

The University of Manchester

Amazone Database

Group Report

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DATA70141 | **Understanding Databases**

MSc Data Science

Introduction

This report aims to outline the process and considerations for creating a NoSQL database for an online delivery system for Amazone. This report will cover the benefits of using NoSQL, data model, data storage and retrieval aspects of the database. This report covers task allocations between the team, a NoSQL schema for the database along with the rationale behind its design, an application for the delivery system and sample implementation results of the application.

Task Division

Task	Description	Responsibility
Schema Design	Schema Design Proposal	Whole Team
Customers		Rayan
Current OrdersFresh		Soomin
Current Orders Other		Soomin
RecommendedProducts		Ali
Past Order		Soomin
Partners		Rayan
Partner Status		Yanfei
Warehouses	Data Population	Hadhry
DailyInventoryLevel		Devesh
Average Product		Ahsan
Ratings		
Partner Ratings		Ahsan
Product		Ali
Shopping basket		Soomin
Order Status		Ali
GeoJson	Obtaining coordinates based on	Rayan
	postcodes	
Shipping Cost	Calculating and assigning shipping cost	Rayan + Soomin
Recommendation	Recommendation calculation, data	Ali
	update	
Find Drivers	Implement delivery driver selection	Hadhry
	algorithm and calculate ETA	
Add to basket (cart)	Adding items to the cart	Soomin
Find Items Available at	Check Morrissons stock	Hadhry + Devesh
Morrisons		
Calculating shipping	Calculate shipping costs for shopping	Rayan + Soomin
costs	baskets, current orders, and past orders	
Basket to Order	Making a purchase, moving items from	Soomin
	basket to current order collection	

Stock Check	Check if there is stock before checkout	Rayan
	and update the warehouse	
Managerial Queries	Four functions that are used for data	Ahsan
	analysis and data visualisation	
Function Compilation	Compile all the functions and make one	Hadhry + Devesh
	single application for Amazone	
Data Compilation	Compile everyone's notes on their	Yanfei + Devesh
	specific functions	
Task 1 writeup	Write about the schema and design	Rayan + Yanfei
	decisions	
Complete mandatory	Run the function to obtain query results	Hadhry
queries		
Pipeline queries	Create extra pipeline queries	Ali + Ahsan
Data Visualisation	Prepare query results for data	Ahsan
Queries	visualisation	
Compile and write the	Finish the report	Everyone
report		

Table 1 YesQL Task Allocation

Assumptions

- The data that has been manually implemented has gone through all the procedures of the application at the point of entry, eg, DailyInventoryLevel has been adjusted for all current and past orders.
- All data has been entered randomly, including addresses of customers, and no analysis or predictions should be made on the existing data; it is strictly for demonstration purposes.
- All partners drive a vehicle with the capacity to take all their orders.

Schema

NoSQL databases provide flexibility regarding schema design, which means they can handle unstructured and semi-structured data. NoSQL databases are known for their simplicity compared to traditional relational databases, making them easier to manage (Sadalage and Fowler, 2013).

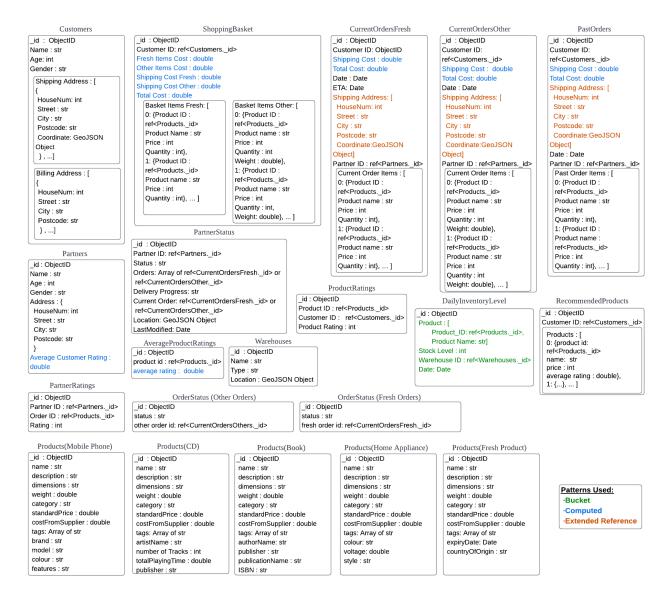
Taking advantage of this flexibility, a multiple schema design was implemented for this database. A multiple schema design allows for flexible data modelling as different data models can be used in different parts of the database. It increases data integrity by having multiple schemas it can enforce different constraints on the data. Furthermore, distinct schemas can be optimised for different queries, thus improving the performance of the database, and if required, can be partitioned within different databases efficiently (Sullivan, 2015).

The schema has 15 collections. The way the collections are divided is based on how frequently they will be queried or updated. Table 2 shows the frequently rewritten collections against the primarily read-only collections.

Frequently Read	Frequently Written
Products	Past Orders
Order Status	Order Status
Partner Status	Partner Status
Warehouses	Shopping Basket
Customers	Daily Inventory Level
Recommended Products	Current Orders Fresh
ProductRatings	Current Orders Others
Partner Ratings	
Current Orders Fresh	
Current Orders Others	

Table 2 Read/Write Collection Distribution

Frequently rewritten collections were separated into their collection to reduce querying complexity. This improves the performance of the database by skipping the need to traverse through multiple levels of nested data (Yoon et al., 2016). Collections like 'Order Status' and 'Partner Status' that require real-time collection tracking are refreshed every time a customer reloads their application and are therefore separated from the Current Orders collections. Partner status is also separated from 'Partners' as it is unnecessary to read through all partners' details to see their current location. Product IDs are documented in Current Orders; however, the customer may want to query more product details when looking at their basket; therefore, an extended referencing pattern was used to avoid referencing the entire document every time a query is made.

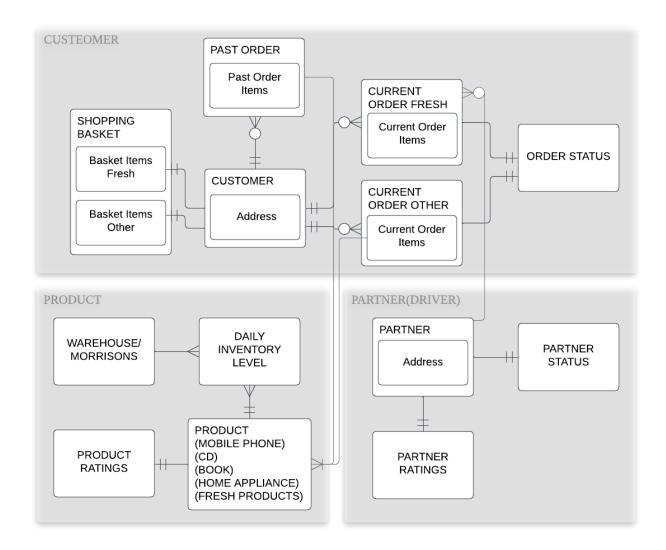


See JSON formatted Schema in the appendix.

Shipping address has been frequently queried, as it is shown in both current orders and past orders. 2DSPHERE indexes were applied to the location attributes of Warehouse and PartnerStatus locations to allow radial geospatial operations. A computed pattern is used for calculating average ratings and total costs to prevent the system from performing the calculation every time a query is performed.

The different product characteristics were not embedded into a single product document; instead, multiple schemas were adopted to accommodate the different attributes of each product. Embedding documents can make data modelling more complex and result in a less intuitive data model. NoSQL does not have a limitation on one fixed schema, and a multiple schema design has less complexity with fewer embedded documents (MongoDB, 2021).

ERD



Delivery Application

To make a working application that can be used for querying based on the needs of the customer and the company, several functions are created with the help of python and aggregation pipelines. All the functions used for querying are as follows:

- addToBasket(CustomerID, ProductID, quantity): This function is designed to allow customers to add items to their basket. It uses the ShoppingBasket collection. Multiple conditions are used, like inserting a new basket, updating an old basket, and dividing the products into fresh & other categories.
- 2. **Shipping_cost_fresh** (CustomerID): This function is designed to compute the shipping cost for fresh products. For orders exceeding £40 in value, no shipping cost is applied.
- 3. **Shipping_cost_other** (CustomerID): The shipping cost of other products is calculated based on weight, price & quantity and divided into four categories (0<50<150<250) with a \$5 increment from the second case with the increasing index value.

- 4. **FindMorrisonWithStock**(item_id, quantity): This function is created to find the nearest Morrison with listed products.
- 5. **FindPartner**(WarehouseCoord): This function finds the nearest partner to the warehouse with the customer's ordered products in stock using geospatial queries. Only partners with status set as active are gueried.
- 6. **AssignOrder**(partnerID, orderID): This function assigns a partner with orders updating partner status collection. ETA is calculated as 30 min for a single order, with an increment of 30 min for every subsequent order, with an order limit of 5 for every active partner.
- 7. **orderStatusUpdate**(orderID, orderType): This function updates the order status for the customer. Order status is divided into two categories based on orderType(0 for fresh, 1 for other products) attribute inside OrderStatusUpdate() function.
- 8. **basketToOrder**(customerID): Move the successfully purchased products into the CurrentOrder Collection.
- 9. Total_Sales_Over_Time(PastOrders,year): This function plots total sales over a particular year. It first calls the collection and converts it into a pandas data frame by normalising the JSON output. Then it selects the rows belonging to a particular year and sum the sales by month. Finally, the graph is plotted for total monthly sales, which helps a manager to see the seasonal trends and sales functions during a year.
- 10. Top_10_Products_by_Revenue(PastOrders): The function converts MongoDB collection into a pandas data frame and calculates the total revenue generated by each product over time. The function then sorts the products by revenue and picks the top 10 products for the plot.
- 11. Total_Revenue_per_Customer(PastOrders): It also calls customer collection and applies a left join on customer id to get customer names and then sum the total purchases of each customer.
- 12. **Revenue_by_tag**(db.Products, 'Top' or 'Lowest'): This function helps a manager to understand sales in a better way, e.g., if some products have a tag called "Vegetarian", then it is for the manager to separate all the veg products for data analysis. 'Top' for plotting the top 10 tags by revenue, and 'Lowest' for plotting the lowest 10 tags by revenue.
- 13. **Rating Averaging Function:** For new customers with no order history, the recommender function adds the two top-rated products to their recommendations. For the users with order history, tags are used to determine recommended products. For each customer, the tags are ordered according to how many products that customer has bought with that tag. The products matching the most frequent tag are then found, and two are added to the recommendations. If less than two products are found, then the next most frequent tag is

- used, until two products can be added to 'RecommendedProducts'. If two products are still not found after going through all tags, then the top-rated products are suggested.
- 14. Recommender Function: Using an aggregation pipeline on the ProductRatings collection, the ratings are grouped according to product id. For each product, the total sum of all ratings given to that product and the number of ratings are returned. From this, we can calculate the average rating for each product. All average ratings are rounded to 2 decimal places. A document is created if the product has not already got an average rating in the collection. Otherwise, the existing document is updated. The first step of the aggregation pipeline is to unwind the array field so that the recommended products are in separate documents. Then the documents are grouped by the Product ID, and the number of documents in which the Product ID appears is counted. Then the aggregated documents are sorted in descending order according to the count and limited, so only the first 5 documents are outputted.

Queries and sample results

A query showing a customer ordering a fresh product, getting assigned a driver based on location and being given an order and order status.

Query 1: Customer "Markos Voss" (_id: ObjectId('63b8707d066488245e595987')) purchases his fresh product shopping basket containing 74 'Bottled Water'.

```
Input
basketToOrder(ObjectId('63b8707d066488245e595987'))
Output
Ordered product details:
 [{'Product ID': ObjectId('63b5aebe10540422a4a51451'), 'Product Name': 'Bottled Water', 'Price': 1.1, 'Quantity': 74}]
Partner Assigned: Peter Parkere
Partner current location: [-2.214705, 53.471936]
ETA: 2023-01-13 00:33:50.712488
Fresh Product details :
Product ID
                         Product Name Price Quantity
63b5aebe10540422a4a51451 Bottled Water
Delivery drivers' locations :
{'type': 'Point', 'coordinates': [-2.214705, 53.471936]}
ETA: 2023-01-13 00:33:50.712488
Details of delivery drivers :
{'Name': 'Peter Parkere', 'Average Customer Rating': 4.9}
```

Query 2: Customer "Plinius Dubicki" (_id: ObjectId("63b8707d066488245e595986")) adds 1 'Peach' to her basket and proceeds to purchase it.

A customer querying for fresh products and getting availability based on their location.

Query 3: 'John Doe' searches for fresh products currently available to order to his address.

```
AvailableFreshProducts(ObjectId("63b8707d066488245e595983"))

Output

('_id': ObjectId('63b5aebe19540422a4a51444'), 'name': 'Croissant', 'description': 'Freshly baked all butter croissant', 'standardPrice': 0.6, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a51444'), 'name': 'Muffin', 'description': 'Iriple chocolate muffin', 'standardPrice': 0.8, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a51444'), 'name': 'Orange Juice', 'description': 'Hand squezed orange juice with bits', 'standardPrice': 2.1, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a5144a'), 'name': 'Pain Au Chocolat', 'description': 'Freshly baked pain au chocolat', 'standardPrice': 0.5, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a5144a'), 'name': 'Pain Au Chocolat', 'description': 'Freshly baked pain au chocolat', 'standardPrice': 0.5, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a51451'), 'name': 'Pain Au Chocolat', 'description': 'StandardPrice': 1.3, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a51451'), 'name': 'Bottled Water', 'description': 'Bottled spring water', 'standardPrice': 1.1, 'countryOfOrigin': 'United Kingdom'} ('_id': ObjectId('63b5aebe19540422a4a51451'), 'name': 'Bottled Water', 'description': 'SandardPrice': 0.6, 'countryOfOrigin': 'Spain'}
```

Customer adding a product to a cart and making payment.

Query 4: Customer "Nikodemos Hero" (_id: ObjectId('63b8707d066488245e595983')), adds 1 'croissant' to her basket, which already consists of 5 'croissants' 2 'Sony Xperia XZ' and 4 'Google Pixel 7 Pro'. He proceeds to purchase all items in his basket

```
Ordered product details:
[{'Product ID': ObjectId('63b5aebe10540422a4a51444'), 'Product Name': 'Croissant', 'Price': 0.6, 'Quantity': 6}]
Partner Assigned: Christy Stephenson
ETA: 2023-01-12 23:24:13.031292
Fresh Product details :
Product ID
                             Product Name
                                               Price Quantity
63b5aebe10540422a4a51444 Croissant
                                                  0.6
Delivery drivers' locations :
{'type': 'Point', 'coordinates': [-2.249629, 53.475607]}
ETA: 2023-01-12 23:24:13.031292
Details of delivery drivers :
{'Name': 'Christy Stephenson', 'Average Customer Rating': 4.3}
Other Product details :
Product ID
                            Product Name
                                                    Price Quantity
                                                                            Weight

      63b5aebe10540422a4a51459
      Sony Xperia XZ
      60

      63b5aebe10540422a4a5145a
      Google Pixel 7 Pro
      700

                                                                                0.2
                                                                                0.2
'Success: Item has been ordered'
```

Query 5: Customer 'Hadhry Haslimejuice' (_id: ObjectId("63b8707d066488245e595992")) adds 1 "Samsung Galaxy S9" to his basket and attempts to purchase. This order is, however unsuccessful as the product is out of stock.

```
Input
addToBasket(ObjectId("63b8707d066488245e595992"),ObjectId('63b5aebe10540422a4a51455'), 1)
basketToOrder(ObjectId("63b8707d066488245e595992"))
Output

Free Shipping
Sorry, we couldn't proceed your order.
Samsung Galaxy S9 is out of stock
```

Query 6: Getting the top 5 most recommended items

<u>Input:</u>The first step of the aggregation pipeline is to unwind the array field so that the recommended products are in separate documents. Then the documents are grouped by the *Product ID* and the number of documents in which the *Product ID* appears is counted. Then the aggregated documents are sorted in descending order according to the count and limited so only the first 5 documents are outputted.

```
collection = db.RecommendedProducts
 cursor = collection.aggregate([
    {"$unwind": "$Products"},
    {"$group": {
        "_id": {"Product ID": "$Products.product id"},
        "Count": {"$sum": 1}
    {"$sort": {"Count": -1}},
    {"$limit": 5}
 for doc in cursor:
    print(doc)
Output
 {'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51458')}, 'Count': 6}
  'id': {'Product ID': ObjectId('63b5aebe10540422a4a51459')}, 'Count': 6}
    _id': {'Product ID': ObjectId('63b5aebe10540422a4a51473')},                   'Count': 4}
    '_id': {'Product ID': ObjectId('63b5aebe10540422a4a51479')},                  'Count': 3}
```

Query 7: Getting the number of deliveries and the total value of items each driver has completed:

<u>Input:</u> The *PastOrders* collection is grouped by *Partner ID* and the number of documents in which each id appears is counted to obtain the number of deliveries. The sum of the *Total Cost* for each document is also obtained to get the total value of items delivered for each driver.

<u>Output</u>

```
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a4')}, 'Number of Orders': 3, 'Total Value': 57.44}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959ab')}, 'Number of Orders': 6, 'Total Value': 605.6}
{'_id': {'Partner ID': None}, 'Number of Orders': 97, 'Total Value': 216970.93}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959aa')}, 'Number of Orders': 8, 'Total Value': 355.1500000000000003}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959aa')}, 'Number of Orders': 9, 'Total Value': 505.0}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a6')}, 'Number of Orders': 9, 'Total Value': 140.5}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a7')}, 'Number of Orders': 9, 'Total Value': 965.28}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a2')}, 'Number of Orders': 9, 'Total Value': 572.4}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a3')}, 'Number of Orders': 8, 'Total Value': 780.8}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a5')}, 'Number of Orders': 6, 'Total Value': 208.7}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a9')}, 'Number of Orders': 5, 'Total Value': 393.05}
```

Query 8: Getting the top 3 most sold products

<u>Input</u> The unwind operator is used to separate each item in order out into separate documents. Then the documents are grouped according to *Product ID* the number of times each *Product ID* appears is counted. The aggregated documents are sorted according to the count in descending order, and the output is limited to 3 documents.

Output

```
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51455')}, 'Count': 12}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5144c')}, 'Count': 9}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51474')}, 'Count': 9}
```

Query 9: Getting the total stock level across all warehouses for each product

<u>Input:</u> This query uses an aggregation pipeline over the *DailyInventoryLevel* collection. The pipeline group documents by *Product ID* and takes the sum of the stock levels for each product.

Output

```
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51462')), 'Stock': 7997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51462')), 'Stock': 7997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51465')), 'Stock': 109000)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51465')), 'Stock': 109000)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51446')), 'Stock': 3977)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51446')), 'Stock': 3977)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51444')), 'Stock': 3977)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51474')), 'Stock': 3979)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51473')), 'Stock': 7979)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51473')), 'Stock': 79997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51446')), 'Stock': 29997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51446')), 'Stock': 37958)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51446')), 'Stock': 4993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 4993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 4993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1998)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1998)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1998)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 1993)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 9997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 9997)
('.id': ('Product ID': ObjectId('63bSaebe10540422a4a51460')), 'Stock': 9999)
('.id': ('Product ID': ObjectId('63bSae
```

Query 10: Finding the Customers' Average Age for Demographic Information

```
Input
 Customer Avg Age pipeline = [
    {"$group": {"_id": "$Gender", "Average Age": {"$avg": "$Age"}}},
    {"$sort": SON([("Average Age", 1), ("_id", -1)])},
     {"$project": {"Average Age":1, "_id":1}}]
 results=list(db.Customers.aggregate(Customer Avg Age pipeline))
 for i in results:
   print(i)
Output
  {'_id': 'Female', 'Average Age': 24.857142857142858}
  {'_id': 'Male', 'Average Age': 26.1666666666668}
  {'_id': 'Other', 'Average Age': 54.0}
```

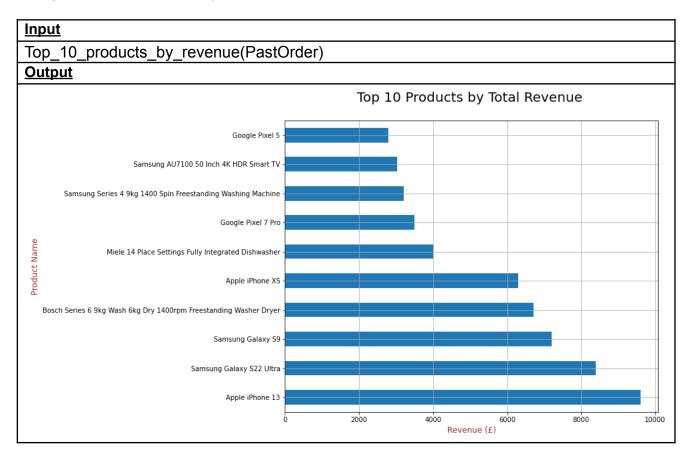
Query 11: Customer age count above a certain age

```
Input
[24] Customer_age_count_pipeline=[
            "$match": {
              "Age": {
                "$gt": 30
          },
            "$count": "Number of customers above Age 30"
        ]
      a=list(db.Customers.aggregate(Customer_age_count_pipeline))
      for i in a:
         print(i)
Output
```

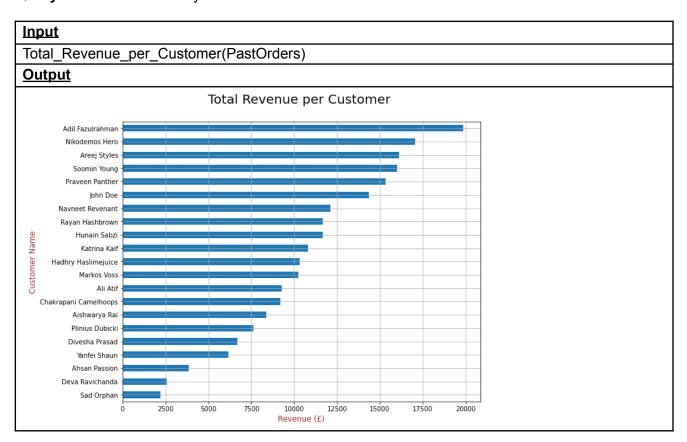
```
{'Number of customers above Age 30': 5}
```

Query 12: Top 5 Partners by Rating

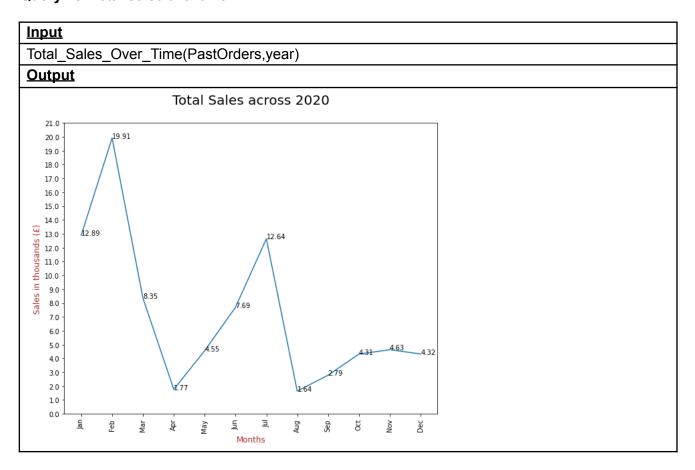
Query 13: Top 10 Products by Revenue

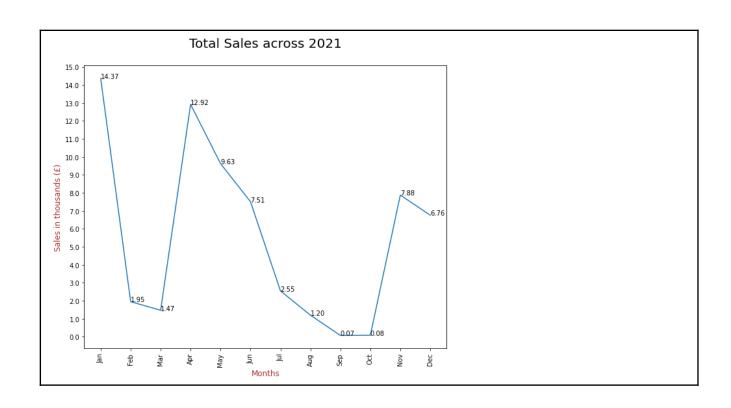


Query 14: Total Revenue by Customer

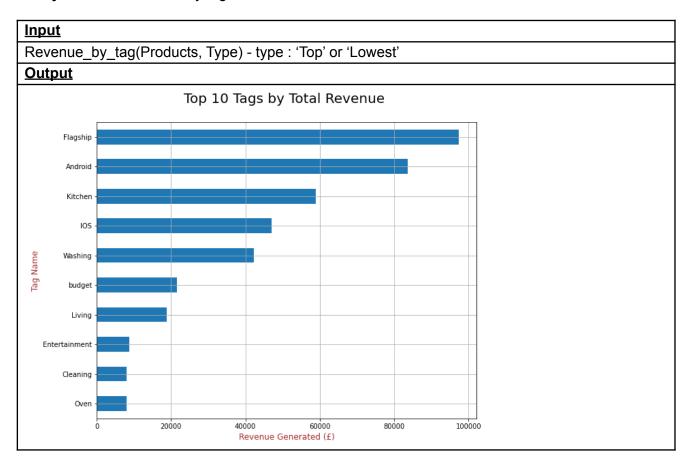


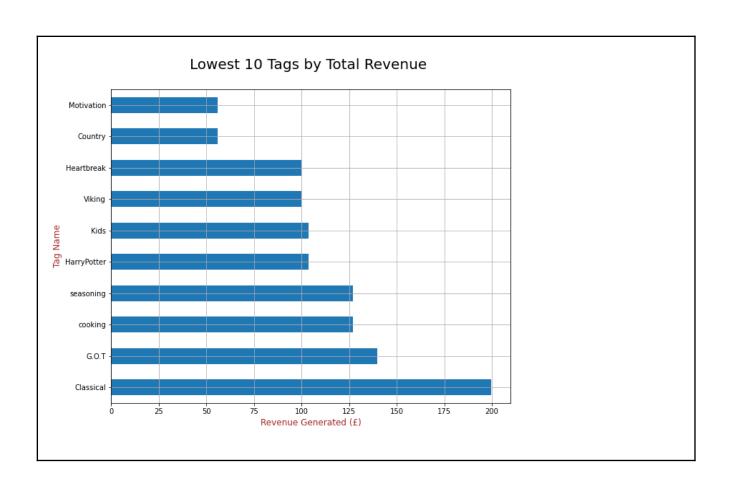
Query 15: Total Sales over time





Query 16: Total Revenue by tags





References

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Appendix

Section 1: Schema JSON

```
Customers {
     id : ObjectID
     Name : str
     Age: int
     Gender : str
     Shipping Address : {
          HouseNum : int
          Street : str
          City: str
          Postcode: str
          Coordinate: GeoJSON Object
     Billing Address : {
          House Num : int
           Street : str
          City : str
           Postcode: str
}
ShoppingBasket {
     id : ObjectID
     Customer ID: ref<Customers._id>
     Basket Items Fresh: [
           0: {Product ID : ref<Products. id> //Embedded Document
           //product details: extended reference pattern
           Product name : str
          Price : int
          Quantity : int},
           1: {Product ID : ref<Products._id>
          Product name : str
          Price : int
          Quantity : int}, ... ]
     ]
     Basket Items Other: [
           0: {Product ID : ref<Products._id>
           //product details: extended reference pattern
          Product name : str
          Price : int
          Quantity: int
          Weight : double},
           1: {Product ID : ref<Products. id>
           //product details: extended reference pattern
```

```
Product name : str
          Price : int
          Quantity : int
          Weight : double }, ... ]
     Fresh Items Cost : double
     Other Items Cost : double
     Shipping Cost Fresh : double
     Shipping Cost Other : double
     Total Cost : double
}
CurrentOrdersFresh {
     _id : ObjectID
     Customer ID: ref<Customers. id>
     Current Order Items : [
           0: {Product ID : ref<Products. id> //Embedded Document
           // product details: extended reference pattern
          Product name : str
          Price : int
          Quantity : int},
          1: {Product ID : ref<Products. id>
           // product details: extended reference pattern
          Product name : str
          Price : int
          Quantity : int}, ... ]
     Shipping Cost : double
     Total Cost : double
     Date : Date
     ETA : Date
     Partner ID : ref<Partners._id>
}
CurrentOrdersOther {
     id : ObjectID
     Customer ID: ref<Customers. id>
     Current Order Items : [
           0: {Product ID : refroducts. id> //Embedded Document
           // product details: extended reference pattern
           Product name : str
           Price : int
          Quantity: int
          Weight : double },
          1: {Product ID : ref<Products._id>
           // product details: extended reference pattern
           Product name : str
          Price : int
          Quantity: int
          Weight : double }, ... ]
```

```
Shipping Cost : double
     Total Cost : double
     Date : Date
     ETA : Date
     Partner ID : ref<Partners._ID>
}
PastOrders {
     id : ObjectID
     Customer ID: ref<Customers. id>
     Shipping Cost : double
     Total Cost: double
     Shipping Address: [ // Extended reference pattern
          HouseNum: int
          Street : str
          City: str
          Postcode: str
          Coordinate:GeoJSON Object]
     Past Order Items : [
          0: {Product ID : ref<Products. id>
          // product details : Extended reference pattern
          Product name : str
          Price : int
          Quantity : int},
          1: {Product ID:ref<Products. id>
          // product details : extended reference pattern
          Product name : str
          Price : int
          Quantity : int}, ... ]
     Shipping Cost : double // Computed pattern
     Total Cost : double // Computed pattern
     Date : Date
     Partner ID : ref<Partners. id>
}
OrderStatus {
     _id : ObjectID
     status : str
     fresh order id: ref<CurrentOrdersFresh._id>
          (Or other order id: ref<CurrentOrdersOthers._id>)
}
```

```
Partners {
     id: ObjectID
     Name : str
     Age : int
     Gender : str
     Address : {
          HouseNum: int
          Street : str
          City: str
          Postcode: str
     Average Customer Rating : double // computed pattern
}
PartnerStatus {
     id : ObjectID
     Partner ID: ref<Partners. id>
     Status : str
     Orders: Array of ref<CurrentOrdersFresh. id> or
                      ref<CurrentOrdersOther. id>
     Delivery Progress: str
     Current Order:
          ref<CurrentOrdersFresh. id> or ref<CurrentOrdersOther. id>
     Location: GeoJSON Object
     LastModified: Date
}
Warehouses {
     id : ObjectID
     Name : str
     Type : str
     Location : GeoJSON Object
}
DailyInventoryLevel {
     _id : ObjectID
     Product : [ // Bucket pattern
          Product ID: ref<Products. id>,
          Product Name: str] // Extended reference pattern
          Stock Level : int
     Warehouse ID : ref<Warehouses._id>
     Date: Date
}
ProductRatings {
     id : ObjectID
     Product ID : ref<Products. id>
     Customer ID : ref<Customers. id>
```

```
Product Rating : int
}
PartnerRatings {
     id : ObjectID
     Partner ID : ref<Partners._id>
     Order ID : ref<Products. id>
     Rating : int
}
Products { // Mobile Phone
     id : ObjectID
     Name : str
     Desc : str
     Dimensions : str
     Weight : double
     Category : str
     Standard Price : double
     Cost from Supplier : double
     Tags: array of str
     Brand : str
     Model : str
     Colour : str
     Features : str
     }
Products { // CD
     id : ObjectID
     Name : str
     Desc : str
     Dimensions : str
     Weight : double
     Category : str
     Standard Price : double
     Cost from Supplier : double
     Tags: array of str
     Artist Name : str
     Number of Tracks : int
     Total Playing time : double
     Publisher : str
     }
Products { // BOOK
     _id : ObjectID
     Name : str
     Desc : str
     Dimensions : str
     Weight : double
     Category : str
     Standard Price : double
```

```
Cost from Supplier : double
     Tags: array of str
     Author Name: str
     Publisher : str
     Publication Name : str
     ISBN : str
Products { // HOME APPLIANCES
     id : ObjectID
     Name : str
     Desc : str
     Dimensions : str
     Weight : double
     Category : str
     Standard Price : double
     Cost from Supplier : double
     Tags: Array of str
     Colour: str
     Voltage: double
     Style : str
     }
Products { // FRESH PRODUCTS
     id : ObjectID
     Name : str
     Desc : str
     Dimensions : str
     Weight : double
     Category : str
     Standard Price : double
     Tags : Array of str
     Cost from Supplier : double
     ExpiryDate: Date
     Country of Origin : str
```

Section 2: Python Functions

1. Find Customer Coords

```
2. def SetCoords(CustomerID, CustomerPostcode):
3.
      parameters = {
4.
                       "key" : "sM71CSW55GhFb541H9GBBHzrasK3J5B6",
                       "location": CustomerPostcode
5.
6.
8.
      response =
  requests.get("http://www.mapquestapi.com/geocoding/v1/address",params =
  parameters)
      data = json.loads(response.text)['results']
10.
11.
         long = data[0]['locations'][0]['latLng']['lng']
12.
         lat = data[0]['locations'][0]['latLng']['lat']
13.
14.
         db.Customers.update one({" id": CustomerID}, { "$set":{"Shipping
  Address.Coordinates": { "type": "Point", "coordinates": [ long, lat ]
   }}})
```

1. AvailableFreshProducts

```
availableMorrison = warehouses.find(
8.
         {
9.
            "Location": {
10.
                    "$near": {
11.
                        "$geometry": {
12.
                            "type": "Point",
13.
                            "coordinates": customerCoord
14.
                            },
15.
                        "$maxDistance": 3000,
16.
17.
                    }, " id": {"$in": allMorrison}
18.
               }).distinct(" id")
22.
       AvailableFreshProducts = db.DailyInventoryLevel.find({"Warehouse
  ID":{"$in":availableMorrison}, "Stock
  Level":{"$gte":1}}).distinct("Product.Product ID")
23.
24.
       for i in AvailableFreshProducts:
25.
           availableProduct =
  db.Products.find_one({"_id":i},{'name':1,'description':1,'standardPrice':
  1,'countryOfOrigin':1})
26.
           print(availableProduct)
```

2. FindMorrison

```
    def FindMorrison(customerCoord, availableWarehouses, productType = 0):
    if (productType == 0):
    try: # productType = 0 for fresh products, return the nearest Morrison within maxDistance
```

```
morrison = warehouses.find one(
                  {
8.
                     "Location": {
                          "$near": {
10.
                                 "$geometry": {
11.
                                     "type": "Point",
12.
                                     "coordinates": customerCoord
13.
                                     },
14.
                                 "$maxDistance": 3000,
15.
                                 }
16.
                             }, " id": {"$in": availableWarehouses}
17.
                         })["_id"]
18.
                return morrison
19.
          except:
20.
               return None
21.
        else: # other products, return the nearest warehouse regardless
  of the distance
23.
      try:
24.
                morrison = warehouses.find_one(
25.
                     {
26.
                         "Location": {
27.
                             "$near": {
28.
                                 "$geometry": {
29.
                                     "type": "Point",
30.
                                     "coordinates": customerCoord
31.
```

```
32. }

33. }, "_id": {"$in": availableWarehouses}

34. })["_id"]

35. return morrison

36. except:

37. return None
```

4. Shipping_cost_fresh

```
def shipping cost fresh(customerID):
   shoppingBasket = db.ShoppingBasket
   cursor = db.ShoppingBasket.find_one({"Customer ID": customerID})
   try:
        freshItemsCost = cursor["Fresh Items Cost"]
       oldShippingCost = cursor["Shipping Cost Fresh"]
   except Exception:
       print("Please check customer ID")
       return
   if (freshItemsCost < 40 and freshItemsCost > 0):
       if (oldShippingCost == 0):
            shoppingBasket.update_one({"Customer ID": customerID}, {
                "$inc": {"Total Cost": 4}})
            shoppingBasket.update_one({"Customer ID": customerID}, {
               "$inc": {"Shipping Cost Fresh": 4}})
```

5. shipping_cost_other

```
def shipping_cost_other(customerID):
    # set all variables and assign cursor to shopping basket collection
    shoppingBasket = db.ShoppingBasket
    cursor = shoppingBasket.find_one({"Customer ID": customerID})

try:
    basketProducts = cursor["Basket Items Other"]
    oldShippingCost = cursor["Shipping Cost Other"]

except Exception:
    print("Please check customer ID")
    return

if (oldShippingCost > 0):
```

```
shoppingBasket.update one({"Customer ID": customerID}, {"$inc":
{"Shipping Cost Other": -oldShippingCost,
"Total Cost": -oldShippingCost}})
   shippingCost = 0
   for doc in basketProducts:
       index = 0
       weight = doc["Weight"]
       price = doc["Price"]
       quantity = doc["Quantity"]
       index = weight*price*quantity
   # calculate shipping cost based on the index
   if index <= 50 and index > 0: # free shipping for index less than 50
       print("Free Shipping")
   elif index > 50 and index <= 100:
       shippingCost += 5
       print("$5 Shipping cost applied")
   elif index <= 150 and index > 100: # shipping cost is applied for
anything over
       shippingCost += 10
       print("$10 Shipping cost applied")
   elif index <= 250 and index > 150:
       shippingCost += 15
       print("$15 Shipping cost applied")
```

6. AddToBasket

```
def addToBasket(customerID, productID, quantity):
   # 2. insert document into shopping basket
   # 2.1. check the product category
   cursor = products.find one({" id": productID})
   try:
       category = cursor["category"]
       productName = cursor["name"]
       price = cursor["standardPrice"]
       weight = cursor["weight"]
   except Exception:
       print("Please check ProductID")
       return
   cost = round(price * quantity, 2)
```

```
# 2.2. Fresh Categories to classify basket items
   freshList = ["bakery", "drinks", "fruits"]
   # 2.3. insert or update basket collection
   cursor = shoppingBasket.find({"Customer ID": customerID})
   if (len(cursor.distinct("_id")) != 0): # if the basket for that
customer already exists, update
       basketID = cursor.distinct(" id")[0]
       freshItemsList = []
       otherItemsList = []
       freshItemsList = cursor.distinct("Basket Items Fresh.Product ID")
       otherItemsList = cursor.distinct("Basket Items Other.Product ID")
       if (category in freshList): # if the product is fresh product
           # if the product already exists in basket, update quantity and
cost
           if (productID in freshItemsList):
               shoppingBasket.update one({" id": basketID, "Basket Items
Fresh.Product ID": productID},
                                          {"$inc": {"Basket Items
Fresh.$.Quantity": quantity, "Fresh Items Cost": cost,
```

```
"Total Cost": cost}})
            else: # else, insert product into fresh items in the basket
                shoppingBasket.update one({" id": basketID},
                                          {"$push": {"Basket Items Fresh":
                                                     {"Product ID":
productID, "Product Name": productName, "Price": price,
                                                      "Quantity":
quantity}}, "$inc": {"Fresh Items Cost": cost,
"Total Cost": cost}}, upsert=True)
            # recalculate the shipping cost based on new fresh items cost
            shipping_cost_fresh(customerID)
       else: # if the product is non-fresh product
            # if the product already exists in basket, update quantity and
cost
            if (productID in otherItemsList):
                shoppingBasket.update_one({"_id": basketID, "Basket Items
Other.Product ID": productID},
                                          {"$inc": {"Basket Items
Other.$.Quantity": quantity, "Other Items Cost": cost,
                                                    "Total Cost": cost}})
            else: # else, insert product into fresh items in the basket
                shoppingBasket.update one({" id": basketID},
                                          {"$push": {"Basket Items Other":
```

```
{"Product ID":
productID, "Product Name": productName, "Price": price,
                                                      "Quantity": quantity,
"Weight": weight}}, "$inc": {"Other Items Cost": cost,
"Total Cost": cost}}, upsert=True)
            # calculate the shipping cost and update the basket
            shipping_cost_other(customerID)
   else: # if the document doesnt exist, insert
       if (category in freshList):
           shoppingBasket.insert one({"Customer ID": customerID,
                                       "Basket Items Fresh": [{"Product ID":
productID, "Product Name": productName, "Price": price,
                                                                "Quantity":
quantity}],
                                       "Basket Items Other": [],
                                       "Fresh Items Cost": round(cost, 2),
"Other Items Cost": 0, "Shipping Cost Fresh": 0,
                                       "Shipping Cost Other": 0, "Total
Cost": round(cost, 2)})
            shipping cost fresh(customerID)
       else:
            shoppingBasket.insert one({"Customer ID": customerID,
                                       "Basket Items Fresh": [],
```

7. FindPartner

```
def FindPartner(warehouseCoord):
   driver = db.PartnerStatus.find one(
        {
            "Status": "Active",
            "Location": {
                "$near": {
                    "$geometry": {
                        "type": "Point",
                                "coordinates": warehouseCoord
                    },
                    "$maxDistance": 3000,
                }
            }, "Orders.4": {"$exists": False}
        })
   try:
       return driver['Partner ID']
   except:
```

8. UpdateOrderStatus

```
def update_order_status_despatched (fresh_order_id):
    db.OrderStatus.update_one({"fresh order
id":fresh_order_id},{"$set":{"status":"Despatched"}})
```

9. Complete Order Sub Functions

```
# to update OrderStatus

def orderStatusUpdate(orderID, orderType):
    if (orderType == 0): #orderType = 0 for fresh products
        orderStatus.insert_one({"fresh order id": orderID, "status":
"Processing"})
    else:
```

```
orderStatus.insert one({"other order id": orderID, "status":
"Dispatched"})
# basketToOrder to proceed items from Basket to Order
def basketToOrder(customerID):
   # Get basket item lists
   basketItemsFresh = []
   basketItemsOther = []
   cursor = shoppingBasket.find({"Customer ID": customerID})
   try:
       cur = shoppingBasket.find one({"Customer ID": customerID})["Basket
Items Fresh"]
   except:
       return "No Basket Found"
   freshPIDs = []
   freshQuantities = []
   freshNames = []
   for doc in cur: #Warning! Don't use distinct because it sorts the result
automatically,
   #Resulting in any situation where product ids, names, and quantities
don't match
        freshPIDs.append(doc["Product ID"])
       freshQuantities.append(doc["Quantity"])
        freshNames.append(doc["Product Name"])
   try:
        cur = shoppingBasket.find one({"Customer ID": customerID})["Basket
Items Other"]
```

```
except:
       return "No Basket Found"
   otherPIDs = []
   otherQuantities = []
   otherNames = []
   for doc in cur:
       otherPIDs.append(doc["Product ID"])
       otherQuantities.append(doc["Quantity"])
       otherNames.append(doc["Product Name"])
   cursor2 = customers.find({" id": customerID})
   customerCoord = cursor2.distinct("Shipping
Address.Coordinates.coordinates")
   shippingAddress = cursor2.distinct("Shipping Address")
   partnerIDs = []
   morrisonIDs = []
   warehouseIDs = []
   # Check inventory and find the nearest warehouses and available partners
   for i in range(len(freshPIDs)):
       availableWarehouses = FindMorrisonWithStock(
           freshPIDs[i], freshQuantities[i])
       morrisonID = FindMorrison(customerCoord, availableWarehouses, 0)
       if(morrisonID == None):
           print("Sorry, we couldn't proceed your order.")
           print(freshNames[i], "is out of stock")
           return
```

```
warehouseCoord = warehouses.find(
            {" id": morrisonID}).distinct("Location.coordinates")
       partnerID = FindPartner(warehouseCoord)
       if(partnerID == None):
           print("Sorry, we couldn't proceed your order.")
           print("All delivery drivers are busy now. Please try again
later")
           return
       if (partnerID not in partnerIDs):
           partnerIDs.append(partnerID)
       morrisonIDs.append(morrisonID)
   for j in range(len(otherPIDs)):
       availableWarehouses = FindMorrisonWithStock(
           otherPIDs[j], otherQuantities[j])
       warehouseID = FindMorrison(customerCoord, availableWarehouses, 1)
       if (warehouseID == None):
           print("Sorry, we couldn't proceed your order.")
           print(otherNames[j], "is out of stock")
           return
       warehouseIDs.append(warehouseID)
   basketItemsFresh = cursor.distinct("Basket Items Fresh")
   shippingCostFresh = cursor.distinct("Shipping Cost Fresh")[0]
   freshCost = cursor.distinct("Fresh Items Cost")[0]
```

```
basketItemsOther = cursor.distinct("Basket Items Other")
   shippingCostOther = cursor.distinct("Shipping Cost Other")[0]
   otherCost = cursor.distinct("Other Items Cost")[0]
   if(not basketItemsFresh and not basketItemsOther):
       print("The basket is empty")
       return
   # Move basket items to current order
   if(len(basketItemsFresh) > 0):
        result = currentOrdersFresh.insert one({"Customer ID": customerID,
'Shipping Address": shippingAddress,
                                                "Current Order Items":
{	t basketItemsFresh} ,
                                                 "Shipping Cost":
shippingCostFresh, "Total Cost": round(freshCost + shippingCostFresh, 2),
                                                "Date": datetime.now(),
"ETA": None, "PartnerID": None})
        # Assign drivers and update ETA with the maximum ETA between
products in the order
       orderID = result.inserted id
       eta = datetime(1, 1, 1)
       for partnerID in partnerIDs:
           eta = max(eta, AssignOrder(partnerID, orderID))
        currentOrdersFresh.update one(
            {" id": orderID}, {"$set": {"ETA": eta, "PartnerID":
partnerIDs}})
```

```
# update OrderStatus
        orderStatusUpdate(orderID, 0)
       update order status despatched (orderID)
   if(len(basketItemsOther) > 0):
        result = currentOrdersOther.insert one({"Customer ID": customerID,
"Shipping Address": shippingAddress,
                                       "Current Order Items":
basketItemsOther,
                                       "Shipping Cost": shippingCostOther,
"Total Cost": round(otherCost + shippingCostOther, 2),
                                       "Date": datetime.now()})
       orderID = result.inserted_id
        # update OrderStatus
       orderStatusUpdate(orderID, 1)
   # Print order details
   if(len(basketItemsFresh) > 0):
       print("Fresh Product details :")
       header = basketItemsFresh[0].keys()
       rows = [x.values() for x in basketItemsFresh]
       print(tabulate.tabulate(rows, header), "\n")
       print("Delivery drivers' locations :")
       for partnerID in partnerIDs:
           partnerLocation = partnerStatus.find one(
                {"Partner ID": partnerID})["Location"]
           print(partnerLocation, "\n")
       print("ETA :", eta, "\n")
       partnerDetails = partners.find one(
```

```
{" id": partnerID}, {" id": 0, "Name": 1, "Average Customer
Rating": 1})
       print("Details of delivery drivers :")
       print(partnerDetails, "\n")
   if(len(basketItemsOther) > 0):
       print("Other Product details :")
       header = basketItemsOther[0].keys()
       rows = [x.values() for x in basketItemsOther]
       print(tabulate.tabulate(rows, header), "\n")
   # update dailyInventoryLevel by deducting quantities of ordered products
from chosen warehouses
   for i in range(len(freshPIDs)):
       result = inventory.update one({"Product.Product ID": freshPIDs[i],
'Warehouse ID": morrisonIDs[i]}, {
            "$inc": {"Stock Level": -freshQuantities[i]}})
       if result.modified count == 0:
           return "Error: Failed to update inventory(Fresh)"
   for j in range(len(otherPIDs)):
       result = inventory.update one({"Product.Product ID": otherPIDs[j],
Warehouse ID": warehouseIDs[j]}, {
            "$inc": {"Stock Level": -otherQuantities[j]}})
       if result.modified count == 0:
           return "Error: Failed to update inventory(Other)"
   #return order information
   # remove items from basket
```

```
shoppingBasket.delete_one({"Customer ID": customerID})

return "Success: Item has been ordered"
```

10. CompleteOrder

```
def CompleteOrder (fresh_order_id):
 db.OrderStatus.update one({"fresh order
id":fresh_order_id},{"$set":{"status":"Delivered"}})
 order = db.CurrentOrdersFresh.find one({" id":fresh order id})
 db.PastOrders.insert one(order)
 db.CurrentOrdersFresh.delete_one({" id":fresh order_id})
 db.PartnerStatus.update one({"Current Order": fresh order id}, {"$pull":
{"Orders":fresh order id}})
 cursor = db.PartnerStatus.find_one({"Current Order": fresh_order_id})
 if not cursor["Orders"]:
   db.PartnerStatus.update_one({"_id":cursor["_id"]}, {"$set":{"Delivery
Progress": "Not on Errand"}})
 db.PartnerStatus.update_one({"Current Order": fresh_order_id}, [{"$set":
{"Current Order":{"$arrayElemAt":["$Orders",0]}}}])
```

11. Top 10 Products Graph Function

```
def Top_10_Products_by_Revenue(PastOrders):
    plt.figure(figsize=(10, 8))
```

12. Total Revenue per Customer Graph Function

```
def Total_Revenue_per_Customer(PastOrders):
    plt.figure(figsize=(10, 8))
    datapoints = list(db.Customers.find({}))
    df1 = pd.json_normalize(datapoints)
    df1=df1.iloc[:,:2]
    datapoints = list(db.PastOrders.find({}))
    df2 = pd.json_normalize(datapoints)
    df_sales= df2[['Customer ID','Total Cost']]
    df_sales = df_sales.rename({'Customer ID': '_id', 'Total Cost': 'Sales'},
    axis=1) # new method
    df_sales = pd.merge(df_sales,df1, on='_id', how='left')
    df_sales = df_sales.rename({'Name': 'Customer'}, axis=1) # new method
    a=df_sales.groupby(by=['Customer'])['Sales'].sum().sort_values(ascending=True)
    rep_plot =a.plot(kind='barh', grid=True)
```

```
rep_plot.set_ylabel("Customer Name", fontdict={'fontsize': 12,
'fontweight' : 5, 'color' : 'Brown'})

rep_plot.set_xlabel("Revenue (£)", fontdict={'fontsize': 12, 'fontweight'
: 5, 'color' : 'Brown'})

plt.title('Total Revenue per Customer \n', fontdict={'fontsize': 20,
'fontweight' : 5, 'color' : 'Black'})

plt.savefig('Total_Revenue_per_Customer.png')

return plt.show()
```

13. Total_Sales_Over_Time function

```
def Total Sales Over Time(PastOrders, year):
 plt.figure(figsize=(10, 8))
 year=int(year)
 datapoints = list(PastOrders.find({}))
 df = pd.json normalize(datapoints)
 df=df[["Date",'Total Cost']]
 df['year'] = df['Date'].dt.year
 df['month'] = df['Date'].dt.month
 import calendar
 df['Month'] = df['month'].apply(lambda x: calendar.month abbr[x])
 months = ["Jan", "Feb", "Mar", "Apr", "May", "Jun",
          "Jul", "Aug", "Sep", "Oct", "Nov", "Dec"]
 df['Month'] = pd.Categorical(df['Month'], categories=months, ordered=True)
 df=df[["Total Cost",'year','Month']]
 df = df.rename({'Total Cost': 'Sales','year' : 'Year'}, axis=1)
 df =df[df['Year']== year]
 df=df.groupby('Month',
as index=False)['Sales'].sum().rename(columns={'Month' : 'Month'})
 months=df['Month']
 sales=df['Sales']
 plt.plot(months, sales)
```

```
# Adding and formatting title
 r="Total Sales across " + str(year) + "\n"
 plt.title(r, fontdict={'fontsize': 20, 'fontweight' : 5, 'color' :
Black'})
# Labeling Axes
 plt.xlabel("Months", fontdict={'fontsize': 12, 'fontweight' : 5, 'color' :
Brown'})
 plt.ylabel("Sales in thousands (£)", fontdict={'fontsize': 12,
fontweight' : 5, 'color' : 'Brown'} )
 ticks = np.arange(0, max(sales)+1500, 1000)
 labels = ["{}".format(i//1000) for i in ticks]
 plt.yticks(ticks, labels)
 plt.xticks(rotation=90)
 for xy in zip(months, sales):
   plt.annotate(s = \{0:.2f\}\".format(xy[1]/1000), xy = xy,
textcoords='data')
 plt.savefig('Total_Sales_Over_Time.png')
 return plt.show()
```

14. Revenue by Tag Function

```
def Revenue_by_tag(Products, Type):
    global Graph_type
    global Graph_type2
    if Type == 'Top':
        Graph_type=False
```

```
Graph type2=True
 else:
   Graph type= True
   Graph_type2=False
 datapoints = list(Products.find({}))
 df1 = pd.json normalize(datapoints)
 pd.set_option('display.max_columns', None)
 df1.head(1)
 df1=df1[[' id','tags']]
 df1
 df5=pd.DataFrame(df1.tags.values.tolist()).add_prefix('tag_')
 df1 = df1.join(df5)
 df1 = df1.rename({' id': 'Product ID'}, axis=1) # new method
 datapoints = list(db.PastOrders.find({}))
 df8 = pd.json_normalize(datapoints, record_path=['Past Order Items'],
meta=['Total Cost', 'Date', ])
 df8=df8.iloc[:,:4]
 df8['Total Revenue Contribution']=df8['Price']*df8['Quantity']
 df8
 df8 = pd.merge(df8,df1, on='Product ID', how='left')
 df15=df8.groupby('tag 0', as index=False)['Total Revenue
Contribution'].sum().rename(columns={'Total Revenue Contribution' :
'Month'})
 df16=df8.groupby('tag_1', as_index=False)['Total Revenue
Contribution'].sum().rename(columns={'Total Revenue Contribution' :
Month ' } )
```

```
df17=df8.groupby('tag 2', as index=False)['Total Revenue
Contribution'].sum().rename(columns={'Total Revenue Contribution' :
'Month'})
 df18=df8.groupby('tag 3', as index=False)['Total Revenue
Contribution'].sum().rename(columns={'Total Revenue Contribution' :
'Month'})
 df19=df8.groupby('tag_4', as_index=False)['Total Revenue
Contribution'].sum().rename(columns={'Total Revenue Contribution' :
'Month'})
 df15 = df15.rename({'tag 0': 'tag'}, axis=1) # new method
 df16 = df16.rename({'tag_1': 'tag'}, axis=1) # new method
 df17 = df17.rename({'tag_2': 'tag'}, axis=1) # new method
 df18 = df18.rename({'tag 3': 'tag'}, axis=1) # new method
 df19 = df19.rename({'tag 4': 'tag'}, axis=1) # new method
 df20 = pd.merge(df15, df16, on='tag', how='outer').merge(df17, on='tag',
how='outer')
 df20=df20.fillna(0)
 df20['Total']=df20['Month x']+df20['Month y']+df20['Month']
 df20=df20[['tag','Total']]
 df20 = pd.merge(df20,df18, on='tag', how='outer').merge(df19, on='tag',
how='outer')
 df20=df20.fillna(0)
 df20['Total1']=df20['Month x']+df20['Month y']+df20['Total']
 df20=df20[['tag','Total1']]
```

```
df21=df20.sort values(by='Total1', ascending=Graph type)
 df21=df21[:10]
 df21 = df21.reset index(drop=True)
 df20.to csv('tags by revenue.csv')
 a=df21.groupby(by=['tag'])['Total1'].sum().sort values(ascending=
Graph_type2)
 plt.figure(figsize=(10, 8))
 rep plot =a.plot(kind='barh', grid=True)
 rep plot.set ylabel("Tag Name", fontdict={'fontsize': 12, 'fontweight' :
5, 'color' : 'Brown'})
 rep plot.set xlabel("Revenue Generated (£)", fontdict={'fontsize': 12,
'fontweight' : 5, 'color' : 'Brown'})
 if Type == 'Top':
   plt.title('Top 10 Tags by Total Revenue \n', fontdict={'fontsize': 20,
fontweight' : 5, 'color' : 'Black'})
 else:
   plt.title('Lowest 10 Tags by Total Revenue \n', fontdict={'fontsize':
20, 'fontweight' : 5, 'color' : 'Black'})
 if Type == 'Top':
   plt.savefig('Top 10 Total Revenue per Tag.png')
 else:
   plt.savefig('Lowest Performing Tags by Revenue.png')
 return plt.show()
```

15. Recommender System

```
def get_n_top_rated_products(n: int):
   id_list = []
   rating_list = []
```

```
col = db.AverageProductRatings
   q = col.aggregate([{"$group":{
        " id": {"Product ID": "$product id"},
        "rating": {"$sum": "$average rating"}
   }}, {"$sort": {"rating": -1, " id": 1}}, {"$limit": n}])
   for doc in q:
        id list.append(doc[" id"]["Product ID"])
       rating_list.append(doc["rating"])
   prod_list = []
   col = db.Products
   for id in id list:
       q = col.find_one({"_id": id})
       prod_list.append(q)
   return prod_list, rating_list
def add products to recommended(prod list: list, ratings: list, customer id:
int):
   col = db.RecommendedProducts
   reduced_prod_list = []
   for prod in prod list:
       i = 0
       reduced_prod = {
            "product id": prod[" id"],
            "name": prod["name"],
            "price": prod["standardPrice"],
            "average rating": ratings[i]
        }
       i += 1
        reduced_prod_list.append(reduced_prod)
   recommendation = {
```

```
"Customer ID": customer id,
        "Products": reduced prod list
   }
   col.insert one(recommendation)
def get user tags(customer id):
   tags = []
   products_bought = []
   col = db.PastOrders
   q = col.find({"Customer ID": customer_id})
   for doc in q:
       for product in doc["Past Order Items"]:
            products_bought.append(product["Product ID"])
   col = db.Products
   q = col.find({" id": {"$in": products bought}})
   for doc in q:
        tags.extend(doc["tags"])
   counts = dict()
   for i in tags:
       counts[i] = counts.get(i, 0) + 1
   counts = dict(sorted(counts.items(), key=lambda item: item[1],
reverse=True))
   top tags = list(counts.keys())
   count = 0
   tag num = 0
   prod_list = []
   rating_list = []
   while count < 2 or tag_num == len(top_tags):</pre>
       q = col.find({"tags": {"$in": [top_tags[tag_num]]}})
       for doc in q:
```

```
if count < 2:
               prod list.append(doc)
                count += 1
        tag_num += 1
   col = db.AverageProductRatings
   ids = [prod[" id"] for prod in prod list]
   for id in ids:
       q = col.find one({"product id": id})
       if q is not None:
           rating list.append(q["average rating"])
   if count < 2:
       prods, rats = get_n_top_rated_products(2-count)
       prod_list.extend(prods)
       rating_list.extend(rats)
   return prod list, rating list
collection = db.RecommendedProducts
collection.delete_many({})
collection = db.PastOrders
cursor = collection.aggregate([{"$group":{
   " id": {"Customer ID": "$Customer ID"},
   "count": {"$sum": 1}
}}, {"$sort": {"_id": 1}}])
for doc in cursor:
   if doc["count"] == 0:
        top_rated, top_ratings = get_n_top_rated_products(2)
   else:
        top_rated, top_ratings = get_user_tags(doc["_id"]["Customer ID"])
   add_products_to_recommended(top_rated, top_ratings, doc["_id"]["Customer
ID"])
```

```
collection = db.ProductRatings
average product ratings = []
ids = []
cursor = collection.aggregate([{"$group":{
  " id": {"Product ID": "$Product ID"},
  "totalRatings": {"$sum": "$Product Rating"},
   "numRatings": {"$sum": 1}
}}, {"$sort": {"_id": 1}}])
for doc in cursor:
  ids.append(doc[" id"]["Product ID"])
average_product_ratings.append(round(doc["totalRatings"]/doc["numRatings"],
2))
collection = db.AverageProductRatings
avr list = []
for i in range(len(ids)):
  q = collection.find_one({"_id": ids[i]})
  if q is None:
      avr_dict = {
           "product id": ids[i],
           "average rating": average_product_ratings[i]
           }
      avr_list.append(avr_dict)
  else:
      collection.update one(
           {"product id": ids[i]},
           {"$set": {"average rating": average_product_ratings[i]}}
```

```
collection.insert_many(avr_list)
```

END

```
CUSTOMERS JSON
    "$oid": "63b8707d066488245e595983"
 "Name": "John Doe",
  "Age": 25,
  "Gender": "Male",
  "Shipping Address": {
    "HouseNum": 23,
    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AA",
    "Coordinates": {
     "type": "Point",
      "coordinates": [
       -2.23404,
       53.48305
      ]
    }
 },
  "Billing Address": {
    "HouseNum": 23,
    "Street": "Maplewood Gardens",
    "City": "Lancaster",
    "Postcode": "LA23PE"
} , {
  "_id": {
   -
"$oid": "63b8707d066488245e595985"
 "Name": "Nikodemos Hero",
  "Age": 45,
  "Gender": "Male",
  "Shipping Address": {
   "HouseNum": 53,
    "Street": "PomodoroD",
    "City": "Manchester",
    "Postcode": "M11AE",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
       -2.23116,
        53.48351
      ]
    }
  } ,
  "Billing Address": {
    "HouseNum": 53,
    "Street": "PomodoroD",
    "City": "York",
    "Postcode": "D43523"
 }
} , {
  " id": {
   "$oid": "63b8707d066488245e595987"
 "Name": "Markos Voss",
```

```
"Age": 47,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 119,
   "Street": "Zindrive",
   "City": "Manchester",
   "Postcode": "M11AQ",
   "Coordinates": {
      "type": "Point",
      "coordinates": [
       -2.23035,
       53.48312
     ]
   }
 },
 "Billing Address": {
   "HouseNum": 119,
   "Street": "Zindrive",
   "City": "Blacksburg",
   "Postcode": "342423"
}, {
 " id": {
  "$oid": "63b8707d066488245e595990"
 "Name": "Ali Atif",
 "Age": 25,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 35,
   "Street": "Stretford Road",
   "City": "Manchester",
   "Postcode": "M125AB",
   "Coordinates": {
     "type": "Point",
      "coordinates": [
       -2.19743,
       53.4673
     ]
   }
 },
 "Billing Address": {
   "HouseNum": 35,
   "Street": "Stretford Road",
   "City": "Manchester",
   "Postcode": "M155WQ"
} , {
 " id": {
  "$oid": "63b8707d066488245e59598b"
 "Name": "Chakrapani Camelhoops",
 "Age": 23,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 117,
   "Street": "Kappaloom",
   "City": "Manchester",
```

```
"Postcode": "M111NR",
    "Coordinates": {
      "type": "Point",
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        53.46961
     1
    }
 },
  "Billing Address": {
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    "Street": "Kappaloom",
   "City": "Kamloops",
   "Postcode": "K12 123"
} , {
  " id": {
  "$oid": "63b8707d066488245e59598d"
 } ,
 "Name": "Navneet Revenant",
  "Age": 23,
  "Gender": "Male",
 "Shipping Address": {
    "HouseNum": 123,
    "Street": "Zaun",
    "City": "Manchester",
    "Postcode": "M124UU",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
       -2.20688,
        53.46332
      1
    }
 },
  "Billing Address": {
   "HouseNum": 123,
   "Street": "Zaun",
   "City": "Piltover",
    "Postcode": "L12233"
},{
  " id": {
  -14 . "soid": "63b8707d066488245e595996"
 },
 "Name": "Katrina Kaif",
 "Age": 45,
  "Gender": "Female",
 "Shipping Address": {
    "HouseNum": 16,
    "Street": "Tariq Road",
    "City": "Manchester",
    "Postcode": "M125AA",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
       -2.19743,
        53.4673
```

```
}
 },
 "Billing Address": {
   "HouseNum": 16,
   "Street": "Manley Road",
   "City": "Manchester",
   "Postcode": "M145DS"
} , {
 " id": {
  "$oid": "63b8707d066488245e595997"
 "Name": "Divesha Prasad",
 "Age": 17,
 "Gender": "Female",
 "Shipping Address": {
   "HouseNum": 420,
   "Street": "Element",
   "City": "Manchester",
   "Postcode": "M14 5DT",
   "Coordinates": {
     "type": "Point",
      "coordinates": [
       -2.21144,
       53.45434
 } ,
 "Billing Address": {
   "HouseNum": 43,
   "Street": "Hackearth",
   "City": "Bombay",
   "Postcode": "B42 069"
} , {
 " id": {
   "$oid": "63b8707d066488245e595986"
 "Name": "Plinius Dubicki",
 "Age": 25,
 "Gender": "Female",
 "Shipping Address": {
   "HouseNum": 76,
   "Street": "Oakwood Drive",
   "City": "Manchester",
   "Postcode": "M11AG",
   "Coordinates": {
     "type": "Point",
      "coordinates": [
       -2.23138,
        53.48333
     ]
 "Billing Address": {
   "HouseNum": 76,
   "Street": "Oakwood Drive",
```

```
"City": "Seattle",
   "Postcode": "H23G43"
 }
} , {
 "_id": {
   -
"$oid": "63b8707d066488245e59598a"
 "Name": "Adil Fazulrahman",
 "Age": 22,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 69,
   "Street": "Kangaroo Drive",
   "City": "Manchester",
   "Postcode": "M111NQ",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.16683,
       53.47479
     ]
   }
 "Billing Address": {
   "HouseNum": 69,
   "Street": "Kangaroo Drive",
   "City": "Adelaide",
   "Postcode": "AD3321"
} , {
 "_id": {
   -
"$oid": "63b8707d066488245e59598c"
 "Name": "Deva Ravichanda",
 "Age": 20,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 56,
   "Street": "Sumrift",
   "City": "Manchester",
   "Postcode": "M124UR",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.20683,
       53.46454
     ]
   }
 } ,
 "Billing Address": {
   "HouseNum": 56,
   "Street": "Sumrift",
   "City": "Ionia",
   "Postcode": "IO2213"
 " id": {
```

```
"Name": "Sad Orphan",
 "Age": 24,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 16,
   "Street": "Sundrive",
   "City": "Manchester",
   "Postcode": "M124WJ",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.19486,
       53.46034
     1
   }
 } ,
 "Billing Address": {
   "HouseNum": 16,
   "Street": "Sundrive",
   "City": "Liverpool",
   "Postcode": "LI1D34"
} , {
 " id": {
  "$oid": "63b8707d066488245e59598f"
 },
 "Name": "Aishwarya Rai",
 "Age": 24,
 "Gender": "Female",
 "Shipping Address": {
   "HouseNum": 201,
   "Street": "Luneside",
   "City": "Manchester",
   "Postcode": "M124XZ",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.21903,
       53.46729
     1
   }
 "Billing Address": {
   "HouseNum": 201,
   "Street": "Luneside",
   "City": "Lancaster",
   "Postcode": "LA15QT"
} , {
  "$oid": "63b8707d066488245e595991"
 "Name": "Soomin Young",
 "Age": 39,
 "Gender": "Other",
 "Shipping Address": {
   "HouseNum": 420,
```

```
"Street": "Element",
   "City": "Manchester",
   "Postcode": "M125AD",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.19566,
       53.47109
     ]
 },
 "Billing Address": {
   "HouseNum": 420,
   "Street": "Element",
   "City": "Manchester",
   "Postcode": "M145DT"
}, {
  "Name": "Rayan Hashbrown",
 "Age": 22,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 16,
   "Street": "Manley Road",
   "City": "Manchester",
   "Postcode": "M145DS",
   "Coordinates": {
     "type": "Point",
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       53.45502
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   }
 } ,
 "Billing Address": {
   "HouseNum": 16,
   "Street": "Manley Road",
   "City": "Manchester",
   "Postcode": "M14 5DS"
} , {
 " id": {
  "$oid": "63b8707d066488245e595984"
 "Name": "Praveen Panther",
 "Age": 23,
 "Gender": "Female",
 "Shipping Address": {
   "HouseNum": 12,
   "Street": "Pdrive",
"City": "Manchester",
   "Postcode": "M11AD",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
```

```
-2.24469,
       53.48371
     1
   }
 },
 "Billing Address": {
   "HouseNum": 12,
   "Street": "Pdrive",
   "City": "Chicago",
   "Postcode": "A23432"
} , {
 "_id": {
   "Name": "Areej Styles",
 "Age": 23,
 "Gender": "Female",
 "Shipping Address": {
   "HouseNum": 24,
   "Street": "Maplewood Gardens",
   "City": "Manchester",
   "Postcode": "M11AS",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.23404,
       53.48305
     ]
 },
 "Billing Address": {
   "HouseNum": 24,
   "Street": "Maplewood Gardens",
   "City": "Edinburgh",
   "Postcode": "E32341"
 }
} , {
 "_id": {
   "Name": "Hunain Sabzi",
 "Age": 24,
 "Gender": "Male",
 "Shipping Address": {
   "HouseNum": 34,
   "Street": "New India",
   "City": "Manchester",
   "Postcode": "M11AR",
   "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.23141,
       53.48358
     ]
   }
 "Billing Address": {
```

```
"HouseNum": 34,
    "Street": "New India",
    "City": "Raonoke",
    "Postcode": "RN2231"
} , {
  " id": {
   "Name": "Hadhry Haslimejuice",
  "Age": 14,
  "Gender": "Male",
  "Shipping Address": {
    "HouseNum": 12,
    "Street": "Rusholme",
    "City": "Manchester",
    "Postcode": "M11JG",
    "Coordinates": {
     "type": "Point",
      "coordinates": [
       -2.23633,
       53.48233
     ]
  "Billing Address": {
   "HouseNum": 12,
    "Street": "Rusholme",
    "City": "Manchester",
    "Postcode": "M133DT"
},{
  " id": {
  "$oid": "63b8707d066488245e595993"
  "Name": "Yanfei Shaun",
  "Age": 17,
  "Gender": "Female",
  "Shipping Address": {
   "HouseNum": 83,
    "Street": "Hulme Street",
    "City": "Manchester",
    "Postcode": "M146QL",
    "Coordinates": {
     "type": "Point",
     "coordinates": [
       -2.21023,
       53.44017
     1
    }
  "Billing Address": {
   "HouseNum": 83,
    "Street": "Hulme Street",
    "City": "Manchester",
    "Postcode": "M13 D33"
}, {
```

```
"_id": {
    "$oid": "63b8707d066488245e595994"
  "Name": "Ahsan Passion",
  "Age": 69,
  "Gender": "Other",
  "Shipping Address": {
    "HouseNum": 69,
    "Street": "Ann",
    "City": "Manchester",
    "Postcode": "M145ET",
    "Coordinates": {
      "type": "Point",
     "coordinates": [
       -2.21648,
       53.45699
     ]
    }
  } ,
  "Billing Address": {
    "HouseNum": 69,
    "Street": "Ann",
    "City": "Summers",
    "Postcode": "M14 G4Y"
  }
} ]
```

```
PRODUCTS JSON
    "$oid": "63b5aebe10540422a4a51451"
  "name": "Bottled Water",
  "description": "Bottled spring water",
  "dimensions": "10x5x5cm",
  "weight": 4.91,
  "category": "drinks",
  "standardPrice": 1.1,
  "costFromSupplier": 0.63,
  "expiryDate": {
    "$date": {
      "$numberLong": "1735603200000"
    }
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "drink",
    "healthy"
} , {
  " id": {
  "$oid": "63b5aebe10540422a4a51444"
  "name": "Croissant",
  "description": "Freshly baked all butter croissant",
"dimensions": "15x5x2cm",
  "weight": 3.04,
  "category": "bakery",
  "standardPrice": 0.6,
  "costFromSupplier": 0.26,
  "expiryDate": {
    "$date": {
      "$numberLong": "1672099200000"
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "baked",
    "pastry"
},{
  " id": {
  "$oid": "63b5aebe10540422a4a51452"
  "name": "Peach",
  "description": "Flat peach",
  "dimensions": "4x4x4cm",
  "weight": 0.69,
  "category": "fruits",
  "standardPrice": 0.6,
  "costFromSupplier": 0.35,
  "expiryDate": {
    "$date": {
      "$numberLong": "1680134400000"
```

```
"countryOfOrigin": "Spain",
  "tags": [
   "fruit",
   "healthy"
} , {
  "$oid": "63b5aebe10540422a4a51454"
 },
 "name": "Nokia N95",
 "description": "Nokia N95",
 "dimensions": "15x5x2cm",
 "weight": 0.2,
 "category": "mobile phone",
 "standardPrice": 50,
 "costFromSupplier": 29.69,
 "brand": "Nokia",
 "model": "N95",
"colour": "Black",
 "features": [
   "Integrated GPS ability",
    "Multimedia features",
    "Internet",
    "Accelerometer",
    "N-Gage"
 ],
 "tags": [
    "Microsoft",
    "budget"
}, {
  " id": {
  "$oid": "63b5aebe10540422a4a51458"
 "name": "OnePlus Nord",
 "description": "OnePlus Nord",
 "dimensions": "15x5x2cm",
 "weight": 0.2,
 "category": "mobile phone",
 "standardPrice": 300,
 "costFromSupplier": 105.57,
 "brand": "OnePlus",
 "model": "Nord",
  "colour": "Forest Green",
 "features": [
    "Fingerprint (under display, optical)",
   "Accelerometer",
   "Gyro",
   "Proximity",
    "Compass"
 ],
  "tags": [
   "Android",
   "Budget"
},{
 " id": {
```

```
"$oid": "63b5aebe10540422a4a51459"
},
"name": "Sony Xperia XZ",
"description": "Sony Xperia XZ",
"dimensions": "15x5x2cm",
"weight": 0.2,
"category": "mobile phone",
"standardPrice": 60,
"costFromSupplier": 27.26,
"brand": "Sony",
"model": "Xperia XZ",
"colour": "Black",
"features": [
  "Fingerprint (side-mounted)",
  "Accelerometer",
  "Gyro",
  "Proximity",
  "Barometer",
  "Compass",
  "Colour Spectrum"
],
"tags": [
  "Android",
  "Budget"
" id": {
"$oid": "63b5aebe10540422a4a5145b"
} ,
"name": "Apple iPhone XS",
"description": "Apple iPhone XS",
"dimensions": "15x5x2cm",
"weight": 0.2,
"category": "mobile phone",
"standardPrice": 900,
"costFromSupplier": 408.44,
"brand": "Apple",
"model": "iPhone XS",
"colour": "Midnight Blue",
"features": [
  "Face ID",
  "Accelerometer",
  "Gyro",
  "Proximity",
  "Compass",
  "Barometer"
],
"tags": [
  "IOS",
  "budget"
1
" id": {
"$oid": "63b5aebe10540422a4a51460"
"name": "NOW That's What I Call Music! 113",
"description": "NOW That's What I Call Music! 113",
"dimensions": "142 x 125 x 10 mm",
```

```
"weight": 0.02,
  "category": "cd",
  "standardPrice": 11.99,
  "costFromSupplier": 4.19,
  "artistName": "Various Artists",
  "numberOfTracks": 48,
  "totalPlayingTime": 165.18,
  "publisher": "NOW",
  "tags": [
    "Party",
    "Mashup",
    "Trending",
   "Remix"
 1
} , {
  " id": {
   "name": "Michael Ball/Alfie Boe: Together in Vegas",
  "description": "Michael Ball/Alfie Boe: Together in Vegas",
  "dimensions": "142 x 125 x 10 mm",
  "weight": 0.02,
  "category": "cd",
  "standardPrice": 7.99,
  "costFromSupplier": 3.04,
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   "City": "Manchester",
   "Postcode": "M123GB"
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 "Age": 36,
 "Gender": "Male",
 "Address": {
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   "City": "Manchester",
   "Postcode": "M155QD"
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 "Age": 25,
  "Gender": "Female",
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      "Quantity": 1,
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Current Orders Fresh JSON

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     "Quantity": 83
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      "Quantity": 83
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      "Quantity": 83
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    "Price": 1.3,
    "Quantity": 83
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    "Price": 0.6,
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    "Quantity": 83
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      "Quantity": 83
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      "Price": 1.1,
      "Quantity": 83
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      "Product ID": {
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      "Product Name": "Muffin",
      "Price": 0.8,
     "Quantity": 83
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      "Quantity": 83
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      "Price": 0.7,
      "Quantity": 83
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      "Product ID": {
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      "Product Name": "Bread Loaf",
      "Price": 1.2,
      "Quantity": 83
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      "Price": 0.8,
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      "Quantity": 83
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      "Price": 0.6,
      "Quantity": 83
   },
      "Product ID": {
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     "Product Name": "Lemonade",
     "Price": 2.5,
      "Quantity": 83
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      "Quantity": 83
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      "Product ID": {
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     "Product Name": "Orange Juice",
      "Price": 2.1,
      "Quantity": 83
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     "Price": 0.8,
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      "Price": 0.5,
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      "Quantity": 83
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      "Price": 1.1,
      "Quantity": 83
   },
      "Product ID": {
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      "Price": 1.2,
      "Quantity": 83
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      "Quantity": 83
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      "Quantity": 83
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      "Price": 2.5,
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    "Postcode": "M11AG",
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      "Quantity": 83
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      "Price": 1.35,
      "Quantity": 83
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      "Quantity": 83
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      "Price": 0.6,
      "Quantity": 83
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     "Quantity": 83
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      "Price": 0.4,
      "Quantity": 83
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    "City": "Manchester",
    "Postcode": "M11AA",
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       53.48305
      ]
    }
  },
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        "$oid": "63b5aebe10540422a4a5145d"
      "Product Name": "There's Nothing But Space, Man!",
      "Price": 7.99,
      "Quantity": 4,
      "Weight": 0.02
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  "Date": {
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  "Shipping Address": {
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    "Street": "Pdrive",
    "City": "Manchester",
    "Postcode": "M11AD",
    "Coordinates": {
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      "Weight": 0.2
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      "Price": 319,
      "Quantity": 3, "Weight": 10.5
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      "Product Name": "Samsung AU7100 50 Inch 4K HDR Smart TV",
      "Price": 377.97,
      "Quantity": 2,
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    "Postcode": "M11AA",
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 "Past Order Items": [
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     "Quantity": 1,
      "Weight": 0.223
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     "Price": 8.99,
      "Quantity": 5,
      "Weight": 0.403
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"Product ID": {
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Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 2,
      "Weight": 81.176
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    }
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      "Price": 11.99,
      "Quantity": 3,
      "Weight": 0.02
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  "Shipping Cost": 0,
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    "Postcode": "M11AA",
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      "Price": 1200,
      "Quantity": 3,
      "Weight": 0.2
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      "Product Name": "Miele 14 Place Settings Fully Integrated
Dishwasher",
     "Price": 999.97,
      "Quantity": 2,
      "Weight": 93.3
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  "Total Cost": 5639.94,
  "Date": {
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  "Shipping Address": {
    "HouseNum": 12,
    "Street": "Pdrive",
    "City": "Manchester",
    "Postcode": "M11AD",
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        "$oid": "63b5aebe10540422a4a51448"
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      "Price": 2.1,
      "Quantity": 41
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  "Shipping Cost": 0,
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  "Date": {
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  "Shipping Address": {
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    "City": "Manchester",
    "Postcode": "M11AD",
    "Coordinates": {
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        53.48371
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       "$oid": "63b5aebe10540422a4a51474"
      "Product Name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm
Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 5,
      "Weight": 81.176
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     "Price": 60,
      "Quantity": 2,
      "Weight": 0.2
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     "Price": 900,
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      "Weight": 0.2
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      "Quantity": 2,
      "Weight": 0.607
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   "Street": "Pdrive",
   "City": "Manchester",
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"Product ID": {
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      "Quantity": 1,
      "Weight": 0.28
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a5145f"
     "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
     "Price": 9.99,
     "Quantity": 4,
     "Weight": 0.02
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     "Price": 16.99,
      "Quantity": 1,
      "Weight": 0.85
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   "City": "Manchester",
   "Postcode": "M11AE",
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     "coordinates": [
       -2.23116,
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 "Past Order Items": [
     "Product ID": {
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"Product Name": "Cola",
      "Price": 1.3,
      "Quantity": 17
   },
      "Product ID": {
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     "Product Name": "Lemon",
      "Price": 0.4,
      "Quantity": 89
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       "$oid": "63b5aebe10540422a4a51444"
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      "Price": 0.6,
      "Quantity": 75
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"Price": 700,
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     "Product Name": "Nokia N95",
      "Price": 50,
      "Quantity": 3,
      "Weight": 0.2
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     "Product Name": "Dyson V8 Absolute Cordless Stick Vacuum Cleaner",
      "Price": 299,
      "Quantity": 4,
      "Weight": 2.6
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   "City": "Manchester",
   "Postcode": "M11AG",
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       53.48333
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 "Past Order Items": [
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      "Product ID": {
       "$oid": "63b5aebe10540422a4a51461"
     "Product Name": "Only the Strong Survive",
      "Price": 11.99,
      "Quantity": 2,
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"Weight": 0.02
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      "Product ID": {
       "$oid": "63b5aebe10540422a4a51453"
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     "Price": 400,
      "Quantity": 5,
      "Weight": 0.2
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 "Shipping Cost": 20,
 "Total Cost": 2043.98,
 "Date": {
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     "Product Name": "Sony Xperia XZ",
     "Price": 60,
     "Quantity": 1,
      "Weight": 0.2
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     "Price": 9.99,
     "Quantity": 5,
     "Weight": 0.52
   },
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     "Price": 7.99,
     "Quantity": 5,
     "Weight": 0.02
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   "Postcode": "M11AG",
   "Coordinates": {
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     "Product Name": "Orange Juice",
     "Price": 2.1,
     "Quantity": 26
   },
     "Product ID": {
       "$oid": "63b5aebe10540422a4a51445"
     "Product Name": "Energy Drink",
     "Price": 1.35,
     "Quantity": 87
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 "Date": {
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    "Postcode": "M11AG",
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    }
  },
  "Past Order Items": [
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     "Product Name": "Dyson V8 Absolute Cordless Stick Vacuum Cleaner",
      "Price": 299,
      "Quantity": 1,
      "Weight": 2.6
    },
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      "Product Name": "Samsung Series 4 9kg 1400 Spin Freestanding
Washing Machine",
      "Price": 456.97,
      "Quantity": 5,
      "Weight": 67
    }
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  "Shipping Cost": 40,
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    "City": "Manchester",
    "Postcode": "M11AQ",
    "Coordinates": {
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      "coordinates": [
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        53.48312
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    }
  } ,
  "Past Order Items": [
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      "Product Name": "The Atlas Six",
      "Price": 8.99,
      "Quantity": 1,
      "Weight": 0.403
    },
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      "Product Name": "Sony Xperia XZ",
      "Price": 60,
      "Quantity": 4,
      "Weight": 0.2
    },
      "Product ID": {
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      "Product Name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm
Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 3,
      "Weight": 81.176
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   "City": "Manchester",
   "Postcode": "M11AQ",
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     ]
   }
 } ,
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     "Price": 0.4,
     "Quantity": 80
   }
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   "City": "Manchester",
   "Postcode": "M11AS",
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        53.48305
     ]
   }
 "Past Order Items": [
   {
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     "Quantity": 71
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   "Street": "Kappaloom",
   "City": "Manchester",
   "Postcode": "M111NR",
   "Coordinates": {
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     "coordinates": [
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   }
 "Past Order Items": [
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      "Price": 1.3,
      "Quantity": 61
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      "Product ID": {
       "$oid": "63b5aebe10540422a4a5144a"
     "Product Name": "Bread Loaf",
      "Price": 1.2,
      "Quantity": 82
   },
      "Product ID": {
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      "Price": 1.1,
      "Quantity": 83
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 "Shipping Cost": 0,
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      "Price": 0.5,
      "Quantity": 17
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      "Price": 7.99,
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      "Weight": 0.2
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     "Quantity": 2,
      "Weight": 0.863
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     "Price": 9.99,
     "Quantity": 5,
     "Weight": 0.02
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     "Price": 0.6,
     "Quantity": 58
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      "Weight": 0.2
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     "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
     "Price": 9.99,
      "Quantity": 3,
      "Weight": 0.02
   },
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      "Quantity": 2,
     "Weight": 0.28
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      "Weight": 0.02
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Freestanding Washer Dryer",
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      "price": 18.99,
      "average rating": 3.86
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      "price": 499,
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     "price": 600,
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      "Price": 8.99,
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      "Weight": 0.2
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Air Purifier with 3-in-1 Advanced Filter",
      "Price": 179.99,
      "Quantity": 3,
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      "Weight": 0.2
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      "Price": 9.99,
      "Quantity": 3,
      "Weight": 0.223
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      "Product ID": {
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Oven",
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"Price": 499,
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      "Quantity": 26
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Dishwasher",
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      "Quantity": 2,
      "Weight": 93.3
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      "Weight": 0.223
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      "Price": 0.8,
      "Quantity": 34
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     "Product Name": "Bottled Water",
     "Price": 1.1,
     "Quantity": 74
   }
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 "Fresh Items Cost": 81.4,
 "Other Items Cost": 0,
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 "Shipping Cost Other": 0,
 "Total Cost": 81.4
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     "Quantity": 2,
     "Weight": 0.2
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     "Quantity": 1,
     "Weight": 0.02
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     "Price": 1.2,
     "Quantity": 81
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     },
     "Product Name": "Stone Blind",
     "Price": 18.99,
     "Quantity": 1,
     "Weight": 0.607
   }
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     "Price": 11.99,
     "Quantity": 3,
     "Weight": 0.02
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  "Basket Items Other": [
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     "Price": 9.99,
     "Quantity": 2,
     "Weight": 0.02
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     "Product ID": {
       "$oid": "63b5aebe10540422a4a51479"
     "Product Name": "KitchenAid Classic 4.3L Stand Mixer",
     "Price": 319,
     "Quantity": 1,
     "Weight": 10.5
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 "Other Items Cost": 338.98,
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     "Price": 0.5,
      "Quantity": 67
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 "Basket Items Other": [
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     "Price": 299,
     "Quantity": 3,
     "Weight": 2.6
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   {
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     "Product Name": "Fairy Tale",
     "Price": 22,
     "Quantity": 1,
     "Weight": 0.863
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     "Product Name": "Bottled Water",
     "Price": 1.1,
     "Quantity": 32
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      "Price": 324.97,
      "Quantity": 1,
      "Weight": 48.2
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      "Price": 9.99,
      "Quantity": 5,
      "Weight": 0.02
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      "Price": 50,
      "Quantity": 4,
      "Weight": 0.2
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  "Other Items Cost": 0,
  "Shipping Cost Fresh": 4,
  "Shipping Cost Other": 0,
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      "Price": 300,
      "Quantity": 1,
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