch_ID: '003',
  Stock_Quantity: 10
},
{
  _id: ObjectId("678511d892cb376766872fd4"),
  Product_ID: 'P004',
  Branch_ID: '004',
  Stock_Quantity: 32
},
{
  _id: ObjectId("678511d892cb376766872fd5"),
  Product_ID: 'P004',
  Branch_ID: '005',
  Stock_Quantity: 14
}
]
Type "it" for more
fm_clothing_store_mongo_1> it
[
  {
    _id: ObjectId("678511d892cb376766872fd6"),
    Product_ID: 'P005',
    Branch_ID: '001',
    Stock_Quantity: 29
  },
  {
    _id: ObjectId("678511d892cb376766872fd7"),
    Product_ID: 'P005',
    Branch_ID: '002',
    Stock_Quantity: 21
  },
  {
    _id: ObjectId("678511d892cb376766872fd8"),
    Product_ID: 'P005',
    Branch_ID: '003',
    Stock_Quantity: 14
  },
  {
    _id: ObjectId("678511d892cb376766872fd9"),
    Product_ID: 'P005',
    Branch_ID: '004',
    Stock_Quantity: 23
  },
  {
    _id: ObjectId("678511d892cb376766872fda"),
    Product_ID: 'P005',
    Branch_ID: '005',
    Stock_Quantity: 25
  },
  {
    _id: ObjectId("678511d892cb376766872fdb"),
    Product_ID: 'P006',
    Branch_ID: '001',
    Stock_Quantity: 21
  },
  {
    _id: ObjectId("678511d892cb376766872fdc"),
    Product_ID: 'P006',
    Branch_ID: '002',
    Stock_Quantity: 10
  },
  {
    _id: ObjectId("678511d892cb376766872fdd"),
    Product_ID: 'P006',
    Branch_ID: '003',
    Stock_Quantity: 5
  },
  {
    _id: ObjectId("678511d892cb376766872fde"),
    Product_ID: 'P006',
    Branch_ID: '004',
    Stock_Quantity: 1
  },
  {
    _id: ObjectId("678511d892cb376766872fdf"),
    Product_ID: 'P006',
    Branch_ID: '005',
    Stock_Quantity: 36
  }
],
```

3.7.3 'Product_Stock' Collection (contd...)

```
{
  _id: ObjectId("678511d892cb376766872fe0"),
  Product_ID: 'P007',
  Branch_ID: '001',
  Stock_Quantity: 45
},
{
  _id: ObjectId("678511d892cb376766872fe1"),
  Product_ID: 'P007',
  Branch_ID: '002',
  Stock_Quantity: 21
},
{
  _id: ObjectId("678511d892cb376766872fe2"),
  Product_ID: 'P007',
  Branch_ID: '003',
  Stock_Quantity: 21
},
{
  _id: ObjectId("678511d892cb376766872fe3"),
  Product_ID: 'P007',
  Branch_ID: '004',
  Stock_Quantity: 10
},
{
  _id: ObjectId("678511d892cb376766872fe4"),
  Product_ID: 'P007',
  Branch_ID: '005',
  Stock_Quantity: 23
},
{
  _id: ObjectId("678511d892cb376766872fe5"),
  Product_ID: 'P008',
  Branch_ID: '001',
  Stock_Quantity: 25
},
{
  _id: ObjectId("678511d892cb376766872fe6"),
  Product_ID: 'P008',
  Branch_ID: '002',
  Stock_Quantity: 24
},
{
  _id: ObjectId("678511d892cb376766872fe7"),
  Product_ID: 'P008',
  Branch_ID: '003',
  Stock_Quantity: 23
},
{
  _id: ObjectId("678511d892cb376766872fe8"),
  Product_ID: 'P008',
  Branch_ID: '004',
  Stock_Quantity: 25
},
{
  _id: ObjectId("678511d892cb376766872fe9"),
  Product_ID: 'P008',
  Branch_ID: '005',
  Stock_Quantity: 10
}
]
Type "it" for more
fm_clothing_store_mongo_1> it
[
  {
    _id: ObjectId("678511d892cb376766872fea"),
    Product_ID: 'P009',
    Branch_ID: '001',
    Stock_Quantity: 9
  },
  {
    _id: ObjectId("678511d892cb376766872feb"),
    Product_ID: 'P009',
    Branch_ID: '002',
    Stock_Quantity: 5
  },
  {
    _id: ObjectId("678511d892cb376766872fec"),
    Product_ID: 'P009',
    Branch_ID: '003',
    Stock_Quantity: 42
  },
  {
    _id: ObjectId("678511d892cb376766872fed"),
    Product_ID: 'P009',
    Branch_ID: '004',
    Stock_Quantity: 35
  },
  {
    _id: ObjectId("678511d892cb376766872fee"),
    Product_ID: 'P009',
    Branch_ID: '005',
    Stock_Quantity: 12
  }
],
```

3.7.4 'Product_Stock' Collection (contd...)

```

    },
    {
        _id: ObjectId("678511d892cb376766872fef") ,
        Product_ID: 'P010',
        Branch_ID: '001',
        Stock_Quantity: 14
    },
    {
        _id: ObjectId("678511d892cb376766872ff0") ,
        Product_ID: 'P010',
        Branch_ID: '002',
        Stock_Quantity: 25
    },
    {
        _id: ObjectId("678511d892cb376766872ff1") ,
        Product_ID: 'P010',
        Branch_ID: '003',
        Stock_Quantity: 25
    },
    {
        _id: ObjectId("678511d892cb376766872ff2") ,
        Product_ID: 'P010',
        Branch_ID: '004',
        Stock_Quantity: 24
    },
    {
        _id: ObjectId("678511d892cb376766872ff3") ,
        Product_ID: 'P010',
        Branch_ID: '005',
        Stock_Quantity: 23
    },
    {
        _id: ObjectId("678511d892cb376766872ff4") ,
        Product_ID: 'P011',
        Branch_ID: '001',
        Stock_Quantity: 21
    },
    {
        _id: ObjectId("678511d892cb376766872ff5") ,
        Product_ID: 'P011',
        Branch_ID: '002',
        Stock_Quantity: 29
    },
    {
        _id: ObjectId("678511d892cb376766872ff6") ,
        Product_ID: 'P011',
        Branch_ID: '003',
        Stock_Quantity: 27
    },
    {
        _id: ObjectId("678511d892cb376766872ff7") ,
        Product_ID: 'P011',
        Branch_ID: '004',
        Stock_Quantity: 28
    },
    {
        _id: ObjectId("678511d892cb376766872ff8") ,
        Product_ID: 'P011',
        Branch_ID: '005',
        Stock_Quantity: 24
    },
    {
        _id: ObjectId("678511d892cb376766872ff9") ,
        Product_ID: 'P012',
        Branch_ID: '001',
        Stock_Quantity: 15
    },
    {
        _id: ObjectId("678511d892cb376766872ffa") ,
        Product_ID: 'P012',
        Branch_ID: '002',
        Stock_Quantity: 10
    },
    {
        _id: ObjectId("678511d892cb376766872ffb") ,
        Product_ID: 'P012',
        Branch_ID: '003',
        Stock_Quantity: 15
    },
    {
        _id: ObjectId("678511d892cb376766872ffc") ,
        Product_ID: 'P012',
        Branch_ID: '004',
        Stock_Quantity: 10
    },
    {
        _id: ObjectId("678511d892cb376766872ffd") ,
        Product_ID: 'P012',
        Branch_ID: '005',
        Stock_Quantity: 15
    }
]

```

3.8 Query to View Inserted Data into the ‘Delivery’ Collection

```
fm_clothing_store_mongo_1> db.Delivery.find()
[
  {
    _id: ObjectId("6785121692cb376766872ffe"),
    Delivery_ID: 'DL01',
    Order_ID: 'OD001',
    Delivery_Date: '2024-09-03',
    Delivery_Address: 'Harrow, LO1 2SP',
    Delivery_Status: 'Delivered',
    Branch_ID: '001'
  },
  {
    _id: ObjectId("6785121692cb376766872fff"),
    Delivery_ID: 'DL02',
    Order_ID: 'OD005',
    Delivery_Date: '2024-10-03',
    Delivery_Address: 'Upon Thames, LO2 3PG',
    Delivery_Status: 'Delivered',
    Branch_ID: '004'
  },
  {
    _id: ObjectId("6785121692cb376766873000"),
    Delivery_ID: 'DL03',
    Order_ID: 'OD006',
    Delivery_Date: '2024-10-08',
    Delivery_Address: 'UOC Headquarter, CM2 5BJ',
    Delivery_Status: 'Delivered',
    Branch_ID: '005'
  },
  {
    _id: ObjectId("6785121692cb376766873001"),
    Delivery_ID: 'DL04',
    Order_ID: 'OD007',
    Delivery_Date: '2024-10-14',
    Delivery_Address: 'Central Park, LO4 BG',
    Delivery_Status: 'Delivered',
    Branch_ID: '001'
  },
  {
    _id: ObjectId("6785121692cb376766873002"),
    Delivery_ID: 'DL05',
    Order_ID: 'OD009',
    Delivery_Date: '2024-10-30',
    Delivery_Address: 'Harrow, LO1 2SP',
    Delivery_Status: 'Delivered',
    Branch_ID: '004'
  },
  {
    _id: ObjectId("6785121692cb376766873003"),
    Delivery_ID: 'DL06',
    Order_ID: 'OD010',
    Delivery_Date: '2024-11-01',
    Delivery_Address: 'Red Cross, CM1 2LM',
    Delivery_Status: 'Delivered',
    Branch_ID: '003'
  },
  {
    _id: ObjectId("6785121692cb376766873004"),
    Delivery_ID: 'DL07',
    Order_ID: 'OD011',
    Delivery_Date: '2024-11-02',
    Delivery_Address: '1st Cross Lake View, MN05 7PL',
    Delivery_Status: 'Delivered',
    Branch_ID: '001'
  }
]
```

3.9 Query to View Inserted Data into the ‘Delivery_Person_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Person_Information.find()
[
  {
    _id: ObjectId("6785123e92cb376766873005"),
    Delivery_ID: 'DL01',
    Delivery_Person_Name: 'John Doe',
    Delivery_Person_Contact_NO: '123-456-7890'
  },
  {
    _id: ObjectId("6785123e92cb376766873006"),
    Delivery_ID: 'DL02',
    Delivery_Person_Name: 'Jane Smith',
    Delivery_Person_Contact_NO: '234-567-8901'
  },
  {
    _id: ObjectId("6785123e92cb376766873007"),
    Delivery_ID: 'DL03',
    Delivery_Person_Name: 'Alice Brown',
    Delivery_Person_Contact_NO: '345-678-9012'
  },
  {
    _id: ObjectId("6785123e92cb376766873008"),
    Delivery_ID: 'DL04',
    Delivery_Person_Name: 'Bob White',
    Delivery_Person_Contact_NO: '456-789-0123'
  },
  {
    _id: ObjectId("6785123e92cb376766873009"),
    Delivery_ID: 'DL05',
    Delivery_Person_Name: 'Charlie Green',
    Delivery_Person_Contact_NO: '567-890-1234'
  },
  {
    _id: ObjectId("6785123e92cb37676687300a"),
    Delivery_ID: 'DL06',
    Delivery_Person_Name: 'David Black',
    Delivery_Person_Contact_NO: '678-901-2345'
  },
  {
    _id: ObjectId("6785123e92cb37676687300b"),
    Delivery_ID: 'DL07',
    Delivery_Person_Name: 'Eve Blue',
    Delivery_Person_Contact_NO: '789-012-3456'
  }
]
```

3.10 Query to View Inserted Data into the ‘Delivery_Company_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Company_Information.find()
[
  {
    _id: ObjectId("6785126d92cb37676687300c"),
    Delivery_ID: 'DL01',
    Delivery_Company: 'FastTrack Logistics',
    Delivery_Cost: 10
  },
  {
    _id: ObjectId("6785126d92cb37676687300d"),
    Delivery_ID: 'DL02',
    Delivery_Company: 'QuickShip Couriers',
    Delivery_Cost: 8
  },
  {
    _id: ObjectId("6785126d92cb37676687300e"),
    Delivery_ID: 'DL03',
    Delivery_Company: 'ShipFast Delivery',
    Delivery_Cost: 12
  },
  {
    _id: ObjectId("6785126d92cb37676687300f"),
    Delivery_ID: 'DL04',
    Delivery_Company: 'FastTrack Logistics',
    Delivery_Cost: 10
  },
  {
    _id: ObjectId("6785126d92cb376766873010"),
    Delivery_ID: 'DL05',
    Delivery_Company: 'QuickShip Couriers',
    Delivery_Cost: 8
  },
  {
    _id: ObjectId("6785126d92cb376766873011"),
    Delivery_ID: 'DL06',
    Delivery_Company: 'ShipFast Delivery',
    Delivery_Cost: 12
  },
  {
    _id: ObjectId("6785126d92cb376766873012"),
    Delivery_ID: 'DL07',
    Delivery_Company: 'FastTrack Logistics',
    Delivery_Cost: 10
  }
]
```

3.11 Query to View Inserted Data into the ‘Delivery_Payment_Information’ Collection

```
fm_clothing_store_mongo_1> db.Delivery_Payment_Information.find()  
[  
 {  
   _id: ObjectId("6785129a92cb376766873013"),  
   Delivery_ID: 'DL01',  
   Delivery_Payment: 'Paid'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873014"),  
   Delivery_ID: 'DL02',  
   Delivery_Payment: 'Pending'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873015"),  
   Delivery_ID: 'DL03',  
   Delivery_Payment: 'Paid'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873016"),  
   Delivery_ID: 'DL04',  
   Delivery_Payment: 'Paid'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873017"),  
   Delivery_ID: 'DL05',  
   Delivery_Payment: 'Paid'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873018"),  
   Delivery_ID: 'DL06',  
   Delivery_Payment: 'Pending'  
,  
 {  
   _id: ObjectId("6785129a92cb376766873019"),  
   Delivery_ID: 'DL07',  
   Delivery_Payment: 'Paid'  
 }  
]
```

3.12 Query to View Inserted Data into the ‘Payment_Information’ Collection

```
fm_clothing_store_mongo_1> db.Payment_Information.find()
[
  {
    _id: ObjectId("678512c692cb37676687301a"),
    Order_ID: 'OD001',
    Transaction_ID: 'TX100001'
  },
  {
    _id: ObjectId("678512c692cb37676687301b"),
    Order_ID: 'OD002',
    Transaction_ID: 'TX100002'
  },
  {
    _id: ObjectId("678512c692cb37676687301c"),
    Order_ID: 'OD003',
    Transaction_ID: 'TX100003'
  },
  {
    _id: ObjectId("678512c692cb37676687301d"),
    Order_ID: 'OD004',
    Transaction_ID: 'TX100004'
  },
  {
    _id: ObjectId("678512c692cb37676687301e"),
    Order_ID: 'OD005',
    Transaction_ID: 'TX100005'
  },
  {
    _id: ObjectId("678512c692cb37676687301f"),
    Order_ID: 'OD006',
    Transaction_ID: 'TX100006'
  },
  {
    _id: ObjectId("678512c692cb376766873020"),
    Order_ID: 'OD007',
    Transaction_ID: 'TX100007'
  },
  {
    _id: ObjectId("678512c692cb376766873021"),
    Order_ID: 'OD008',
    Transaction_ID: 'TX100008'
  },
  {
    _id: ObjectId("678512c692cb376766873022"),
    Order_ID: 'OD009',
    Transaction_ID: 'TX100009'
  },
  {
    _id: ObjectId("678512c692cb376766873023"),
    Order_ID: 'OD010',
    Transaction_ID: 'TX100010'
  },
  {
    _id: ObjectId("678512c692cb376766873024"),
    Order_ID: 'OD011',
    Transaction_ID: 'TX100011'
  },
  {
    _id: ObjectId("678512c692cb376766873025"),
    Order_ID: 'OD012',
    Transaction_ID: 'TX100012'
  }
]
```

3.13 Query to View Inserted Data into the ‘Order_Reviews’ Collection

```
fm_clothing_store_mongo_1> db.Order_Reviews.find()
[
  {
    _id: ObjectId("6785144668a52a9e40fdc3eb"),
    Order_ID: 'OD001',
    Order_Rating: 4
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3ec"),
    Order_ID: 'OD002',
    Order_Rating: 5
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3ed"),
    Order_ID: 'OD003',
    Order_Rating: 3
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3ee"),
    Order_ID: 'OD004',
    Order_Rating: 2
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3ef"),
    Order_ID: 'OD005',
    Order_Rating: 5
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f0"),
    Order_ID: 'OD006',
    Order_Rating: 1
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f1"),
    Order_ID: 'OD007',
    Order_Rating: 4
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f2"),
    Order_ID: 'OD008',
    Order_Rating: 3
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f3"),
    Order_ID: 'OD009',
    Order_Rating: 5
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f4"),
    Order_ID: 'OD010',
    Order_Rating: 2
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f5"),
    Order_ID: 'OD011',
    Order_Rating: 4
  },
  {
    _id: ObjectId("6785144668a52a9e40fdc3f6"),
    Order_ID: 'OD012',
    Order_Rating: 3
  }
]
```

3.14 Query to View Inserted Data into the ‘Order_Feedback’ Collection

```
fm_clothing_store_mongo_1> db.Order_Feedback.find()
[
{
  _id: ObjectId("6785147268a52a9e40fdc3f7"),
  Order_ID: 'OD001',
  Order_Review_Note: 'Good quality, satisfied with the order.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3f8"),
  Order_ID: 'OD002',
  Order_Review_Note: 'Excellent service and fast delivery!'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3f9"),
  Order_ID: 'OD003',
  Order_Review_Note: 'Decent, but there is room for improvement.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3fa"),
  Order_ID: 'OD004',
  Order_Review_Note: 'Not happy with the product. Expected better quality.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3fb"),
  Order_ID: 'OD005',
  Order_Review_Note: 'Perfect, highly recommend this product!'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3fc"),
  Order_ID: 'OD006',
  Order_Review_Note: 'Very disappointed. The product was damaged.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3fd"),
  Order_ID: 'OD007',
  Order_Review_Note: 'Good, but the delivery was slower than expected.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3fe"),
  Order_ID: 'OD008',
  Order_Review_Note: 'Average experience. Could be better.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc3ff"),
  Order_ID: 'OD009',
  Order_Review_Note: 'Absolutely great, no complaints at all!'
},
{
  _id: ObjectId("6785147268a52a9e40fdc400"),
  Order_ID: 'OD010',
  Order_Review_Note: 'The quality was subpar, I expected more.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc401"),
  Order_ID: 'OD011',
  Order_Review_Note: 'Overall good, but packaging could be improved.'
},
{
  _id: ObjectId("6785147268a52a9e40fdc402"),
  Order_ID: 'OD012',
  Order_Review_Note: 'Satisfactory, but could have been more responsive.'
}
]
```

3.15.1 Query to View Inserted Data into the ‘Supplier_Information’ Collection

```
fm_clothing_store_mongo_1> db.Supplier_Information.find()
[
  {
    _id: ObjectId("678514a968a52a9e40fdc403"),
    Supplier_ID: 'S001',
    Supplier_Name: 'Global Fashion Co.',
    Product_ID: 'P001'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc404"),
    Supplier_ID: 'S001',
    Supplier_Name: 'Global Fashion Co.',
    Product_ID: 'P002'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc405"),
    Supplier_ID: 'S002',
    Supplier_Name: 'Urban Trendz',
    Product_ID: 'P003'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc406"),
    Supplier_ID: 'S003',
    Supplier_Name: 'Cotton Soft Ltd.',
    Product_ID: 'P004'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc407"),
    Supplier_ID: 'S003',
    Supplier_Name: 'Cotton Soft Ltd.',
    Product_ID: 'P005'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc408"),
    Supplier_ID: 'S004',
    Supplier_Name: 'SportPro Inc.',
    Product_ID: 'P006'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc409"),
    Supplier_ID: 'S004',
    Supplier_Name: 'SportPro Inc.',
    Product_ID: 'P007'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40a"),
    Supplier_ID: 'S005',
    Supplier_Name: 'BabyCare',
    Product_ID: 'P008'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40b"),
    Supplier_ID: 'S006',
    Supplier_Name: 'Kids Apparel Co.',
    Product_ID: 'P009'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40c"),
    Supplier_ID: 'S007',
    Supplier_Name: 'Home Comforts',
    Product_ID: 'P010'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40d"),
    Supplier_ID: 'S008',
    Supplier_Name: 'Nike Sportswear',
    Product_ID: 'P011'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40e"),
    Supplier_ID: 'S009',
    Supplier_Name: 'Beauty Naturals',
    Product_ID: 'P012'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc40f"),
    Supplier_ID: 'S001',
    Supplier_Name: 'Global Fashion Co.',
    Product_ID: 'P019'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc410"),
    Supplier_ID: 'S002',
    Supplier_Name: 'Urban Trendz',
    Product_ID: 'P021'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc411"),
    Supplier_ID: 'S003',
    Supplier_Name: 'Cotton Soft Ltd.',
    Product_ID: 'P032'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc412"),
    Supplier_ID: 'S004',
    Supplier_Name: 'SportPro Inc.',
    Product_ID: 'P036'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc413"),
    Supplier_ID: 'S005',
    Supplier_Name: 'BabyCare',
    Product_ID: 'P039'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc414"),
    Supplier_ID: 'S006',
    Supplier_Name: 'Kids Apparel Co.',
    Product_ID: 'P041'
  },
]
```

3.15.2 ‘Supplier_Information’ Collection (contd...)

```
{
  _id: ObjectId("678514a968a52a9e40fdc415"),
  Supplier_ID: 'S007',
  Supplier_Name: 'Home Comforts',
  Product_ID: 'P042'
},
{
  _id: ObjectId("678514a968a52a9e40fdc416"),
  Supplier_ID: 'S008',
  Supplier_Name: 'Nike Sportswear',
  Product_ID: 'P055'
}
]
Type "it" for more
fm_clothing_store_mongo_1> it
[
  {
    _id: ObjectId("678514a968a52a9e40fdc417"),
    Supplier_ID: 'S009',
    Supplier_Name: 'Beauty Naturals',
    Product_ID: 'P061'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc418"),
    Supplier_ID: 'S001',
    Supplier_Name: 'Global Fashion Co.',
    Product_ID: 'P020'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc419"),
    Supplier_ID: 'S002',
    Supplier_Name: 'Urban Trendz',
    Product_ID: 'P031'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc41a"),
    Supplier_ID: 'S003',
    Supplier_Name: 'Cotton Soft Ltd.',
    Product_ID: 'P033'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc41b"),
    Supplier_ID: 'S004',
    Supplier_Name: 'SportPro Inc.',
    Product_ID: 'P054'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc41c"),
    Supplier_ID: 'S005',
    Supplier_Name: 'BabyCare',
    Product_ID: 'P056'
  },
  {
    _id: ObjectId("678514a968a52a9e40fdc41d"),
    Supplier_ID: 'S006',
    Supplier_Name: 'Kids Apparel Co.',
    Product_ID: 'P067'
  }
]
```

3.16.1 Query to View Inserted Data into the ‘Manufacturing_Information’ Collection

```
fm_clothing_store_mongo_1> db.Manufacturing_Information.find()
[
{
  _id: ObjectId("678514d168a52a9e40fdc41e"),
  Manufacturing_ID: 'M001',
  Product_ID: 'P001',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc41f"),
  Manufacturing_ID: 'M001',
  Product_ID: 'P002',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc420"),
  Manufacturing_ID: 'M002',
  Product_ID: 'P003',
  Manufacturing_Location: 'India'
},
{
  _id: ObjectId("678514d168a52a9e40fdc421"),
  Manufacturing_ID: 'M003',
  Product_ID: 'P004',
  Manufacturing_Location: 'Bangladesh'
},
{
  _id: ObjectId("678514d168a52a9e40fdc422"),
  Manufacturing_ID: 'M003',
  Product_ID: 'P005',
  Manufacturing_Location: 'Bangladesh'
},
{
  _id: ObjectId("678514d168a52a9e40fdc423"),
  Manufacturing_ID: 'M004',
  Product_ID: 'P006',
  Manufacturing_Location: 'Vietnam'
},
{
  _id: ObjectId("678514d168a52a9e40fdc424"),
  Manufacturing_ID: 'M004',
  Product_ID: 'P007',
  Manufacturing_Location: 'Vietnam'
},
{
  _id: ObjectId("678514d168a52a9e40fdc425"),
  Manufacturing_ID: 'M005',
  Product_ID: 'P008',
  Manufacturing_Location: 'India'
},
{
  _id: ObjectId("678514d168a52a9e40fdc426"),
  Manufacturing_ID: 'M006',
  Product_ID: 'P009',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc427"),
  Manufacturing_ID: 'M007',
  Product_ID: 'P010',
  Manufacturing_Location: 'Turkey'
},
{
  _id: ObjectId("678514d168a52a9e40fdc428"),
  Manufacturing_ID: 'M008',
  Product_ID: 'P011',
  Manufacturing_Location: 'USA'
},
{
  _id: ObjectId("678514d168a52a9e40fdc429"),
  Manufacturing_ID: 'M009',
  Product_ID: 'P012',
  Manufacturing_Location: 'South Korea'
},
{
  _id: ObjectId("678514d168a52a9e40fdc42a"),
  Manufacturing_ID: 'M010',
  Product_ID: 'P019',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc42b"),
  Manufacturing_ID: 'M011',
  Product_ID: 'P021',
  Manufacturing_Location: 'India'
},
{
  _id: ObjectId("678514d168a52a9e40fdc42c"),
  Manufacturing_ID: 'M012',
  Product_ID: 'P032',
  Manufacturing_Location: 'Bangladesh'
},
{
  _id: ObjectId("678514d168a52a9e40fdc42d"),
  Manufacturing_ID: 'M013',
  Product_ID: 'P036',
  Manufacturing_Location: 'Vietnam'
},
{
  _id: ObjectId("678514d168a52a9e40fdc42e"),
  Manufacturing_ID: 'M014',
  Product_ID: 'P039',
  Manufacturing_Location: 'India'
},
```

3.16.2 ‘Manufacturing_Information’ Collection (contd...)

```
{
  _id: ObjectId("678514d168a52a9e40fdc42f"),
  Manufacturing_ID: 'M015',
  Product_ID: 'P041',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc430"),
  Manufacturing_ID: 'M016',
  Product_ID: 'P042',
  Manufacturing_Location: 'Turkey'
},
{
  _id: ObjectId("678514d168a52a9e40fdc431"),
  Manufacturing_ID: 'M017',
  Product_ID: 'P055',
  Manufacturing_Location: 'USA'
}

Type "it" for more
m_clothing_store_mongo_1> it

{
  _id: ObjectId("678514d168a52a9e40fdc432"),
  Manufacturing_ID: 'M018',
  Product_ID: 'P061',
  Manufacturing_Location: 'South Korea'
},
{
  _id: ObjectId("678514d168a52a9e40fdc433"),
  Manufacturing_ID: 'M019',
  Product_ID: 'P020',
  Manufacturing_Location: 'Bangladesh'
},
{
  _id: ObjectId("678514d168a52a9e40fdc434"),
  Manufacturing_ID: 'M020',
  Product_ID: 'P031',
  Manufacturing_Location: 'India'
},
{
  _id: ObjectId("678514d168a52a9e40fdc435"),
  Manufacturing_ID: 'M021',
  Product_ID: 'P033',
  Manufacturing_Location: 'Vietnam'
},
{
  _id: ObjectId("678514d168a52a9e40fdc436"),
  Manufacturing_ID: 'M022',
  Product_ID: 'P054',
  Manufacturing_Location: 'China'
},
{
  _id: ObjectId("678514d168a52a9e40fdc437"),
  Manufacturing_ID: 'M023',
  Product_ID: 'P056',
  Manufacturing_Location: 'India'
},
{
  _id: ObjectId("678514d168a52a9e40fdc438"),
  Manufacturing_ID: 'M024',
  Product_ID: 'P067',
  Manufacturing_Location: 'South Korea'
}
```

3.17.1 Query to View Inserted Data into the ‘Product_Brands’ Collection

```
fm_clothing_store_mongo_1> db.Product_Brands.find()
[
  {
    _id: ObjectId("678514fc68a52a9e40fdc439"),
    Product_ID: 'P001',
    Brand_Name: 'Adidas'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43a"),
    Product_ID: 'P002',
    Brand_Name: 'Adidas'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43b"),
    Product_ID: 'P003',
    Brand_Name: 'H&M'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43c"),
    Product_ID: 'P004',
    Brand_Name: "Levi's"
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43d"),
    Product_ID: 'P005',
    Brand_Name: "Levi's"
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43e"),
    Product_ID: 'P006',
    Brand_Name: 'Puma'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc43f"),
    Product_ID: 'P007',
    Brand_Name: 'Puma'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc440"),
    Product_ID: 'P008',
    Brand_Name: 'Johnson & Johnson'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc441"),
    Product_ID: 'P009',
    Brand_Name: 'Gap Kids'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc442"),
    Product_ID: 'P010',
    Brand_Name: 'IKEA'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc443"),
    Product_ID: 'P011',
    Brand_Name: 'Nike'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc444"),
    Product_ID: 'P012',
    Brand_Name: 'The Body Shop'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc445"),
    Product_ID: 'P019',
    Brand_Name: 'Zara'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc446"),
    Product_ID: 'P021',
    Brand_Name: 'Forever 21'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc447"),
    Product_ID: 'P032',
    Brand_Name: 'Uniqlo'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc448"),
    Product_ID: 'P036',
    Brand_Name: 'Reebok'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc449"),
    Product_ID: 'P039',
    Brand_Name: 'Mothercare'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc44a"),
    Product_ID: 'P041',
    Brand_Name: 'Old Navy'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc44b"),
    Product_ID: 'P042',
    Brand_Name: 'Pottery Barn'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc44c"),
    Product_ID: 'P055',
    Brand_Name: 'Under Armour'
  }
]
```

3.17.2 ‘Product_Brands’ Collection (contd...)

```
Type "it" for more
fm_clothing_store_mongo_1> it
[
  {
    _id: ObjectId("678514fc68a52a9e40fdc44d"),
    Product_ID: 'P061',
    Brand_Name: 'Dove'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc44e"),
    Product_ID: 'P020',
    Brand_Name: 'Wrangler'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc44f"),
    Product_ID: 'P031',
    Brand_Name: 'American Eagle'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc450"),
    Product_ID: 'P033',
    Brand_Name: 'GAP'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc451"),
    Product_ID: 'P054',
    Brand_Name: 'Columbia'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc452"),
    Product_ID: 'P056',
    Brand_Name: 'Himalaya'
  },
  {
    _id: ObjectId("678514fc68a52a9e40fdc453"),
    Product_ID: 'P067',
    Brand_Name: 'The North Face'
  }
]
```

3.18 Query to View Inserted Data into the ‘Supplier_Contact_Information’ Collection

```
fm_clothing_store_mongo_1> db.Supplier_Contact_Information.find()
[
  {
    _id: ObjectId("6785154168a52a9e40fdc454"),
    Supplier_ID: 'S001',
    Contact_Info: 'contact@globalfashion.com',
    Product_ID: 'P001'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc455"),
    Supplier_ID: 'S001',
    Contact_Info: 'contact@globalfashion.com',
    Product_ID: 'P002'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc456"),
    Supplier_ID: 'S002',
    Contact_Info: 'support@urbantrndz.com',
    Product_ID: 'P003'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc457"),
    Supplier_ID: 'S003',
    Contact_Info: 'info@cottonsoft.com',
    Product_ID: 'P004'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc458"),
    Supplier_ID: 'S003',
    Contact_Info: 'info@cottonsoft.com',
    Product_ID: 'P005'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc459"),
    Supplier_ID: 'S004',
    Contact_Info: 'sales@sportpro.com',
    Product_ID: 'P006'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45a"),
    Supplier_ID: 'S004',
    Contact_Info: 'sales@sportpro.com',
    Product_ID: 'P007'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45b"),
    Supplier_ID: 'S005',
    Contact_Info: 'help@babycare.com',
    Product_ID: 'P008'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45c"),
    Supplier_ID: 'S006',
    Contact_Info: 'info@kidsapparel.com',
    Product_ID: 'P009'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45d"),
    Supplier_ID: 'S007',
    Contact_Info: 'customer@homecomforts.com',
    Product_ID: 'P010'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45e"),
    Supplier_ID: 'S008',
    Contact_Info: 'contact@nike.com',
    Product_ID: 'P011'
  },
  {
    _id: ObjectId("6785154168a52a9e40fdc45f"),
    Supplier_ID: 'S009',
    Contact_Info: 'support@beautynaturals.com',
    Product_ID: 'P012'
  }
]
```

3.19 Query to View Inserted Data into the ‘Branch_Location’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Location.find()
[
  {
    _id: ObjectId("6785156e68a52a9e40fdc460"),
    Branch_ID: '001',
    Branch_Address: '15 Red Cross Road, Waterlooville, W01 2SP'
  },
  {
    _id: ObjectId("6785156e68a52a9e40fdc461"),
    Branch_ID: '002',
    Branch_Address: '12 Buckingham Street, Fareham, FO2 3ST'
  },
  {
    _id: ObjectId("6785156e68a52a9e40fdc462"),
    Branch_ID: '003',
    Branch_Address: 'Lake View Street, Gosport, GO3 2FG'
  },
  {
    _id: ObjectId("6785156e68a52a9e40fdc463"),
    Branch_ID: '004',
    Branch_Address: '4 Harleys Street, Havant, HP1 2FP'
  },
  {
    _id: ObjectId("6785156e68a52a9e40fdc464"),
    Branch_ID: '005',
    Branch_Address: 'Harrow Road, Chichester, CH2 4GK'
  }
]
```

3.20 Query to View Inserted Data into the ‘Branch_Establishment’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Establishment.find()
[
  {
    _id: ObjectId("678515a868a52a9e40fdc465"),
    Branch_ID: '001',
    Branch_Year: 2000
  },
  {
    _id: ObjectId("678515a868a52a9e40fdc466"),
    Branch_ID: '002',
    Branch_Year: 2001
  },
  {
    _id: ObjectId("678515a868a52a9e40fdc467"),
    Branch_ID: '003',
    Branch_Year: 2002
  },
  {
    _id: ObjectId("678515a868a52a9e40fdc468"),
    Branch_ID: '004',
    Branch_Year: 2003
  },
  {
    _id: ObjectId("678515a868a52a9e40fdc469"),
    Branch_ID: '005',
    Branch_Year: 2000
  }
]
```

3.21 Query to View Inserted Data into the ‘Branch_Contact’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Contact.find()
[
  {
    _id: ObjectId("678515d568a52a9e40fdc46a"),
    Branch_ID: '001',
    Branch_Email: 'waterlooville@fmstores.com'
  },
  {
    _id: ObjectId("678515d568a52a9e40fdc46b"),
    Branch_ID: '002',
    Branch_Email: 'fareham@fmstores.com'
  },
  {
    _id: ObjectId("678515d568a52a9e40fdc46c"),
    Branch_ID: '003',
    Branch_Email: 'gosport@fmstores.com'
  },
  {
    _id: ObjectId("678515d568a52a9e40fdc46d"),
    Branch_ID: '004',
    Branch_Email: 'havant@fmstores.com'
  },
  {
    _id: ObjectId("678515d568a52a9e40fdc46e"),
    Branch_ID: '005',
    Branch_Email: 'chichester@fmstores.com'
  }
]
```

3.22 Query to View Inserted Data into the ‘Branch_Phone’ Collection

```
fm_clothing_store_mongo_1> db.Branch_Phone.find()
[  
 {  
   _id: ObjectId("6785160b68a52a9e40fdc46f"),  
   Branch_ID: '001',  
   Branch_Phone: '+44-1234-567001'  
 },  
 {  
   _id: ObjectId("6785160b68a52a9e40fdc470"),  
   Branch_ID: '002',  
   Branch_Phone: '+44-1234-567002'  
 },  
 {  
   _id: ObjectId("6785160b68a52a9e40fdc471"),  
   Branch_ID: '003',  
   Branch_Phone: '+44-1234-567003'  
 },  
 {  
   _id: ObjectId("6785160b68a52a9e40fdc472"),  
   Branch_ID: '004',  
   Branch_Phone: '+44-1234-567004'  
 },  
 {  
   _id: ObjectId("6785160b68a52a9e40fdc473"),  
   Branch_ID: '005',  
   Branch_Phone: '+44-1234-567005'  
 }]
```

TASK-2

1. Product Stock and Availability Across Branches

```

fm_clothing_store_mongo_1> db.Product_Stock.aggregate([
... {
...   $lookup: {
...     from: "Branch",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "BranchDetails"
...   }
... },
... { $unwind: "$BranchDetails" },
... {
...   $lookup: {
...     from: "Product",
...     localField: "Product_ID",
...     foreignField: "Product_ID",
...     as: "ProductDetails"
...   }
... },
... { $unwind: "$ProductDetails" },
... {
...   $lookup: {
...     from: "Supplier_Information",
...     localField: "Product_ID",
...     foreignField: "Product_ID",
...     as: "SupplierInfo"
...   }
... },
... { $unwind: "$SupplierInfo" },
... {
...   $lookup: {
...     from: "Supplier_Contact_Information",
...     localField: "SupplierInfo.Supplier_ID",
...     foreignField: "Supplier_ID",
...     as: "SupplierContact"
...   }
... },
... { $unwind: "$SupplierContact" },
... {
...   $lookup: {
...     from: "Manufacturing_Information",
...     localField: "Product_ID",
...     foreignField: "Product_ID",
...     as: "ManufacturingInfo"
...   }
... },
... { $unwind: "$ManufacturingInfo" },
... {
...   $project: {
...     _id: 0,
...     Product_ID: 1,
...     Branch_ID: 1,
...     Product_Description: "$ProductDetails.Product_Description",
...     Size: "$ProductDetails.Size",
...     Branch_Name: "$BranchDetails.Branch_Name",
...     City: "$BranchDetails.City",
...     Stock_Quantity: 1,
...     Supplier_Name: "$SupplierInfo.Supplier_Name",
...     Contact_Info: "$SupplierContact.Contact_Info",
...     Manufacturing_Location: "$ManufacturingInfo.Manufacturing_Location"
...   }
... },
... {
...   $group: {
...     _id: { Product_ID: "$Product_ID", Branch_ID: "$Branch_ID" },
...     Product_Description: { $first: "$Product_Description" },
...     Size: { $first: "$Size" },
...     Branch_Name: { $first: "$Branch_Name" },
...     City: { $first: "$City" },
...     Stock_Quantity: { $first: "$Stock_Quantity" },
...     Supplier_Name: { $first: "$Supplier_Name" },
...     Contact_Info: { $first: "$Contact_Info" },
...     Manufacturing_Location: { $first: "$Manufacturing_Location" }
...   }
... },
... {
...   $project: {
...     _id: 0,
...     Product_ID: "$_id.Product_ID",
...     Branch_ID: "$_id.Branch_ID",
...     Product_Description: 1,
...     Size: 1,
...     Branch_Name: 1,
...     City: 1,
...     Stock_Quantity: 1,
...     Supplier_Name: 1,
...     Contact_Info: 1,
...     Manufacturing_Location: 1
...   }
... },
... {
...   $sort: { Product_ID: 1, Branch_ID: 1 }
... },
... { $limit: 8 }
... ]).pretty();

```

Output of Query 1:

```
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Small',
  Branch_Name: 'FM Waterlooville Clothing Store',
  City: 'Waterlooville',
  Stock_Quantity: 50,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P001',
  Branch_ID: '001'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Small',
  Branch_Name: 'FM Fareham Clothing Store',
  City: 'Fareham',
  Stock_Quantity: 30,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P001',
  Branch_ID: '002'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Small',
  Branch_Name: 'FM Gosport Clothing Store',
  City: 'Gosport',
  Stock_Quantity: 10,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P001',
  Branch_ID: '003'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Small',
  Branch_Name: 'FM Havant Clothing Store',
  City: 'Havant',
  Stock_Quantity: 70,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P001',
  Branch_ID: '004'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Small',
  Branch_Name: 'FM Chichester Clothing Store',
  City: 'Chichester',
  Stock_Quantity: 10,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P001',
  Branch_ID: '005'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Medium',
  Branch_Name: 'FM Waterlooville Clothing Store',
  City: 'Waterlooville',
  Stock_Quantity: 30,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P002',
  Branch_ID: '001'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Medium',
  Branch_Name: 'FM Fareham Clothing Store',
  City: 'Fareham',
  Stock_Quantity: 40,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P002',
  Branch_ID: '002'
},
{
  Product_Description: 'Yellow Hoodie',
  Size: 'Medium',
  Branch_Name: 'FM Gosport Clothing Store',
  City: 'Gosport',
  Stock_Quantity: 10,
  Supplier_Name: 'Global Fashion Co.',
  Contact_Info: 'contact@globalfashion.com',
  Manufacturing_Location: 'China',
  Product_ID: 'P002',
  Branch_ID: '003'
}
]
```

2. Delivery Order History with Payment and Logistics Details

```

fm_clothing_store_mongo_1> db.Delivery.aggregate([
...   {
...     $lookup: {
...       from: "Orders",
...       localField: "Order_ID",
...       foreignField: "Order_ID",
...       as: "OrderDetails"
...     }
...   },
...   {
...     $unwind: "$OrderDetails"
...   },
...   {
...     $lookup: {
...       from: "Branch",
...       localField: "Branch_ID",
...       foreignField: "Branch_ID",
...       as: "BranchDetails"
...     }
...   },
...   {
...     $unwind: "$BranchDetails"
...   },
...   {
...     $lookup: {
...       from: "Delivery_Person_Information",
...       localField: "Delivery_ID",
...       foreignField: "Delivery_ID",
...       as: "DeliveryPersonDetails"
...     }
...   },
...   {
...     $unwind: "$DeliveryPersonDetails"
...   },
...   {
...     $lookup: {
...       from: "Delivery_Company_Information",
...       localField: "Delivery_ID",
...       foreignField: "Delivery_ID",
...       as: "DeliveryCompanyDetails"
...     }
...   },
...   {
...     $unwind: "$DeliveryCompanyDetails"
...   },
...   {
...     $lookup: {
...       from: "Delivery_Payment_Information",
...       localField: "Delivery_ID",
...       foreignField: "Delivery_ID",
...       as: "PaymentDetails"
...     }
...   },
...   {
...     $unwind: "$PaymentDetails"
...   },
...   {
...     $project: {
...       _id: 0,
...       Delivery_ID: 1,
...       Order_ID: 1,
...       Delivery_Date: 1,
...       Delivery_Address: 1,
...       "OrderDetails.Order_Details": 1,
...       Total_Amount: "$OrderDetails.Total_Amount",
...       Branch_Name: "$BranchDetails.Branch_Name",
...       Delivery_Person_Name: "$DeliveryPersonDetails.Delivery_Person_Name",
...       Delivery_Person_Contact_NO: "$DeliveryPersonDetails.Delivery_Person_Contact_NO",
...       Delivery_Company: "$DeliveryCompanyDetails.Delivery_Company",
...       Delivery_Cost: "$DeliveryCompanyDetails.Delivery_Cost",
...       Payment_Status: "$PaymentDetails.Delivery_Payment"
...     }
...   },
...   {
...     $sort: { Delivery_ID: 1 }
...   },
...   { $limit: 5 }
... ]).pretty();

```

Output of Query 2:

```
[
  {
    Delivery_ID: 'DL01',
    Order_ID: 'OD001',
    Delivery_Date: '2024-09-03',
    Delivery_Address: 'Harrow, LO1 2SP',
    OrderDetails: {
      Order_Details: [
        { Product_ID: 'P002', Quantity: 1, Price_Per_Item: 20 },
        { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15 }
      ]
    },
    Total_Amount: 35,
    Branch_Name: 'FM Waterlooville Clothing Store',
    Delivery_Person_Name: 'John Doe',
    Delivery_Person_Contact_NO: '123-456-7890',
    Delivery_Company: 'FastTrack Logistics',
    Delivery_Cost: 10,
    Payment_Status: 'Paid'
  },
  {
    Delivery_ID: 'DL02',
    Order_ID: 'OD005',
    Delivery_Date: '2024-10-03',
    Delivery_Address: 'Upon Thames, LO2 3PG',
    OrderDetails: {
      Order_Details: [
        { Product_ID: 'P008', Quantity: 1, Price_Per_Item: 8 },
        { Product_ID: 'P009', Quantity: 1, Price_Per_Item: 10 }
      ]
    },
    Total_Amount: 18,
    Branch_Name: 'FM Havant Clothing Store',
    Delivery_Person_Name: 'Jane Smith',
    Delivery_Person_Contact_NO: '234-567-8901',
    Delivery_Company: 'QuickShip Couriers',
    Delivery_Cost: 8,
    Payment_Status: 'Pending'
  },
  {
    Delivery_ID: 'DL03',
    Order_ID: 'OD006',
    Delivery_Date: '2024-10-08',
    Delivery_Address: 'UOC Headquarter, CM2 5BJ',
    OrderDetails: {
      Order_Details: [
        { Product_ID: 'P006', Quantity: 1, Price_Per_Item: 100 },
        { Product_ID: 'P007', Quantity: 1, Price_Per_Item: 70 }
      ]
    },
    Total_Amount: 170,
    Branch_Name: 'FM Chichester Clothing Store',
    Delivery_Person_Name: 'Alice Brown',
    Delivery_Person_Contact_NO: '345-678-9012',
    Delivery_Company: 'ShipFast Delivery',
    Delivery_Cost: 12,
    Payment_Status: 'Paid'
  },
  {
    Delivery_ID: 'DL04',
    Order_ID: 'OD007',
    Delivery_Date: '2024-10-14',
    Delivery_Address: 'Central Park, LO4 BG',
    OrderDetails: {
      Order_Details: [
        { Product_ID: 'P001', Quantity: 1, Price_Per_Item: 20 },
        { Product_ID: 'P003', Quantity: 1, Price_Per_Item: 15 }
      ]
    },
    Total_Amount: 35,
    Branch_Name: 'FM Waterlooville Clothing Store',
    Delivery_Person_Name: 'Bob White',
    Delivery_Person_Contact_NO: '456-789-0123',
    Delivery_Company: 'FastTrack Logistics',
    Delivery_Cost: 10,
    Payment_Status: 'Paid'
  },
  {
    Delivery_ID: 'DL05',
    Order_ID: 'OD009',
    Delivery_Date: '2024-10-30',
    Delivery_Address: 'Harrow, LO1 2SP',
    OrderDetails: {
      Order_Details: [ { Product_ID: 'P002', Quantity: 2, Price_Per_Item: 20 } ]
    },
    Total_Amount: 40,
    Branch_Name: 'FM Havant Clothing Store',
    Delivery_Person_Name: 'Charlie Green',
    Delivery_Person_Contact_NO: '567-890-1234',
    Delivery_Company: 'QuickShip Couriers',
    Delivery_Cost: 8,
    Payment_Status: 'Paid'
  }
]
```

3. Product Purchasing Records with Customer and Payment Insights

```
fm_clothing_store_mongo_1> db.Orders.aggregate([
...   {
...     $lookup: {
...       from: "Branch",
...       localField: "Branch_ID",
...       foreignField: "Branch_ID",
...       as: "BranchDetails"
...     }
...   },
...   {
...     $unwind: "$BranchDetails"
...   },
...   {
...     $lookup: {
...       from: "Customer",
...       localField: "Customer_ID",
...       foreignField: "Customer_ID",
...       as: "CustomerDetails"
...     }
...   },
...   {
...     $unwind: "$CustomerDetails"
...   },
...   {
...     $lookup: {
...       from: "Payment_Information",
...       localField: "Order_ID",
...       foreignField: "Order_ID",
...       as: "PaymentDetails"
...     }
...   },
...   {
...     $unwind: "$PaymentDetails"
...   },
...   {
...     $lookup: {
...       from: "Order_Reviews",
...       localField: "Order_ID",
...       foreignField: "Order_ID",
...       as: "ReviewDetails"
...     }
...   },
...   {
...     $unwind: "$ReviewDetails"
...   },
...   {
...     $lookup: {
...       from: "Order_Feedback",
...       localField: "Order_ID",
...       foreignField: "Order_ID",
...       as: "FeedbackDetails"
...     }
...   },
...   {
...     $unwind: "$FeedbackDetails"
...   },
...   {
...     $project: {
...       _id: 0,
...       Order_ID: 1,
...       Order_Date: 1,
...       Total_Amount: 1,
...       Payment_Method: 1,
...       Delivery_Method: 1,
...       Order_Details: 1,
...       Branch_Name: "$BranchDetails.Branch_Name",
...       City: "$BranchDetails.City",
...       Customer_First_Name: "$CustomerDetails.First_Name",
...       Customer_Last_Name: "$CustomerDetails.Last_Name",
...       Customer_Email: "$CustomerDetails.Email",
...       Customer_Phone: "$CustomerDetails.Phone",
...       Transaction_ID: "$PaymentDetails.Transaction_ID",
...       Order_Rating: "$ReviewDetails.Order_Rating",
...       Order_Review_Note: "$FeedbackDetails.Order_Review_Note"
...     }
...   },
...   {
...     $sort: { Order_ID: 1 }
...   },
...   { $limit: 5 }
... ]).pretty();
```

Output of Query 3:

```
[{"_id": {"$oid": "64d0f3e0c0a0000000000001"}, "Order_ID": "OD001", "Order_Date": "2024-09-01", "Total_Amount": 35, "Payment_Method": "Online", "Delivery_Method": "Home Delivery", "Order_Details": [{"Product_ID": "P002", "Quantity": 1, "Price_Per_Item": 20}, {"Product_ID": "P003", "Quantity": 1, "Price_Per_Item": 15}], "Branch_Name": "FM Waterlooville Clothing Store", "City": "Waterlooville", "Customer_First_Name": "Angelo", "Customer_Last_Name": "Thomson", "Customer_Email": "at123@gmail.com", "Customer_Phone": "0123456789", "Transaction_ID": "TX100001", "Order_Rating": 4, "Order_Review_Note": "Good quality, satisfied with the order."}, {"_id": {"$oid": "64d0f3e0c0a0000000000002"}, "Order_ID": "OD002", "Order_Date": "2024-09-05", "Total_Amount": 20, "Payment_Method": "Cash", "Delivery_Method": "Store Pickup", "Order_Details": [{"Product_ID": "P001", "Quantity": 1, "Price_Per_Item": 20}], "Branch_Name": "FM Fareham Clothing Store", "City": "Fareham", "Customer_First_Name": "Angelo", "Customer_Last_Name": "Thomson", "Customer_Email": "at123@gmail.com", "Customer_Phone": "0123456789", "Transaction_ID": "TX100002", "Order_Rating": 5, "Order_Review_Note": "Excellent service and fast delivery!"}, {"_id": {"$oid": "64d0f3e0c0a0000000000003"}, "Order_ID": "OD003", "Order_Date": "2024-09-12", "Total_Amount": 35, "Payment_Method": "Cash", "Delivery_Method": "Store Pickup", "Order_Details": [{"Product_ID": "P001", "Quantity": 1, "Price_Per_Item": 20}, {"Product_ID": "P003", "Quantity": 1, "Price_Per_Item": 15}], "Branch_Name": "FM Chichester Clothing Store", "City": "Chichester", "Customer_First_Name": "Gary", "Customer_Last_Name": "Mehigan", "Customer_Email": "gm321@gmail.com", "Customer_Phone": "9874561230", "Transaction_ID": "TX100003", "Order_Rating": 3, "Order_Review_Note": "Decent, but there is room for improvement."}, {"_id": {"$oid": "64d0f3e0c0a0000000000004"}, "Order_ID": "OD004", "Order_Date": "2024-09-30", "Total_Amount": 40, "Payment_Method": "Cash", "Delivery_Method": "Store Pickup", "Order_Details": [{"Product_ID": "P002", "Quantity": 2, "Price_Per_Item": 20}], "Branch_Name": "FM Gosport Clothing Store", "City": "Gosport", "Customer_First_Name": "Mike", "Customer_Last_Name": "Paul", "Customer_Email": "mp123@gmail.com", "Customer_Phone": "0147852369", "Transaction_ID": "TX100004", "Order_Rating": 2, "Order_Review_Note": "Not happy with the product. Expected better quality."}, {"_id": {"$oid": "64d0f3e0c0a0000000000005"}, "Order_ID": "OD005", "Order_Date": "2024-09-30", "Total_Amount": 18, "Payment_Method": "Online", "Delivery_Method": "Home Delivery", "Order_Details": [{"Product_ID": "P008", "Quantity": 1, "Price_Per_Item": 8}, {"Product_ID": "P009", "Quantity": 1, "Price_Per_Item": 10}], "Branch_Name": "FM Havant Clothing Store", "City": "Havant", "Customer_First_Name": "Sara", "Customer_Last_Name": "Ali", "Customer_Email": "sa123@gmail.com", "Customer_Phone": "3698520147", "Transaction_ID": "TX100005", "Order_Rating": 5, "Order_Review_Note": "Perfect, highly recommend this product!"}]
```

fm_clothing_store_mongo_1> █

4. Category-Wise Product Details Including Suppliers and Manufacturing Information

```

fm_clothing_store_mongo_1> db.Product.aggregate([
...   {
...     $match: {
...       "Category.Category_Name": { $in: ["Men", "Women"] }
...     }
...   },
...   {
...     $lookup: {
...       from: "Supplier_Information",
...       localField: "Product_ID",
...       foreignField: "Product_ID",
...       as: "supplier_info"
...     }
...   },
...   {
...     $lookup: {
...       from: "Manufacturing_Information",
...       localField: "Product_ID",
...       foreignField: "Product_ID",
...       as: "manufacturing_info"
...     }
...   },
...   {
...     $lookup: {
...       from: "Product_Brands",
...       localField: "Product_ID",
...       foreignField: "Product_ID",
...       as: "brand_info"
...     }
...   },
...   {
...     $unwind: "$supplier_info" },
...   { $unwind: "$manufacturing_info" },
...   { $unwind: "$brand_info" },
...   {
...     $group: {
...       _id: "$Category.Category_Name",
...       count: { $sum: 1 },
...       products: { $push: {
...         Product_ID: "$Product_ID",
...         Product_Description: "$Product_Description",
...         Size: "$Size",
...         Composition: "$Composition",
...         Price: "$Price",
...         Supplier_Name: "$supplier_info.Supplier_Name",
...         Manufacturing_Location: "$manufacturing_info.Manufacturing_Location",
...         Brand_Name: "$brand_info.Brand_Name"
...       } }
...     }
...   },
...   {
...     $sort: { count: -1 } // Sort in descending order of count
...   },
...   {
...     $project: {
...       _id: 0,
...       result: {
...         Category_Name: "$_id",
...         count: "$count",
...         products: "$products"
...       }
...     }
...   },
...   {
...     $replaceRoot: { newRoot: "$result" }
...   }
... ]);

```

Output of Query 4 (Part 1):

```
[
  {
    Category_Name: 'Men',
    count: 13,
    products: [
      {
        Product_ID: 'P001',
        Product_Description: 'Yellow Hoodie',
        Size: 'Small',
        Composition: '100% Woolen',
        Price: 20,
        Supplier_Name: 'Global Fashion Co.',
        Manufacturing_Location: 'China',
        Brand_Name: 'Adidas'
      },
      {
        Product_ID: 'P002',
        Product_Description: 'Yellow Hoodie',
        Size: 'Medium',
        Composition: '100% Woolen',
        Price: 20,
        Supplier_Name: 'Global Fashion Co.',
        Manufacturing_Location: 'China',
        Brand_Name: 'Adidas'
      },
      {
        Product_ID: 'P003',
        Product_Description: 'Black Jeans',
        Size: 'Large',
        Composition: 'Denim',
        Price: 15,
        Supplier_Name: 'Urban Trendz',
        Manufacturing_Location: 'India',
        Brand_Name: 'H&M'
      },
      {
        Product_ID: 'P011',
        Product_Description: 'Nike Sneakers',
        Size: '7',
        Composition: 'Air Max Sports Shoe',
        Price: 80,
        Supplier_Name: 'Nike Sportswear',
        Manufacturing_Location: 'USA',
        Brand_Name: 'Nike'
      },
      {
        Product_ID: 'P019',
        Product_Description: 'Graphic T-Shirt',
        Size: 'Large',
        Composition: '100% Cotton',
        Price: 15,
        Supplier_Name: 'Global Fashion Co.',
        Manufacturing_Location: 'China',
        Brand_Name: 'Zara'
      },
      {
        Product_ID: 'P021',
        Product_Description: 'Leather Wallet',
        Size: 'One Size',
        Composition: 'Genuine Leather',
        Price: 40,
        Supplier_Name: 'Urban Trendz',
        Manufacturing_Location: 'India',
        Brand_Name: 'Forever 21'
      },
      {
        Product_ID: 'P032',
        Product_Description: 'Beach Shorts',
        Size: 'Large',
        Composition: 'Polyester',
        Price: 20,
        Supplier_Name: 'Cotton Soft Ltd.',
        Manufacturing_Location: 'Bangladesh',
        Brand_Name: 'Uniqlo'
      },
      {
        Product_ID: 'P036',
        Product_Description: 'Analog Watch',
        Size: 'One Size',
        Composition: 'Leather Strap',
        Price: 100,
        Supplier_Name: 'SportPro Inc.',
        Manufacturing_Location: 'Vietnam',
        Brand_Name: 'Reebok'
      },
      {
        Product_ID: 'P039',
        Product_Description: 'Leather Belt',
        Size: '34',
        Composition: 'Leather',
        Price: 20,
        Supplier_Name: 'BabyCare',
        Manufacturing_Location: 'India',
        Brand_Name: 'Mothercare'
      }
    ]
  }
]
```

Output of Query 4 (Part 2):

```
{
  Product_ID: 'P041',
  Product_Description: 'Cotton Socks',
  Size: 'One Size',
  Composition: 'Cotton',
  Price: 10,
  Supplier_Name: 'Kids Apparel Co.',
  Manufacturing_Location: 'China',
  Brand_Name: 'Old Navy'
},
{
  Product_ID: 'P042',
  Product_Description: 'Leather Jacket',
  Size: 'Medium',
  Composition: 'Genuine Leather',
  Price: 120,
  Supplier_Name: 'Home Comforts',
  Manufacturing_Location: 'Turkey',
  Brand_Name: 'Pottery Barn'
},
{
  Product_ID: 'P055',
  Product_Description: 'Raincoat',
  Size: 'Large',
  Composition: 'Polyester',
  Price: 45,
  Supplier_Name: 'Nike Sportswear',
  Manufacturing_Location: 'USA',
  Brand_Name: 'Under Armour'
},
{
  Product_ID: 'P061',
  Product_Description: 'Wristwatch',
  Size: 'Adjustable',
  Composition: 'Metal Strap',
  Price: 120,
  Supplier_Name: 'Beauty Naturals',
  Manufacturing_Location: 'South Korea',
  Brand_Name: 'Dove'
}
],
{
  Category_Name: 'Women',
  count: 8,
  products: [
    {
      Product_ID: 'P004',
      Product_Description: 'Red Crop Top',
      Size: 'Medium',
      Composition: '100% Cotton',
      Price: 12,
      Supplier_Name: 'Cotton Soft Ltd.',
      Manufacturing_Location: 'Bangladesh',
      Brand_Name: "Levi's"
    },
    {
      Product_ID: 'P005',
      Product_Description: 'Blue Shirt Dress',
      Size: 'Large',
      Composition: '70% Cotton, 30% Polyester',
      Price: 11,
      Supplier_Name: 'Cotton Soft Ltd.',
      Manufacturing_Location: 'Bangladesh',
      Brand_Name: "Levi's"
    },
    {
      Product_ID: 'P020',
      Product_Description: 'Silk Scarf',
      Size: 'One Size',
      Composition: '100% Silk',
      Price: 25,
      Supplier_Name: 'Global Fashion Co.',
      Manufacturing_Location: 'Bangladesh',
      Brand_Name: 'Wrangler'
    },
    {
      Product_ID: 'P031',
      Product_Description: 'Sun Glasses',
      Size: 'One Size',
      Composition: 'Plastic and Glass',
      Price: 25,
      Supplier_Name: 'Urban Trendz',
      Manufacturing_Location: 'India',
      Brand_Name: 'American Eagle'
    },
    {
      Product_ID: 'P033',
      Product_Description: 'Winter Gloves',
      Size: 'Medium',
      Composition: 'Wool',
      Price: 15,
      Supplier_Name: 'Cotton Soft Ltd.',
      Manufacturing_Location: 'Vietnam',
      Brand_Name: 'GAP'
    },
  ]
}
```

Output of Query 4 (Part 3):

```
{  
    Product_ID: 'P054',  
    Product_Description: 'Leather Gloves',  
    Size: 'Medium',  
    Composition: 'Leather',  
    Price: 50,  
    Supplier_Name: 'SportPro Inc.',  
    Manufacturing_Location: 'China',  
    Brand_Name: 'Columbia'  
},  
,  
{  
    Product_ID: 'P056',  
    Product_Description: 'Winter Scarf',  
    Size: 'One Size',  
    Composition: 'Wool',  
    Price: 30,  
    Supplier_Name: 'BabyCare',  
    Manufacturing_Location: 'India',  
    Brand_Name: 'Himalaya'  
},  
,  
{  
    Product_ID: 'P067',  
    Product_Description: 'Winter Coat',  
    Size: 'Large',  
    Composition: 'Wool Blend',  
    Price: 150,  
    Supplier_Name: 'Kids Apparel Co.',  
    Manufacturing_Location: 'South Korea',  
    Brand_Name: 'The North Face'  
}  
]  
]
```

5. Branch-Wise Total Sales for September and October 2024

```

fm_clothing_store_mongo_1> db.Orders.aggregate([
... {
...   $lookup: {
...     from: "Branch",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "branchDetails"
...   }
... },
... {
...   $unwind: "$branchDetails"
... },
... {
...   $lookup: {
...     from: "Branch_Contact",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "branchContact"
...   }
... },
... {
...   $unwind: "$branchContact"
... },
... {
...   $lookup: {
...     from: "Branch_Phone",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "branchPhone"
...   }
... },
... {
...   $unwind: "$branchPhone"
... },
... {
...   $lookup: {
...     from: "Branch_Location",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "branchLocation"
...   }
... },
... {
...   $unwind: "$branchLocation"
... },
... {
...   $lookup: {
...     from: "Branch_Establishment",
...     localField: "Branch_ID",
...     foreignField: "Branch_ID",
...     as: "branchEstablishment"
...   }
... },
... {
...   $unwind: "$branchEstablishment"
... },
... {
...   $addFields: {
...     Month: { $dateToString: { format: "%Y-%m", date: { $dateFromString: { dateString: "$Order_Date" } } } },
...     Branch_Email: "$branchContact.Branch_Email",
...     Branch_Phone: "$branchPhone.Branch_Phone",
...     Branch_Address: "$branchLocation.Branch_Address",
...     Branch_Year: "$branchEstablishment.Branch_Year"
...   }
... },
... {
...   $match: {
...     Month: { $in: ["2024-09", "2024-10"] }
...   }
... },
... {
...   $group: {
...     _id: { City: "$branchDetails.City", Month: "$Month" },
...     MonthlyIncome: { $sum: "$Total_Amount" },
...     Branch_Email: { $first: "$Branch_Email" },
...     Branch_Phone: { $first: "$Branch_Phone" },
...     Branch_Address: { $first: "$Branch_Address" },
...     Branch_Year: { $first: "$Branch_Year" }
...   }
... },
... {
...   $project: {
...     _id: 0,
...     City: "$_id.City",
...     Month: "$_id.Month",
...     MonthlyIncome: 1,
...     Branch_Email: 1,
...     Branch_Phone: 1,
...     Branch_Address: 1,
...     Branch_Year: 1
...   }
... },
... {
...   $sort: {
...     City: 1,
...     Month: 1
...   }
... }
... ])
...
]

```

Output of Query 5:

```
[{"_id": "5c4d9f2e4a4c4d0001000001", "Branch": {"MonthlyIncome": 35, "Branch_Email": "chichester@fmstores.com", "Branch_Phone": "+44-1234-567005", "Branch_Address": "Harrow Road, Chichester, CH2 4GK", "Branch_Year": 2000, "City": "Chichester", "Month": "2024-09"}, {"_id": "5c4d9f2e4a4c4d0001000002", "Branch": {"MonthlyIncome": 170, "Branch_Email": "chichester@fmstores.com", "Branch_Phone": "+44-1234-567005", "Branch_Address": "Harrow Road, Chichester, CH2 4GK", "Branch_Year": 2000, "City": "Chichester", "Month": "2024-10"}, {"_id": "5c4d9f2e4a4c4d0001000003", "Branch": {"MonthlyIncome": 20, "Branch_Email": "fareham@fmstores.com", "Branch_Phone": "+44-1234-567002", "Branch_Address": "12 Buckingham Street, Fareham, PO2 3ST", "Branch_Year": 2001, "City": "Fareham", "Month": "2024-09"}, {"_id": "5c4d9f2e4a4c4d0001000004", "Branch": {"MonthlyIncome": 30, "Branch_Email": "fareham@fmstores.com", "Branch_Phone": "+44-1234-567002", "Branch_Address": "12 Buckingham Street, Fareham, PO2 3ST", "Branch_Year": 2001, "City": "Fareham", "Month": "2024-10"}, {"_id": "5c4d9f2e4a4c4d0001000005", "Branch": {"MonthlyIncome": 40, "Branch_Email": "gospport@fmstores.com", "Branch_Phone": "+44-1234-567003", "Branch_Address": "Lake View Street, Gosport, GO3 2FG", "Branch_Year": 2002, "City": "Gosport", "Month": "2024-09"}, {"_id": "5c4d9f2e4a4c4d0001000006", "Branch": {"MonthlyIncome": 30, "Branch_Email": "gospport@fmstores.com", "Branch_Phone": "+44-1234-567003", "Branch_Address": "Lake View Street, Gosport, GO3 2FG", "Branch_Year": 2002, "City": "Gosport", "Month": "2024-10"}, {"_id": "5c4d9f2e4a4c4d0001000007", "Branch": {"MonthlyIncome": 18, "Branch_Email": "havant@fmstores.com", "Branch_Phone": "+44-1234-567004", "Branch_Address": "4 Harleys Street, Havant, HP1 2FP", "Branch_Year": 2003, "City": "Havant", "Month": "2024-09"}, {"_id": "5c4d9f2e4a4c4d0001000008", "Branch": {"MonthlyIncome": 40, "Branch_Email": "havant@fmstores.com", "Branch_Phone": "+44-1234-567004", "Branch_Address": "4 Harleys Street, Havant, HP1 2FP", "Branch_Year": 2003, "City": "Havant", "Month": "2024-10"}, {"_id": "5c4d9f2e4a4c4d0001000009", "Branch": {"MonthlyIncome": 35, "Branch_Email": "waterlooville@fmstores.com", "Branch_Phone": "+44-1234-567001", "Branch_Address": "15 Red Cross Road, Waterlooville, W01 2SP", "Branch_Year": 2000, "City": "Waterlooville", "Month": "2024-09"}, {"_id": "5c4d9f2e4a4c4d0001000010", "Branch": {"MonthlyIncome": 65, "Branch_Email": "waterlooville@fmstores.com", "Branch_Phone": "+44-1234-567001", "Branch_Address": "15 Red Cross Road, Waterlooville, W01 2SP", "Branch_Year": 2000, "City": "Waterlooville", "Month": "2024-10"}]
```

fm_clothing_store_mongo_1> []

6. Business Applications of the Above 5 Queries

Query	Business Application
1. Product Stock and Availability Across Branches	<ul style="list-style-type: none"> Analyzes product stock levels at all 5 different branches. Links product availability with branch-specific details. Provides insights into supplier and manufacturing information of each product. Optimizes inventory distribution, ensuring better management of product stocks and refilling when low in stock.
2. Delivery Order History with Payment and Logistics Details	<ul style="list-style-type: none"> Tracks delivery of each product purchased online. Helps assess the performance of delivery personnel and companies. Supports better payment tracking and delivery status.
3. Product Purchasing Records with Customer and Payment Insights	<ul style="list-style-type: none"> Aggregates order details, payment methods, and customer information. Analyzes purchasing behavior, order preferences, and payment trends. Provides feedback and review insights for improving service. Assists in identifying high-demand products and branch performance.
4. Category-Wise Product Details Including Suppliers and Manufacturing Information	<ul style="list-style-type: none"> Focuses on products within specific categories (Men/Women). Includes supplier, manufacturing, and brand information. Aids in category-based marketing strategies and inventory optimization. Enhances relationships with suppliers and manufacturers.
5. Branch-Wise Total Sales for September and October 2024	<ul style="list-style-type: none"> Analyzes branch-specific sales data for two months (September and October) Provides insights into branch contact, location, and establishment data. Helps in evaluating branch performance and identifying sales of each branch.

TASK-3

Reflective Report

Development of the Database :

The first important step we undertook before developing the NoSQL (MongoDB) database was to understand the requirements of the FM Clothing Store. After carefully understanding the requirements of the FM Clothing Store we figured out the different types of collections to include in our database by keeping in mind the usefulness of the stored data in each collection created for day-to-day operations of the retailer. The collections present in our database are systematically linked to multiple collections within the database, this is done to establish important relationships throughout the database. We also made sure to make the names of fields in each collection simple and concise so that any person can easily insert, update, and delete records in the database. Moreover, the collections are created in such a way that even a person with no technical knowledge of the database can easily understand the purpose and functionality of every collection created. To fit the database correctly with the business's actual data, the database is extensively tested with dummy data to make sure that the database works without a glitch in the actual scenario.

Selection of NoSQL Queries:

The main queries for this database are created in such a way that it cover important aspects of F.M. Clothing Store's operations which will help to generate actionable insights and facilitate growth of the business. The queries are selected based on the following factors but not limited to these-

- Sales Insights: To generate monthly sales data for each branch.
- Stock Management: To trace the availability of all products in different branches regarding products to reorder if the stock goes below a particular limit.
- Customer Details: For the purpose of keeping customer records for those who have bought items in this store.
- Delivery Process: To monitor delivery processes at various stages when a customer places orders through online mode.
- Customer Feedback and Suggestions: To analyze customer feedback in order to improve the quality of products sold.

Collaboration with teammates:

The database could not be developed without the effective cooperation and collaboration of all the team members. The task was evenly and systematically divided among the teammates to distribute the workload equally. We held Google Meet sessions every alternate day to discuss the progress of our work. We also made proper use of the library and the infrastructure it holds like making use of the computers to successfully implement the work on Virtual Machine. All three members in our group were open to new ideas and were always eager to accept different feedback and suggestions throughout the coursework. Lastly, and most importantly, working as a team kept us motivated and energized to successfully develop the database.

References

1. MongoDB. (n.d.). *MongoDB: The developer data platform*. MongoDB, Inc. Retrieved January 18, 2025, from <https://www.mongodb.com/>
2. W3Schools. (n.d.). *MongoDB tutorial*. Retrieved January 18, 2025, from <https://www.w3schools.com/mongodb/>
3. Tutorialspoint. (n.d.). *MongoDB tutorial*. Retrieved January 18, 2025, from <https://www.tutorialspoint.com/mongodb/index.htm>

