

# Amazon Database Design

## Introduction

This report aims to outline the process and considerations for creating a NoSQL database for an online delivery system for Amazon. 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.

## 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).

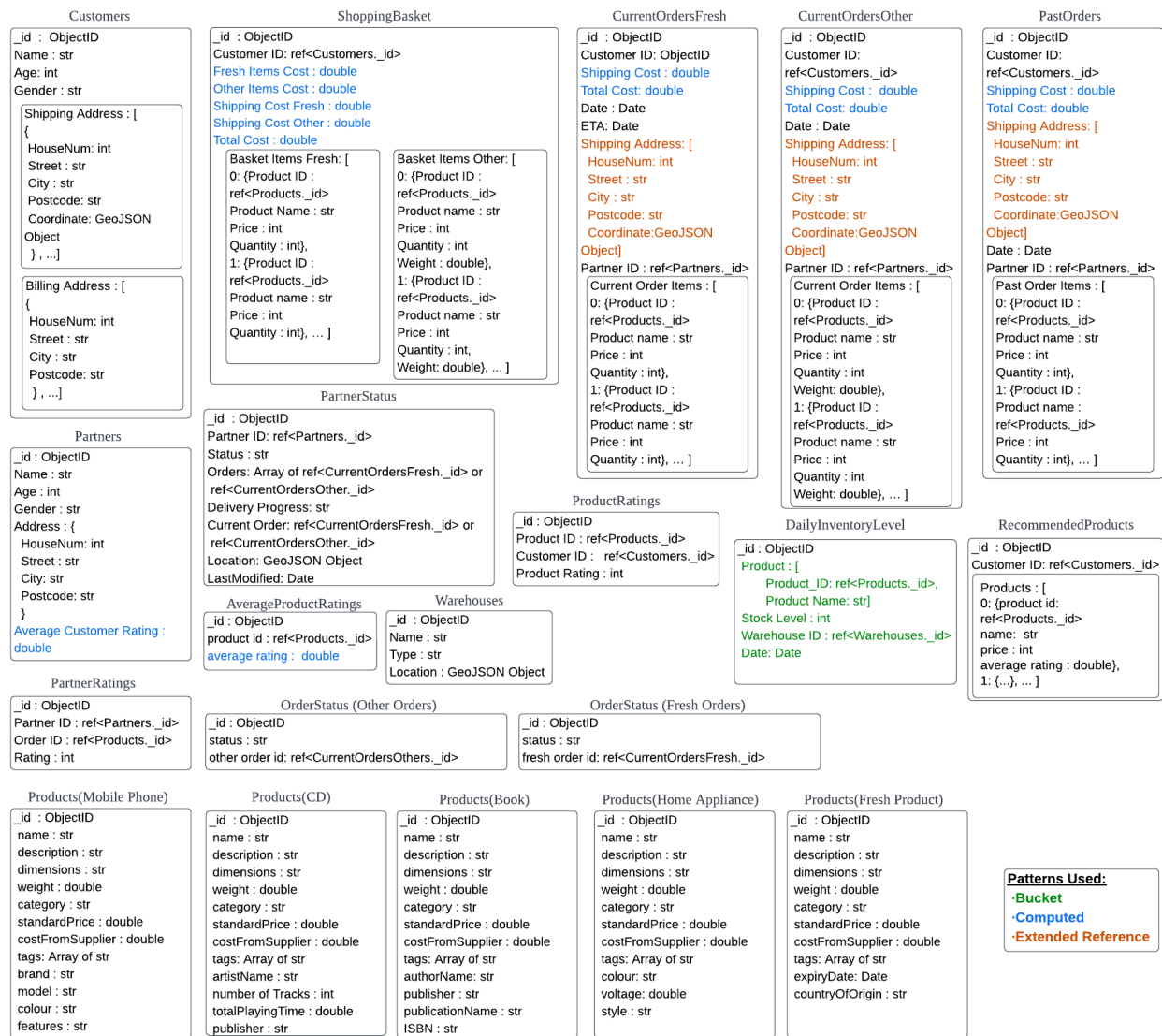
Taking advantage of this flexibility, a multiple schema design was implemented for this database. A multiple schema design allows for flexible data modelling as different data models can be used in different parts of the database. It increases data integrity by having multiple schemas it can enforce 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.

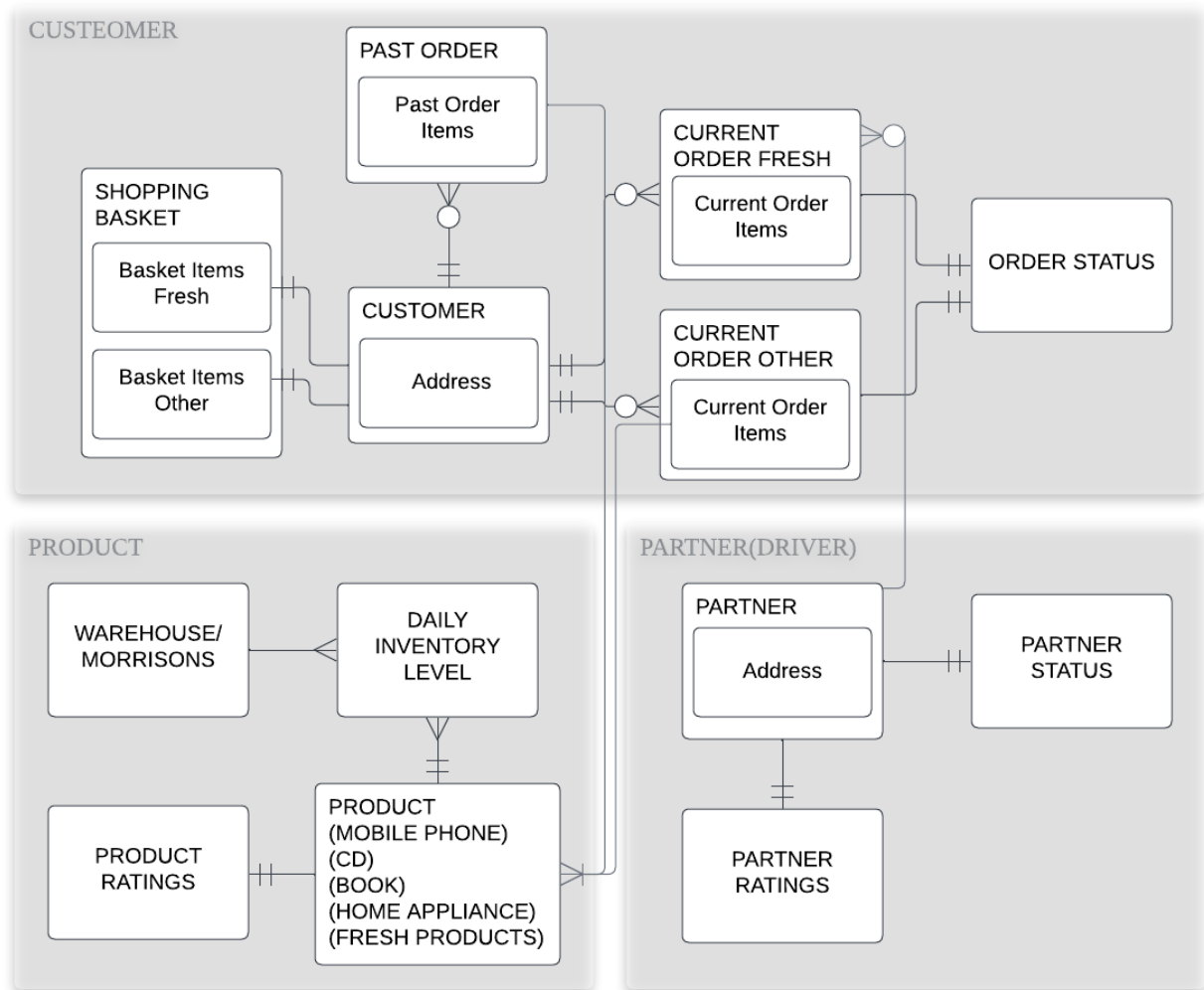


See JSON formatted Schema in the appendix.

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:

1. **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 queried.
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
<pre>Ordered product details: [{'Product ID': ObjectId('63b5aeb10540422a4a51451'), '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 ----- 63b5aeb10540422a4a51451  Bottled Water    1.1      74  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}  'Success: Item has been ordered'</pre>

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

<b>Input</b>
<b>addToBasket</b> (ObjectId("63b8707d066488245e595986"),ObjectId('63b5aebe10540422a4a51452'), 1) <b>basketToOrder</b> (ObjectId("63b8707d066488245e595986"))
<b>Output</b>
<pre> Shipping cost applied Fresh Product details : Product ID      Product Name      Price      Quantity ----- 63b5aebe10540422a4a51452  Peach              0.6        1  Delivery drivers' locations : {'type': 'Point', 'coordinates': [-2.22858, 53.467352]}  ETA : 2023-01-12 23:55:01.768295  Details of delivery drivers : {'Name': 'Thore Odinson', 'Average Customer Rating': 4.7}  'Success: Item has been ordered' </pre>

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.

<b>Input</b>
AvailableFreshProducts(ObjectId("63b8707d066488245e595983"))
<b>Output</b>
<pre> {'_id': ObjectId('63b5aebe10540422a4a51444'), 'name': 'Croissant', 'description': 'Freshly baked all butter croissant', 'standardPrice': 0.6, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a51447'), 'name': 'Muffin', 'description': 'Triple chocolate muffin', 'standardPrice': 0.8, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a51448'), 'name': 'Orange Juice', 'description': 'Hand squeezed orange juice with bits', 'standardPrice': 2.1, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a5144a'), 'name': 'Bread Loaf', 'description': 'Wholemeal bread loaf', 'standardPrice': 1.2, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a5144d'), 'name': 'Pain Au Chocolat', 'description': 'Freshly baked pain au chocolat', 'standardPrice': 0.5, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a5144e'), 'name': 'Cola', 'description': 'Super fizzy cola', 'standardPrice': 1.3, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a51451'), 'name': 'Bottled Water', 'description': 'Bottled spring water', 'standardPrice': 1.1, 'countryOfOrigin': 'United Kingdom'} {'_id': ObjectId('63b5aebe10540422a4a51452'), 'name': 'Peach', 'description': 'Flat peach', 'standardPrice': 0.6, 'countryOfOrigin': 'Spain'} </pre>

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

<b>Input</b>
<b>addToBasket</b> (ObjectId('63b8707d066488245e595983'),ObjectId('63b5aebe10540422a4a51444'), 1)  <b>basketToOrder</b> (ObjectId('63b8707d066488245e595983'))
<b>Output</b>

```

Ordered product details:
[{'Product ID': ObjectId('63b5aebe10540422a4a51444'), 'Product Name': 'Croissant', 'Price': 0.6, 'Quantity': 6}]
Partner Assigned: Christy Stephenson
Partner current location: [-2.249629, 53.475607]
ETA: 2023-01-12 23:24:13.031292
Fresh Product details :
Product ID          Product Name      Price      Quantity
-----
63b5aebe10540422a4a51444  Croissant        0.6        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         2         0.2
63b5aebe10540422a4a5145a  Google Pixel 7 Pro    700        4         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.

<u>Input</u>
<code>addToBasket(ObjectId("63b8707d066488245e595992"),ObjectId('63b5aebe10540422a4a51455'), 1)</code>
<code>basketToOrder(ObjectId("63b8707d066488245e595992"))</code>
<u>Output</u>
<pre> Free Shipping Sorry, we couldn't proceed your order. Samsung Galaxy S9 is out of stock </pre>

**Query 6:** Getting the top 5 most recommended items

Input: 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('63b5aebe10540422a4a51456')}, 'Count': 3}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51479')}, 'Count': 3}
```

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

Input: 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.

```
[39] collection = db.PastOrders
cursor = collection.aggregate([
    {"$group": {
        "_id": {"Partner ID": "$PartnerID"},
        "Number of Orders": {"$sum": 1},
        "Total Value": {"$sum": "$Total Cost"}
    }}
])
for doc in cursor:
    print(doc)
```

#### Output

```
{'_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': 355.15000000000003}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a8')}, 'Number of Orders': 9, 'Total Value': 505.0}
{'_id': {'Partner ID': ObjectId('63b88d85066488245e5959a6')}, 'Number of Orders': 3, '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

Input 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.

```
collection = db.PastOrders
cursor = collection.aggregate([
    {"$unwind": "$Past Order Items"},
    {"$group": {
        "_id": {"Product ID": "$Past Order Items.Product ID"},
        "Count": {"$sum": 1}
    }},
    {"$sort": {"Count": -1}},
    {"$limit": 3}
])
for doc in cursor:
    print(doc)
```

#### 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

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

```
collection = db.DailyInventoryLevel
cursor = collection.aggregate([
    {"$group": {
        "_id": {"Product ID": "$Product.Product_ID"},
        "Stock": {"$sum": "$Stock Level"}
    }}
])
for doc in cursor:
    print(doc)
```

### Output

```
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5145b')}, 'Stock': 7999}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51462')}, 'Stock': 7997}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51455')}, 'Stock': 0}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51465')}, 'Stock': 10000}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5144c')}, 'Stock': 0}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51471')}, 'Stock': 397}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a5144a')"}, 'Stock': 31840}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51472')}, 'Stock': 797}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51473')}, 'Stock': 0}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51466')}, 'Stock': 29997}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51448')}, 'Stock': 7000}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a5144e')"}, 'Stock': 37958}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5146a')}, 'Stock': 2000}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5145a')}, 'Stock': 4993}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51470')}, 'Stock': 199}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51469')}, 'Stock': 997}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5146c')}, 'Stock': 1998}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51446')"}, 'Stock': 36400}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a5144b')"}, 'Stock': 31201}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51445')"}, 'Stock': 24419}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51446')}, 'Stock': 19933}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5145d')}, 'Stock': 0}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51467')}, 'Stock': 9997}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51468')}, 'Stock': 0}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51454')}, 'Stock': 800}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51474')}, 'Stock': 1397}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51457')}, 'Stock': 97}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5146e')}, 'Stock': 4996}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51459')}, 'Stock': 1993}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51464')}, 'Stock': 5000}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51449')"}, 'Stock': 32937}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5145f')}, 'Stock': 394}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51463')}, 'Stock': 1000}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51478')}, 'Stock': 5999}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51448')"}, 'Stock': 37942}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51452')"}, 'Stock': 23594}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51460')}, 'Stock': 997}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51449')}, 'Stock': 4935}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51451')}, 'Stock': 6901}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a51477')}, 'Stock': 4994}
{'_id': {'Product ID': ObjectId('63b5aebe10540422a4a5144d')}, 'Stock': 39948}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a5144c')"}, 'Stock': 42894}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51447')"}, 'Stock': 42102}
{'_id': {'Product ID': "ObjectId('63b5aebe10540422a4a51444')"}, 'Stock': 28275}
```

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

Input
<pre>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)</pre>
Output
<pre>{'_id': 'Female', 'Average Age': 24.857142857142858} {'_id': 'Male', 'Average Age': 26.166666666666668} {'_id': 'Other', 'Average Age': 54.0}</pre>

#### Query 11: Customer age count above a certain age

Input
<pre>[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)</pre>
Output
<pre>{'Number of customers above Age 30': 5}</pre>

### Query 12: Top 5 Partners by Rating

Input
<pre>[25] Partner_Avg_Rating_pipeline = [     {"\$group": {"_id": "\$Partner ID", "Average Rating": {"\$avg": "\$Rating"}}},     {"\$sort": SON([("Average Rating", -1), ("_id", -1),])},     {"\$limit": 5 }] results=list(db.PartnerRatings.aggregate(Partner_Avg_Rating_pipeline)) for i in results:     print(i)</pre>
Output
<pre>{'_id': ObjectId('63b88d85066488245e5959ab'), 'Average Rating': 3.8} {'_id': ObjectId('63b88d85066488245e5959a6'), 'Average Rating': 3.8} {'_id': ObjectId('63b88d85066488245e5959a7'), 'Average Rating': 3.6} {'_id': ObjectId('63b88d85066488245e5959a8'), 'Average Rating': 3.5} {'_id': ObjectId('63b88d85066488245e5959a5'), 'Average Rating': 3.4}</pre>

### Query 13: Top 10 Products by Revenue

Input

Top\_10\_products\_by\_revenue(PastOrder)

Output

Top 10 Products by Total Revenue

Product Name

Google Pixel 5

Samsung AU7100 50 Inch 4K HDR Smart TV

Samsung Series 4 9kg 1400 Spin Freestanding Washing Machine

Google Pixel 7 Pro

Miele 14 Place Settings Fully Integrated Dishwasher

Apple iPhone XS

Bosch Series 6 9kg Wash 6kg Dry 1400rpm Freestanding Washer Dryer

Samsung Galaxy S9

Samsung Galaxy S22 Ultra

Apple iPhone 13

0

2000

4000

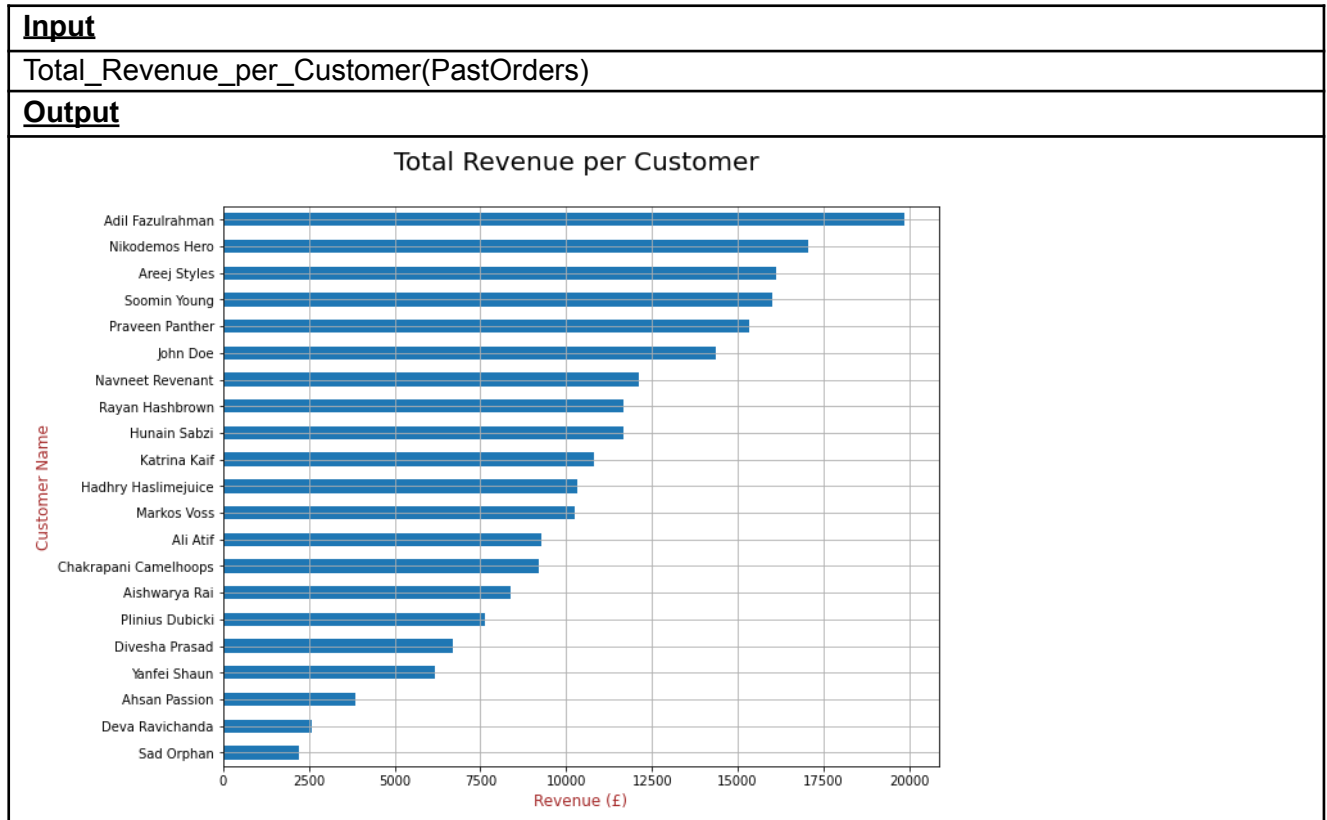
6000

8000

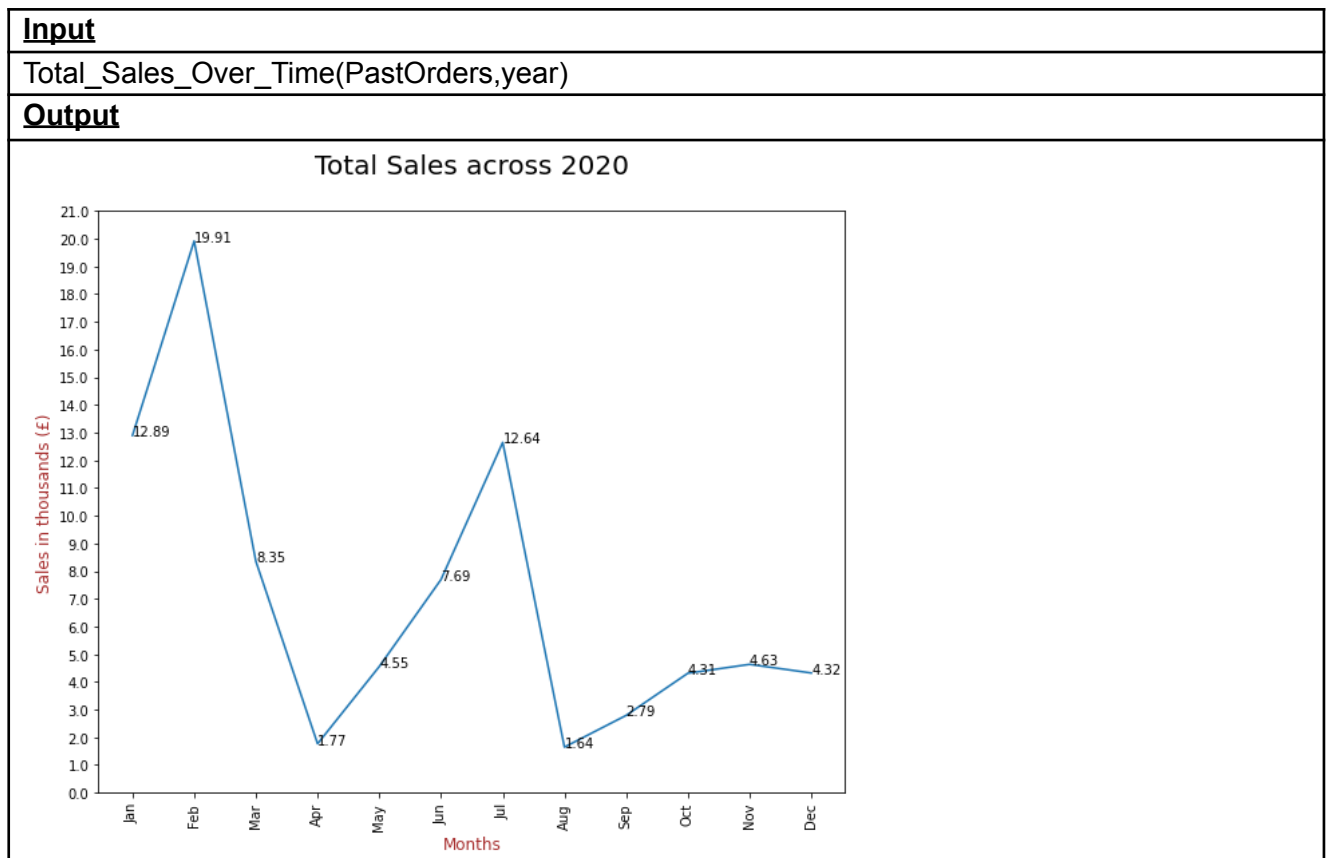
10000

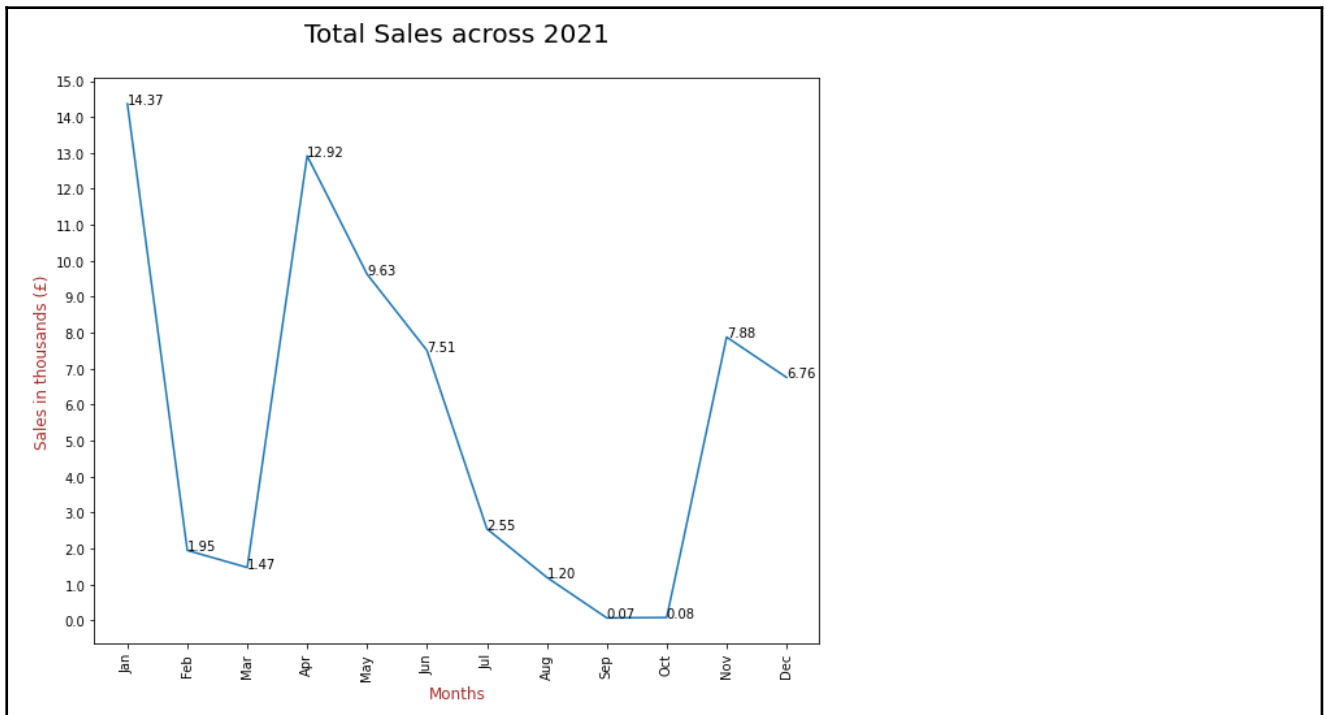
Revenue (£)

#### Query 14: Total Revenue by Customer

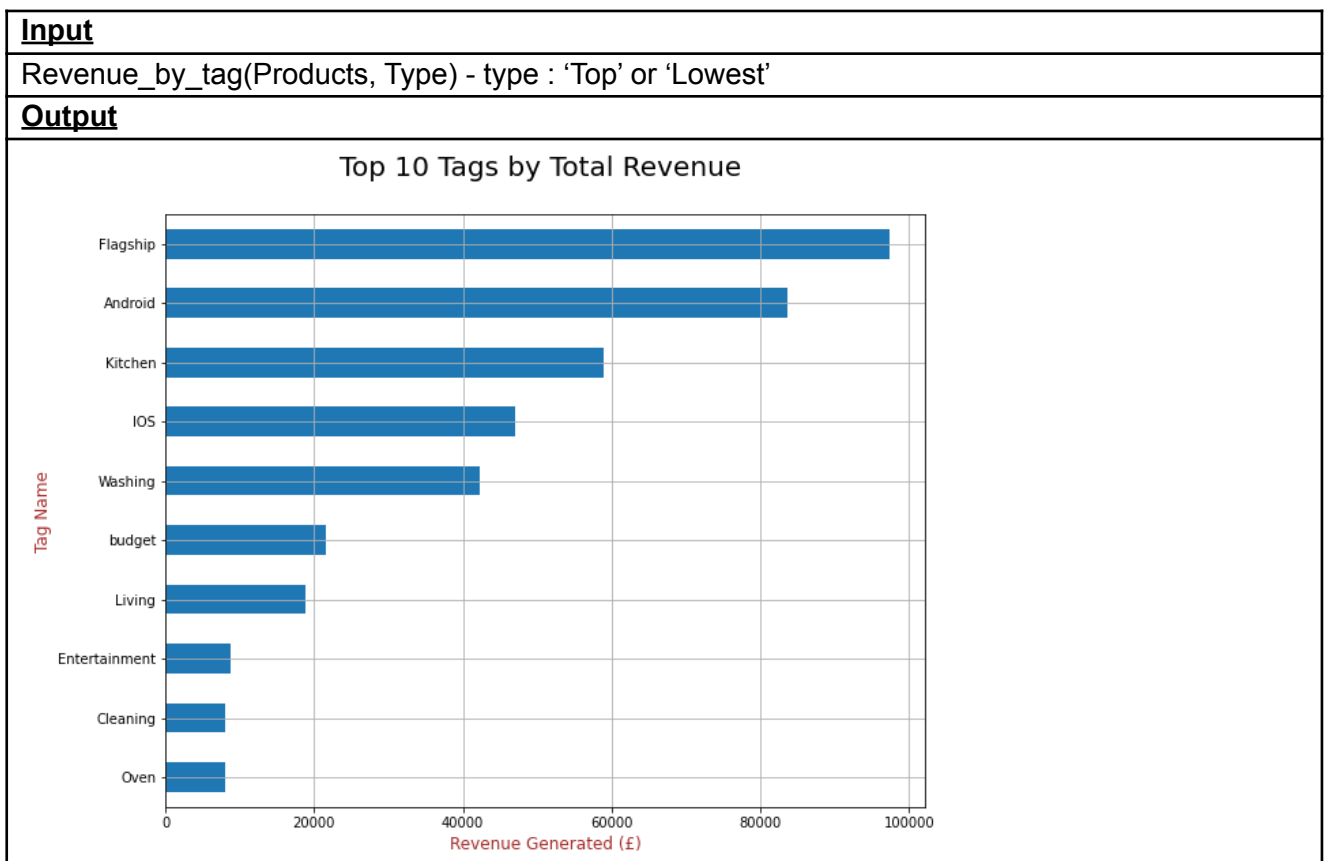


#### Query 15: Total Sales over time

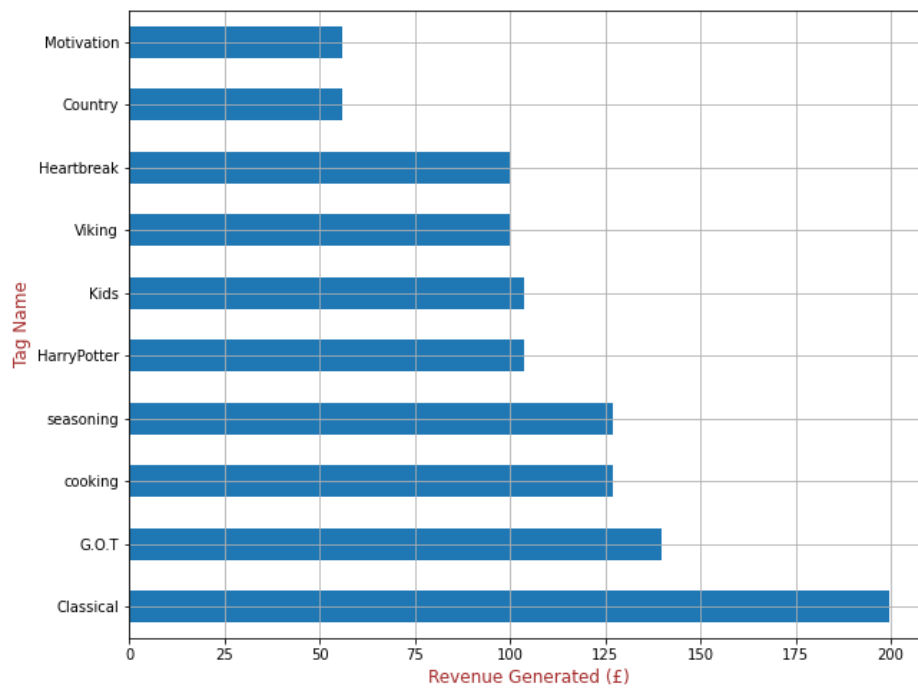




**Query 16: Total Revenue by tags**



Lowest 10 Tags by Total Revenue





## 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 : ref<products._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" : "sM7lCSW55GhFb541H9GBBHfrasK3J5B6",
5.         "location": CustomerPostcode
6.     }
7.
8.     response =
requests.get("http://www.mapquestapi.com/geocoding/v1/address",params =
parameters)
9.     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

```
2. def AvailableFreshProducts(customerID):
3.     allMorrison = db.Warehouses.find({"Type":"Morrison"}).distinct("_id")
4.
5.     customerCoord = db.Customers.find_one({"_id":customerID})['Shipping
Address']['Coordinates']['coordinates']
6.
```



```

7.     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

```

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

```

```

6.         morrison = warehouses.find_one(
7.             {
8.                 "Location": {
9.                     "$near": {
10.                         "$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.
22.     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}})

```

```

else:

    if (oldShippingCost > 0):

        shoppingBasket.update_one({"Customer ID": customerID}, {

            "$inc": {"Total Cost": -4}})

        shoppingBasket.update_one({"Customer ID": customerID}, {

            "$inc": {"Shipping Cost Fresh": -4}})

        print("Free Shipping!")

```

## 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")

```

```

elif index > 250:

    shippingCost += 20

    print("$20 Shipping cost applied")

    shoppingBasket.update_one({"Customer ID": customerID}, {"$inc": {"Total
Cost": round(shippingCost, 2),

"Shipping Cost Other": shippingCost}})

```

## 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": [],

```

```

                                "Basket Items Other": [{"Product ID":
productID, "Product Name": productName, "Price": price,
                                "Quantity":
quantity, "Weight": weight}], "Fresh Items Cost": 0,
                                "Other Items Cost": round(cost, 2),
"Shipping Cost Fresh": 0,
                                "Shipping Cost Other": 0, "Total
Cost": round(cost, 2)})

shipping_cost_other(customerID)

```

## 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:

```

```

        return None

# AssignOrder to assign orders to partners
def AssignOrder(partnerID, orderID):

    partnerStatus.update_one({"Partner ID": partnerID}, {
        "$push": {"Orders": orderID}})

    partnerStatus.update_one({"Partner ID": partnerID}, [
        {"$set": {"Delivery Progress": "On the way",
"Current Order": {"$arrayElemAt": ["$Orders", 0]}}}]]

    PartnerInv = len(partnerStatus.find_one(
        {"Partner ID": partnerID})["Orders"])

    eta = datetime.now() + timedelta(minutes=30 * PartnerInv)

    return eta

```

## 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":
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))
```

```

data = list(PastOrders.find({}))

df3 = pd.json_normalize(data, record_path=['Past Order Items'], meta=[
    'Total Cost', 'Date', ])

a=df3.groupby(by=['Product
Name']))['Price'].sum().sort_values(ascending=False)

g=a[:10].plot(kind='barh', grid=True)

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

g.set_ylabel("Product Name", fontdict={'fontsize': 12, 'fontweight' : 5,
'color' : 'Brown'})

plt.title('Top 10 Products by Total Revenue \n', fontdict={'fontsize': 20,
'fontweight' : 5, 'color' : 'Black'})

plt.savefig('Top_10_Products_by_Revenue.png')

return plt.show()

```

## 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_topRated_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):

        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

```
[{
  "_id": {
    "$oid": "63b8707d066488245e595983"
  },
  "Name": "John Doe",
  "Age": 25,
  "Gender": "Male",
  "Shipping Address": {
    "HouseNum": 23,
    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AA",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.23404,
        53.48305
      ]
    }
  },
  "Billing Address": {
    "HouseNum": 23,
    "Street": "Maplewood Gardens",
    "City": "Lancaster",
    "Postcode": "LA23PE"
  }
}, {
  "_id": {
    "$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",
            "coordinates": [
                -2.16605,
                53.46961
            ]
        }
    },
    "Billing Address": {
        "HouseNum": 117,
        "Street": "Kappaloom",
        "City": "Kamloops",
        "Postcode": "K12 123"
    }
}, {
    "_id": {
        "$oid": "63b8707d066488245e59598d"
    },
    "Name": "Navneet Revenant",
    "Age": 23,
    "Gender": "Male",
    "Shipping Address": {
        "HouseNum": 123,
        "Street": "Zaun",
        "City": "Manchester",
        "Postcode": "M124UU",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
                -2.20688,
                53.46332
            ]
        }
    },
    "Billing Address": {
        "HouseNum": 123,
        "Street": "Zaun",
        "City": "Piltover",
        "Postcode": "L12233"
    }
}, {
    "_id": {
        "$oid": "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": {
      "$oid": "63b8707d066488245e59598e"
    },

```

```

},
  "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
      ]
    }
  },
  "Billing Address": {
    "HouseNum": 16,
    "Street": "Sundrive",
    "City": "Liverpool",
    "Postcode": "LI1D34"
  }
}, {
  "_id": {
    "$oid": "63b8707d066488245e59598f"
  },
  "Name": "Aishwarya Rai",
  "Age": 24,
  "Gender": "Female",
  "Shipping Address": {
    "HouseNum": 201,
    "Street": "Luneside",
    "City": "Manchester",
    "Postcode": "M124XZ",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.21903,
        53.46729
      ]
    }
  },
  "Billing Address": {
    "HouseNum": 201,
    "Street": "Luneside",
    "City": "Lancaster",
    "Postcode": "LA15QT"
  }
}, {
  "_id": {
    "$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"
    }
}, {
    "_id": {
        "$oid": "63b8707d066488245e595995"
    },
    "Name": "Rayan Hashbrown",
    "Age": 22,
    "Gender": "Male",
    "Shipping Address": {
        "HouseNum": 16,
        "Street": "Manley Road",
        "City": "Manchester",
        "Postcode": "M145DS",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
                -2.21079,
                53.45502
            ]
        }
    }
},
    "Billing Address": {
        "HouseNum": 16,
        "Street": "Manley Road",
        "City": "Manchester",
        "Postcode": "M14 5DS"
    }
}, {
    "_id": {
        "$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
    ]
}
},
"Billing Address": {
    "HouseNum": 12,
    "Street": "Pdrive",
    "City": "Chicago",
    "Postcode": "A23432"
}
}, {
    "_id": {
        "$oid": "63b8707d066488245e595988"
    },
    "Name": "Areej Styles",
    "Age": 23,
    "Gender": "Female",
    "Shipping Address": {
        "HouseNum": 24,
        "Street": "Maplewood Gardens",
        "City": "Manchester",
        "Postcode": "M11AS",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
                -2.23404,
                53.48305
            ]
        }
    }
},
"Billing Address": {
    "HouseNum": 24,
    "Street": "Maplewood Gardens",
    "City": "Edinburgh",
    "Postcode": "E32341"
}
}, {
    "_id": {
        "$oid": "63b8707d066488245e595989"
    },
    "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": {
        "$oid": "63b8707d066488245e595992"
    },
    "Name": "Hadhry Haslimejuice",
    "Age": 14,
    "Gender": "Male",
    "Shipping Address": {
        "HouseNum": 12,
        "Street": "Rusholme",
        "City": "Manchester",
        "Postcode": "M11JG",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
                -2.23633,
                53.48233
            ]
        }
    },
    "Billing Address": {
        "HouseNum": 12,
        "Street": "Rusholme",
        "City": "Manchester",
        "Postcode": "M133DT"
    }
}, {
    "_id": {
        "$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
            ]
        }
    },
    "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

```
[{
  "_id": {
    "$oid": "63b5aebe10540422a4a51451"
  },
  "name": "Bottled Water",
  "description": "Bottled spring water",
  "dimensions": "10x5x5cm",
  "weight": 4.91,
  "category": "drinks",
  "standardPrice": 1.1,
  "costFromSupplier": 0.63,
  "expiryDate": {
    "$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"
    ]
}, {
    "_id": {
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    },
    "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"
  ]
}, {
  "_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"
    ]
  }, {
    "_id": {
      "$oid": "63b5aebe10540422a4a51462"
    },
    "name": "Michael Ball/Alfie Boe: Together in Vegas",
    "description": "Michael Ball/Alfie Boe: Together in Vegas",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 7.99,
    "costFromSupplier": 3.04,
    "artistName": "Michael Ball & Alfie Boe",
    "numberOfTracks": 13,
    "totalPlayingTime": 49.86,
    "publisher": "Decca Records",
    "tags": [
      "Country",
      "Motivation",
      "Soul"
    ]
  }, {
    "_id": {
      "$oid": "63b5aebe10540422a4a51466"
    },
    "name": "The Astronaut: Version 01 (hmv Exclusive) Includes Postcard",
    "description": "The Astronaut: Version 01 (hmv Exclusive) Includes
Postcard",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 27.99,
    "costFromSupplier": 10.54,
    "artistName": "Jin",
    "numberOfTracks": 1,
    "totalPlayingTime": 3.61,
    "publisher": "Bighit Music",
    "tags": [
      "Kpop",
      "Pop",
      "BTS",
      "Trending"
    ]
  }, {
    "_id": {

```

```

    "$oid": "63b5aebe10540422a4a5146e"
  },
  "name": "Harry Potter and the Philosopher's Stone",
  "description": "Harry Potter and the Philosopher's Stone",
  "dimensions": "198 x 129 x 32 mm",
  "weight": 0.29,
  "category": "book",
  "standardPrice": 7.99,
  "costFromSupplier": 5.24,
  "authorName": "J. K. Rowling",
  "publicationName": "Harry Potter and the Philosopher's Stone",
  "ISBN": "9781408855652",
  "publisher": "Bloomsbury Publishing PLC",
  "tags": [
    "Magic",
    "HarryPotter",
    "Fantasy",
    "Kids"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51470"
  },
  "name": "Blood of Elves - The Witcher 1",
  "description": "Blood of Elves - The Witcher 1",
  "dimensions": "196 x 128 x 24 mm",
  "weight": 0.28,
  "category": "book",
  "standardPrice": 9.99,
  "costFromSupplier": 6.65,
  "authorName": "Andrzej Sapkowski",
  "publicationName": "Blood of Elves - The Witcher 1",
  "ISBN": "9781473231078",
  "publisher": "Orion Publishing Co",
  "tags": [
    "Magic",
    "Fantasy"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51479"
  },
  "name": "KitchenAid Classic 4.3L Stand Mixer",
  "description": "KitchenAid Classic 4.3L Stand Mixer",
  "dimensions": "230 x 360 x 360 mm",
  "weight": 10.5,
  "category": "home appliance",
  "standardPrice": 319,
  "costFromSupplier": 179.75,
  "colour": "Black",
  "voltage": 230,
  "style": "small appliance",
  "tags": [
    "Blender",
    "Kitchen"
  ]
}, {
  "_id": {

```

```

    "$oid": "63b5aebe10540422a4a51445"
  },
  "name": "Energy Drink",
  "description": "High electrolyte energy drink",
  "dimensions": "20x5x5cm",
  "weight": 2.01,
  "category": "drinks",
  "standardPrice": 1.35,
  "costFromSupplier": 0.72,
  "expiryDate": {
    "$date": {
      "$numberLong": "1706832000000"
    }
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "energy",
    "caffeine"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51449"
  },
  "name": "Lemon",
  "description": "Dorshapo lemon",
  "dimensions": "7x3x3cm",
  "weight": 3.59,
  "category": "fruits",
  "standardPrice": 0.4,
  "costFromSupplier": 0.22,
  "expiryDate": {
    "$date": {
      "$numberLong": "1684195200000"
    }
  },
  "countryOfOrigin": "Spain",
  "tags": [
    "seasoning",
    "cooking"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5144c"
  },
  "name": "Orange",
  "description": "Blood orange",
  "dimensions": "5x5x5cm",
  "weight": 1.54,
  "category": "fruits",
  "standardPrice": 0.5,
  "costFromSupplier": 0.27,
  "expiryDate": {
    "$date": {
      "$numberLong": "1677628800000"
    }
  },
  "countryOfOrigin": "Spain",
  "tags": [

```

```

    "fruit",
    "healthy"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5144d"
  },
  "name": "Pain Au Chocolat",
  "description": "Freshly baked pain au chocolat",
  "dimensions": "7x5x3cm",
  "weight": 0.71,
  "category": "bakery",
  "standardPrice": 0.5,
  "costFromSupplier": 0.25,
  "expiryDate": {
    "$date": {
      "$numberLong": "1672099200000"
    }
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "snack",
    "junk"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51450"
  },
  "name": "Brownie",
  "description": "Fudge brownie with choc chips",
  "dimensions": "5x5x2cm",
  "weight": 2.14,
  "category": "bakery",
  "standardPrice": 0.8,
  "costFromSupplier": 0.29,
  "expiryDate": {
    "$date": {
      "$numberLong": "1672617600000"
    }
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "baked",
    "pastry"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51455"
  },
  "name": "Samsung Galaxy S9",
  "description": "Samsung Galaxy S9",
  "dimensions": "15x5x2cm",
  "weight": 0.2,
  "category": "mobile phone",
  "standardPrice": 600,
  "costFromSupplier": 303.26,
  "brand": "Samsung",
  "model": "Galaxy S9",

```

```

"colour": "Gold",
"features": [
  "Iris scanner",
  "Fingerprint (rear-mounted)",
  "Accelerometer",
  "Gyro",
  "Proximity",
  "Compass",
  "Barometer",
  "Heart rate",
  "Natural language commands and dictation"
],
"tags": [
  "Android",
  "Flagship"
]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51456"
  },
  "name": "Samsung Galaxy S22 Ultra",
  "description": "Samsung Galaxy S22 Ultra",
  "dimensions": "15x5x2cm",
  "weight": 0.2,
  "category": "mobile phone",
  "standardPrice": 1400,
  "costFromSupplier": 817.94,
  "brand": "Samsung",
  "model": "Galaxy S22 Ultra",
  "colour": "Rose Gold",
  "features": [
    "Fingerprint (under display, ultrasonic)",
    "Accelerometer",
    "Gyro",
    "Proximity",
    "Compass",
    "Barometer",
    "Natural language commands and dictation",
    "Ultra Wideband (UWB) support"
  ],
  "tags": [
    "Android",
    "Flagship"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51457"
  },
  "name": "Apple iPhone 13",
  "description": "Apple iPhone 13",
  "dimensions": "15x5x2cm",
  "weight": 0.2,
  "category": "mobile phone",
  "standardPrice": 1200,
  "costFromSupplier": 433.41,
  "brand": "Apple",
  "model": "iPhone 13",
  "colour": "White",

```

```

    "features": [
        "Face ID",
        "Accelerometer",
        "Gyro",
        "Proximity",
        "Compass",
        "Barometer",
        "Ultra Wideband (UWB) support"
    ],
    "tags": [
        "IOS",
        "Flagship"
    ]
}, {
    "_id": {
        "$oid": "63b5aebel10540422a4a5145c"
    },
    "name": "Samsung Galaxy Note 3",
    "description": "Samsung Galaxy Note 3",
    "dimensions": "15x5x2cm",
    "weight": 0.2,
    "category": "mobile phone",
    "standardPrice": 450,
    "costFromSupplier": 260.49,
    "brand": "Samsung",
    "model": "Galaxy Note 3",
    "colour": "White",
    "features": [
        "Accelerometer",
        "Gyro",
        "Proximity",
        "Compass",
        "Barometer",
        "Temperature",
        "Humidity",
        "Gesture",
        "Natural language commands and dictation",
        "Air gestures",
        "Dropbox (50 GB cloud storage)"
    ],
    "tags": [
        "Android",
        "Flagship",
        "Big"
    ]
}, {
    "_id": {
        "$oid": "63b5aebel10540422a4a5145e"
    },
    "name": "NOW That's What I Call a Massive 80s Party",
    "description": "NOW That's What I Call a Massive 80s Party",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 7.99,
    "costFromSupplier": 4.79,
    "artistName": "Various Artists",
    "numberOfTracks": 86,

```



```

    "totalPlayingTime": 297.18,
    "publisher": "NOW",
    "tags": [
        "Party",
        "Mashup",
        "Oldschool",
        "Remix"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a51461"
    },
    "name": "Only the Strong Survive",
    "description": "Only the Strong Survive",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 11.99,
    "costFromSupplier": 7.11,
    "artistName": "Bruce Springsteen",
    "numberOfTracks": 15,
    "totalPlayingTime": 49.83,
    "publisher": "Columbia",
    "tags": [
        "Indie",
        "Oldschool"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a51465"
    },
    "name": "Midnights: Moonstone Blue Edition",
    "description": "Midnights: Moonstone Blue Edition",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 9.99,
    "costFromSupplier": 4.19,
    "artistName": "Taylor Swift",
    "numberOfTracks": 13,
    "totalPlayingTime": 45.77,
    "publisher": "EMI",
    "tags": [
        "Pop",
        "Romance",
        "Heartbreak",
        "Trending"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a51467"
    },
    "name": "Babel: An Arcane History",
    "description": "Babel: An Arcane History",
    "dimensions": "240 x 159 x 44 mm",
    "weight": 0.85,
    "category": "book",
    "standardPrice": 16.99,

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```

"costFromSupplier": 7.34,
"authorName": "R.F. Kuang",
"publicationName": "Babel: An Arcane History",
"ISBN": "9780008501815",
"publisher": "HarperCollins Publishers",
"tags": [
  "Historical",
  "Fiction"
]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51468"
  },
  "name": "Fairy Tale",
  "description": "Fairy Tale",
  "dimensions": "236 x 160 x 52 mm",
  "weight": 0.863,
  "category": "book",
  "standardPrice": 22,
  "costFromSupplier": 13.23,
  "authorName": "Stephen King",
  "publicationName": "Fairy Tale",
  "ISBN": "9781399705417",
  "publisher": "Hodder & Stoughton",
  "tags": [
    "Folklore",
    "Best Seller"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5146b"
  },
  "name": "The Atlas Paradox - Atlas series",
  "description": "The Atlas Paradox - Atlas series",
  "dimensions": "242 x 163 x 42 mm",
  "weight": 0.664,
  "category": "book",
  "standardPrice": 18.99,
  "costFromSupplier": 10.83,
  "authorName": "Olivie Blake",
  "publicationName": "The Atlas Paradox - Atlas series",
  "ISBN": "9781529095302",
  "publisher": "Pan Macmillan",
  "tags": [
    "Magic",
    "Fantasy",
    "Fiction",
    "Atlas Series",
    "Young Adult"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5146c"
  },
  "name": "The Handmaid's Tale",
  "description": "The Handmaid's Tale",
  "dimensions": "198 x 129 x 19 mm",
  "weight": 0.223,

```

```

    "category": "book",
    "standardPrice": 9.99,
    "costFromSupplier": 4.08,
    "authorName": "Margaret Atwood",
    "publicationName": "The Handmaid's Tale",
    "ISBN": "9780099740919",
    "publisher": "Vintage Publishing",
    "tags": [
        "SciFi",
        "Utopian",
        "Dystopian",
        "Fiction",
        "Young Adult"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5146d"
    },
    "name": "Fire and Blood - A Song of Ice and Fire",
    "description": "Fire and Blood - A Song of Ice and Fire",
    "dimensions": "198 x 129 x 40 mm",
    "weight": 0.52,
    "category": "book",
    "standardPrice": 9.99,
    "costFromSupplier": 6.36,
    "authorName": "George R.R. Martin",
    "publicationName": "Fire and Blood - A Song of Ice and Fire",
    "ISBN": "9780008402785",
    "publisher": "HarperCollins Publishers",
    "tags": [
        "SciFi",
        "Magic",
        "G.O.T",
        "Young Adult"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5146f"
    },
    "name": "The Fall of Numenor: And Other Tales from the Second Age of Middle-Earth",
    "description": "The Fall of Numenor: And Other Tales from the Second Age of Middle-Earth",
    "dimensions": "228 x 149 x 33 mm",
    "weight": 0.85,
    "category": "book",
    "standardPrice": 25,
    "costFromSupplier": 9.74,
    "authorName": "J. R. R. Tolkien",
    "publicationName": "The Fall of Numenor: And Other Tales from the Second Age of Middle-Earth",
    "ISBN": "9780008537838",
    "publisher": "HarperCollins Publishers",
    "tags": [
        "Fantasy",
        "Historical",
        "Viking"
    ]
}

```

```

}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51473"
  },
  "name": "Samsung Series 4 9kg 1400 Spin Freestanding Washing Machine",
  "description": "Samsung Series 4 9kg 1400 Spin Freestanding Washing Machine",
  "dimensions": "89 x 67 x 66 mm",
  "weight": 67,
  "category": "home appliance",
  "standardPrice": 456.97,
  "costFromSupplier": 187.23,
  "colour": "White",
  "voltage": 230,
  "style": "major appliance",
  "tags": [
    "Washing",
    "Kitchen"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51475"
  },
  "name": "Miele 14 Place Settings Fully Integrated Dishwasher",
  "description": "Miele 14 Place Settings Fully Integrated Dishwasher",
  "dimensions": "805 x 598 x 570 mm",
  "weight": 93.3,
  "category": "home appliance",
  "standardPrice": 999.97,
  "costFromSupplier": 517.72,
  "colour": "Light grey",
  "voltage": 240,
  "style": "major appliance",
  "tags": [
    "Washing",
    "Kitchen"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51477"
  },
  "name": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier & Air Purifier with 3-in-1 Advanced Filter",
  "description": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier & Air Purifier with 3-in-1 Advanced Filter",
  "dimensions": "350 x 206 x 400 mm",
  "weight": 12,
  "category": "home appliance",
  "standardPrice": 179.99,
  "costFromSupplier": 87.18,
  "colour": "White",
  "voltage": 230,
  "style": "major appliance",
  "tags": [
    "Hygiene",
    "QOL"
  ]
}, {

```

```
"_id": {
  "$oid": "63b5aebe10540422a4a51448"
},
"name": "Orange Juice",
"description": "Hand squeezed orange juice with bits",
"dimensions": "15x8x8cm",
"weight": 1.95,
"category": "drinks",
"standardPrice": 2.1,
"costFromSupplier": 0.7,
"expiryDate": {
  "$date": {
    "$numberLong": "1675728000000"
  }
},
"countryOfOrigin": "United Kingdom",
"tags": [
  "juice",
  "breakfast",
  "drink"
]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5144b"
  },
  "name": "Lemonade",
  "description": "Lemonade with no added sweeteners or preservatives",
  "dimensions": "15x8x8cm",
  "weight": 4.77,
  "category": "drinks",
  "standardPrice": 2.5,
  "costFromSupplier": 1.02,
  "expiryDate": {
    "$date": {
      "$numberLong": "1704067200000"
    }
  },
  "countryOfOrigin": "United Kingdom",
  "tags": [
    "juice",
    "breakfast",
    "drink"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a5144f"
  },
  "name": "Passionfruit",
  "description": "Sweet granadilla passionfruit",
  "dimensions": "7x3x3cm",
  "weight": 1.74,
  "category": "fruits",
  "standardPrice": 0.7,
  "costFromSupplier": 0.34,
  "expiryDate": {
    "$date": {
      "$numberLong": "1680825600000"
    }
  }
}
```

```

    },
    "countryOfOrigin": "Spain",
    "tags": [
        "fruit",
        "healthy"
    ]
}, {
    "_id": {
        "$oid": "63b5aebel0540422a4a51453"
    },
    "name": "Google Pixel 5",
    "description": "Google Pixel 5",
    "dimensions": "15x5x2cm",
    "weight": 0.2,
    "category": "mobile phone",
    "standardPrice": 400,
    "costFromSupplier": 156.47,
    "brand": "Google",
    "model": "Pixel 5",
    "colour": "Black",
    "features": [
        "Fingerprint (rear-mounted)",
        "Accelerometer",
        "Gyro",
        "Proximity",
        "Compass",
        "Barometer"
    ],
    "tags": [
        "Android"
    ]
}, {
    "_id": {
        "$oid": "63b5aebel0540422a4a5145a"
    },
    "name": "Google Pixel 7 Pro",
    "description": "Google Pixel 7 Pro",
    "dimensions": "15x5x2cm",
    "weight": 0.2,
    "category": "mobile phone",
    "standardPrice": 700,
    "costFromSupplier": 451.08,
    "brand": "Google",
    "model": "Pixel 7 Pro",
    "colour": "Grey",
    "features": [
        "Fingerprint (under display, optical)",
        "Accelerometer",
        "Gyro",
        "Proximity",
        "Compass",
        "Barometer",
        "Ultra Wideband (UWB) support"
    ],
    "tags": [
        "Android",
        "Flagship"
    ]
}

```

```

}, {
  "_id": {
    "$oid": "63b5aebel10540422a4a5145f"
  },
  "name": "NOW Yearbook 1980-1984: The Final Chapter",
  "description": "NOW Yearbook 1980-1984: The Final Chapter",
  "dimensions": "142 x 125 x 10 mm",
  "weight": 0.02,
  "category": "cd",
  "standardPrice": 9.99,
  "costFromSupplier": 4.54,
  "artistName": "Various Artists",
  "numberOfTracks": 81,
  "totalPlayingTime": 302.56,
  "publisher": "NOW",
  "tags": [
    "Party",
    "Mashup",
    "Oldschool",
    "Remix"
  ]
}, {
  "_id": {
    "$oid": "63b5aebel10540422a4a51464"
  },
  "name": "Harry's House",
  "description": "Harry's House",
  "dimensions": "142 x 125 x 10 mm",
  "weight": 0.02,
  "category": "cd",
  "standardPrice": 11.99,
  "costFromSupplier": 5.32,
  "artistName": "Harry Styles",
  "numberOfTracks": 13,
  "totalPlayingTime": 42.19,
  "publisher": "Columbia",
  "tags": [
    "Pop",
    "Soul",
    "Vintage",
    "Trending"
  ]
}, {
  "_id": {
    "$oid": "63b5aebel10540422a4a51469"
  },
  "name": "Stone Blind",
  "description": "Stone Blind",
  "dimensions": "241 x 164 x 38 mm",
  "weight": 0.607,
  "category": "book",
  "standardPrice": 18.99,
  "costFromSupplier": 9.78,
  "authorName": "Natalie Haynes",
  "publicationName": "Stone Blind",
  "ISBN": "9781529061475",
  "publisher": "Pan Macmillan",
  "tags": [

```

```

    "Magic",
    "Fantasy",
    "Greek Mythology"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51471"
  },
  "name": "Zanussi Series 20 Electric Built Under Double Oven",
  "description": "Zanussi Series 20 Electric Built Under Double Oven",
  "dimensions": "715 x 594 x 568 mm",
  "weight": 39.9,
  "category": "home appliance",
  "standardPrice": 499,
  "costFromSupplier": 205.7,
  "colour": "Stainless steel",
  "voltage": 240,
  "style": "major appliance",
  "tags": [
    "Oven",
    "Kitchen"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51472"
  },
  "name": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer",
  "description": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer",
  "dimensions": "174 x 55 x 58 mm",
  "weight": 48.2,
  "category": "home appliance",
  "standardPrice": 324.97,
  "costFromSupplier": 149.32,
  "colour": "Black",
  "voltage": 220,
  "style": "major appliance",
  "tags": [
    "Freezer",
    "Kitchen"
  ]
}, {
  "_id": {
    "$oid": "63b5aebe10540422a4a51478"
  },
  "name": "DeLonghi Dragon 4 2.5kW Oil Filled Radiator 10 Fin with 10 Year Warranty",
  "description": "DeLonghi Dragon 4 2.5kW Oil Filled Radiator 10 Fin with 10 Year Warranty",
  "dimensions": "650 x 520 x 160 mm",
  "weight": 17.5,
  "category": "home appliance",
  "standardPrice": 179.99,
  "costFromSupplier": 63.53,
  "colour": "White",
  "voltage": 240,
  "style": "major appliance",
  "tags": [
    "Heater",

```



```

        "Winter",
        "Living"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5147a"
    },
    "name": "Dyson V8 Absolute Cordless Stick Vacuum Cleaner",
    "description": "Dyson V8 Absolute Cordless Stick Vacuum Cleaner",
    "dimensions": "1250 x 250 x 230 mm",
    "weight": 2.6,
    "category": "home appliance",
    "standardPrice": 299,
    "costFromSupplier": 169.34,
    "colour": "Grey",
    "voltage": 220,
    "style": "major appliance",
    "tags": [
        "Cleaning",
        "Living"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a51446"
    },
    "name": "Apple",
    "description": "Pink lady apple",
    "dimensions": "5x5x5cm",
    "weight": 1.11,
    "category": "fruits",
    "standardPrice": 0.32,
    "costFromSupplier": 0.19,
    "expiryDate": {
        "$date": {
            "$numberLong": "1687219200000"
        }
    },
    "countryOfOrigin": "Spain",
    "tags": [
        "fruit",
        "healthy"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a51447"
    },
    "name": "Muffin",
    "description": "Triple chocolate muffin",
    "dimensions": "7x5x5cm",
    "weight": 3.48,
    "category": "bakery",
    "standardPrice": 0.8,
    "costFromSupplier": 0.35,
    "expiryDate": {
        "$date": {
            "$numberLong": "1672272000000"
        }
    }
},

```

```

    "countryOfOrigin": "United Kingdom",
    "tags": [
        "baked",
        "pastry"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5144a"
    },
    "name": "Bread Loaf",
    "description": "Wholemeal bread loaf",
    "dimensions": "30x10x8cm",
    "weight": 3.39,
    "category": "bakery",
    "standardPrice": 1.2,
    "costFromSupplier": 0.7,
    "expiryDate": {
        "$date": {
            "$numberLong": "1672099200000"
        }
    },
    "countryOfOrigin": "United Kingdom",
    "tags": [
        "baked",
        "breakfast"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5144e"
    },
    "name": "Cola",
    "description": "Super fizzy cola",
    "dimensions": "15x8x8cm",
    "weight": 0.42,
    "category": "drinks",
    "standardPrice": 1.3,
    "costFromSupplier": 0.61,
    "expiryDate": {
        "$date": {
            "$numberLong": "1751068800000"
        }
    },
    "countryOfOrigin": "United Kingdom",
    "tags": [
        "snack",
        "junk"
    ]
}, {
    "_id": {
        "$oid": "63b5aebe10540422a4a5145d"
    },
    "name": "There's Nothing But Space, Man!",
    "description": "There's Nothing But Space, Man!",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 7.99,
    "costFromSupplier": 4.97,

```

```

    "artistName": "Sam Ryder",
    "numberOfTracks": 14,
    "totalPlayingTime": 44.24,
    "publisher": "Parlophone",
    "tags": [
      "Indie",
      "Pop",
      "Classical",
      "Oldschool"
    ]
  }, {
    "_id": {
      "$oid": "63b5aebe10540422a4a51463"
    },
    "name": "Sonder",
    "description": "Sonder",
    "dimensions": "142 x 125 x 10 mm",
    "weight": 0.02,
    "category": "cd",
    "standardPrice": 7.99,
    "costFromSupplier": 2.99,
    "artistName": "Dermot Kennedy",
    "numberOfTracks": 11,
    "totalPlayingTime": 38.15,
    "publisher": "Island Records",
    "tags": [
      "Indie",
      "Oldschool",
      "Romance"
    ]
  }, {
    "_id": {
      "$oid": "63b5aebe10540422a4a5146a"
    },
    "name": "The Atlas Six",
    "description": "The Atlas Six",
    "dimensions": "197 x 129 x 43 mm",
    "weight": 0.403,
    "category": "book",
    "standardPrice": 8.99,
    "costFromSupplier": 4.35,
    "authorName": "Olivie Blake",
    "publicationName": "The Atlas Six",
    "ISBN": "9781529095258",
    "publisher": "Pan Macmillan",
    "tags": [
      "Magic",
      "Fantasy",
      "Fiction",
      "Atlas Series"
    ]
  }, {
    "_id": {
      "$oid": "63b5aebe10540422a4a51474"
    },
    "name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm Freestanding Washer
    Dryer",

```

```
    "description": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm Freestanding  
Washer Dryer",  
    "dimensions": "848 x 598 x 635 mm",  
    "weight": 81.176,  
    "category": "home appliance",  
    "standardPrice": 744.97,  
    "costFromSupplier": 457.25,  
    "colour": "White",  
    "voltage": 230,  
    "style": "major appliance",  
    "tags": [  
        "Washing",  
        "Kitchen"  
    ]  
}, {  
    "_id": {  
        "$oid": "63b5aebel0540422a4a51476"  
    },  
    "name": "Samsung AU7100 50 Inch 4K HDR Smart TV",  
    "description": "Samsung AU7100 50 Inch 4K HDR Smart TV",  
    "dimensions": "1120 x 650 x 60 mm",  
    "weight": 11.4,  
    "category": "home appliance",  
    "standardPrice": 377.97,  
    "costFromSupplier": 224.31,  
    "colour": "Titan grey",  
    "voltage": 220,  
    "style": "consumer electronic",  
    "tags": [  
        "Entertainment",  
        "Living"  
    ]  
}]
```

## WAREHOUSES JSON

```
[{
  "_id": {
    "$oid": "63ba15c97d7c8665672bc10a"
  },
  "Name": "Morrison Banana Street",
  "Type": "Morrison",
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.231942,
      53.478345
    ]
  }
}, {
  "_id": {
    "$oid": "63ba15c97d7c8665672bc10b"
  },
  "Name": "Morrison Express Camelot",
  "Type": "Morrison",
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.241899,
      53.484649
    ]
  }
}, {
  "_id": {
    "$oid": "63ba16277d7c8665672bc10d"
  },
  "Name": "Morrison Uncanny Valley",
  "Type": "Morrison",
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.210505,
      53.470489
    ]
  }
}, {
  "_id": {
    "$oid": "63ba16277d7c8665672bc10e"
  },
  "Name": "Morrison Express Mongoland",
  "Type": "Morrison",
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.22409,
      53.465006
    ]
  }
}, {
  "_id": {
    "$oid": "63ba16277d7c8665672bc10f"
  },
  "Name": "Morrison Tatooine",
```

```

    "Type": "Morrison",
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.225272,
        53.454817
      ]
    }
  }, {
    "_id": {
      "$oid": "63ba16277d7c8665672bc112"
    },
    "Name": "Rain Town Amazone Storage",
    "Type": "Amazone",
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.226311,
        53.44897
      ]
    }
  }, {
    "_id": {
      "$oid": "63ba16277d7c8665672bc10c"
    },
    "Name": "Morrison New Manchester",
    "Type": "Morrison",
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.179046,
        53.483813
      ]
    }
  }, {
    "_id": {
      "$oid": "63ba16277d7c8665672bc110"
    },
    "Name": "Amazone Depot Mongoland",
    "Type": "Amazone",
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.241039,
        53.476039
      ]
    }
  }, {
    "_id": {
      "$oid": "63ba16277d7c8665672bc111"
    },
    "Name": "Zochonis Prime Warehouse",
    "Type": "Amazone",
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.218541,
        53.511307
      ]
    }
  }
]

```

```
    ]
  }
}, {
  "_id": {
    "$oid": "63ba16277d7c8665672bc113"
  },
  "Name": "Amazone M16",
  "Type": "Amazone",
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.161483,
      53.45383
    ]
  }
}]
```

# DAILY INVENTORY LEVEL JSON

```
[{
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b15"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51445"
    },
    "Product Name": "Energy Drink"
  },
  "Stock Level": 0,
  "Warehouse ID": {
    "$oid": "63ba15c97d7c8665672bc10b"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673593941069"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b14"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51444"
    },
    "Product Name": "Croissant"
  },
  "Stock Level": 953,
  "Warehouse ID": {
    "$oid": "63ba15c97d7c8665672bc10a"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673593941069"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b18"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51448"
    },
    "Product Name": "Orange Juice"
  },
  "Stock Level": 7000,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc10e"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673529358548"
    }
  }
}]
```



```

}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b19"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51449"
    },
    "Product Name": "Lemon"
  },
  "Stock Level": 4935,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc10f"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673529358548"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b1c"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a5144c"
    },
    "Product Name": "Orange"
  },
  "Stock Level": 0,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc10d"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673593941069"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b1e"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a5144e"
    },
    "Product Name": "Cola"
  },
  "Stock Level": 884,
  "Warehouse ID": {
    "$oid": "63ba15c97d7c8665672bc10a"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673593941069"
    }
  }
}, {

```

```

    "_id": {
      "$oid": "63bdaa4ef39bb73e46ca7b2a"
    },
    "Product": {
      "Product_ID": {
        "$oid": "63b5aebe10540422a4a5145a"
      },
      "Product Name": "Google Pixel 7 Pro"
    },
    "Stock Level": 4993,
    "Warehouse ID": {
      "$oid": "63ba16277d7c8665672bc111"
    },
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63bdaa4ef39bb73e46ca7b2e"
    },
    "Product": {
      "Product_ID": {
        "$oid": "63b5aebe10540422a4a5145e"
      },
      "Product Name": "NOW That's What I Call a Massive 80s Party"
    },
    "Stock Level": 796,
    "Warehouse ID": {
      "$oid": "63ba16277d7c8665672bc110"
    },
    "Date": {
      "$date": {
        "$numberLong": "1673593941069"
      }
    }
  }, {
    "_id": {
      "$oid": "63bdaa4ef39bb73e46ca7b35"
    },
    "Product": {
      "Product_ID": {
        "$oid": "63b5aebe10540422a4a51465"
      },
      "Product Name": "Midnights: Moonstone Blue Edition"
    },
    "Stock Level": 10000,
    "Warehouse ID": {
      "$oid": "63ba16277d7c8665672bc112"
    },
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {

```

```

    "$oid": "63bdaa4ef39bb73e46ca7b3d"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a5146d"
    },
    "Product Name": "Fire and Blood - A Song of Ice and Fire"
  },
  "Stock Level": 3996,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc110"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673529358548"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b42"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51472"
    },
    "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer"
  },
  "Stock Level": 797,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc110"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673593941069"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b45"
  },
  "Product": {
    "Product_ID": {
      "$oid": "63b5aebe10540422a4a51475"
    },
    "Product Name": "Miele 14 Place Settings Fully Integrated Dishwasher"
  },
  "Stock Level": 2800,
  "Warehouse ID": {
    "$oid": "63ba16277d7c8665672bc113"
  },
  "Date": {
    "$date": {
      "$numberLong": "1673529358548"
    }
  }
}, {
  "_id": {
    "$oid": "63bdaa4ef39bb73e46ca7b1d"
  }
}

```

```

    },
    "Product": {
      "Product_ID": {
        "$oid": "63b5aebe10540422a4a5144d"
      },
      "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 39948,
    "Warehouse ID": {
      "$oid": "63ba16277d7c8665672bc10e"
    },
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63bdaa4ef39bb73e46ca7b1f"
    },
    "Product": {
      "Product_ID": {
        "$oid": "63b5aebe10540422a4a5144f"
      },
      "Product Name": "Passionfruit"
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    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9a0"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144b')",
      "Product Name": "Lemonade"
    },
    "Stock Level": 3629,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9a3"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144c')",
      "Product Name": "Orange"
    },
    "Stock Level": 1176,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9a5"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144c')",
      "Product Name": "Orange"
    },
    "Stock Level": 5566,

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```

    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10e')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9ab"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebel0540422a4a5144d')",
      "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 1155,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10e')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9ac"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebel0540422a4a5144d')",
      "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 4020,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9b4"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebel0540422a4a5144f')",
      "Product Name": "Passionfruit"
    },
    "Stock Level": 4046,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9b6"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebel0540422a4a5144f')",
      "Product Name": "Passionfruit"
    }
  }
]

```



```

    },
    "Stock Level": 1375,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9ba"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51450')",
      "Product Name": "Brownie"
    },
    "Stock Level": 9204,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9bc"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51450')",
      "Product Name": "Brownie"
    },
    "Stock Level": 2700,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9be"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51450')",
      "Product Name": "Brownie"
    },
    "Stock Level": 3351,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9bf"
    },
    "Product": {

```

```

        "Product_ID": "ObjectId('63b5aebe10540422a4a51451')",
        "Product Name": "Bottled Water"
    },
    "Stock Level": 6334,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
        "$date": {
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        }
    }
}, {
    "_id": {
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    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a51451')",
        "Product Name": "Bottled Water"
    },
    "Stock Level": 2660,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10e')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}, {
    "_id": {
        "$oid": "63beab865150176193baf9c4"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a51451')",
        "Product Name": "Bottled Water"
    },
    "Stock Level": 2622,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}, {
    "_id": {
        "$oid": "63beab865150176193baf9c5"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a51452')",
        "Product Name": "Peach"
    },
    "Stock Level": 4179,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}, {
    "_id": {
        "$oid": "63beab865150176193baf973"
    }
}

```

```

    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51444')",
      "Product Name": "Croissant"
    },
    "Stock Level": 5123,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
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      }
    }
  }, {
    "_id": {
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    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51446')",
      "Product Name": "Apple"
    },
    "Stock Level": 7610,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
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        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf985"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51447')",
      "Product Name": "Muffin"
    },
    "Stock Level": 7887,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf986"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51447')",
      "Product Name": "Muffin"
    },
    "Stock Level": 9703,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }
], {

```

```

    "_id": {
      "$oid": "63beab865150176193baf988"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51447')",
      "Product Name": "Muffin"
    },
    "Stock Level": 5379,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
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        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf991"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51449')",
      "Product Name": "Lemon"
    },
    "Stock Level": 5566,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf995"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144a')",
      "Product Name": "Bread Loaf"
    },
    "Stock Level": 9225,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf996"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144a')",
      "Product Name": "Bread Loaf"
    },
    "Stock Level": 2054,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }

```

```

    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf99c"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144b')",
      "Product Name": "Lemonade"
    },
    "Stock Level": 4163,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf99d"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144b')",
      "Product Name": "Lemonade"
    },
    "Stock Level": 8349,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf99e"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144b')",
      "Product Name": "Lemonade"
    },
    "Stock Level": 3239,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9a1"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144c')",
      "Product Name": "Orange"
    },
    "Stock Level": 9288,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
      "$date": {

```

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        "$numberLong": "1673529358548"
    }
}
}, {
    "_id": {
        "$oid": "63beab865150176193baf9a4"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a5144c')",
        "Product Name": "Orange"
    },
    "Stock Level": 8800,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}
}, {
    "_id": {
        "$oid": "63beab865150176193baf9a7"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a5144d')",
        "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 7163,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10a')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}
}, {
    "_id": {
        "$oid": "63beab865150176193baf9a8"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a5144d')",
        "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 1565,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
        "$date": {
            "$numberLong": "1673529358548"
        }
    }
}
}, {
    "_id": {
        "$oid": "63beab865150176193baf9aa"
    },
    "Product": {
        "Product_ID": "ObjectId('63b5aebe10540422a4a5144d')",
        "Product Name": "Pain Au Chocolat"
    },
    "Stock Level": 9267,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10d')",

```

```

    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9ae"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144e')",
      "Product Name": "Cola"
    },
    "Stock Level": 5415,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9b8"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a5144f')",
      "Product Name": "Passionfruit"
    },
    "Stock Level": 6358,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9bb"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51450')",
      "Product Name": "Brownie"
    },
    "Stock Level": 5788,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9c6"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51452')",
      "Product Name": "Peach"
    },
  },

```

```

    "Stock Level": 3060,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10b')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9c7"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51452')",
      "Product Name": "Peach"
    },
    "Stock Level": 3084,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10c')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9c9"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51452')",
      "Product Name": "Peach"
    },
    "Stock Level": 1971,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10e')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }, {
    "_id": {
      "$oid": "63beab865150176193baf9ca"
    },
    "Product": {
      "Product_ID": "ObjectId('63b5aebe10540422a4a51452')",
      "Product Name": "Peach"
    },
    "Stock Level": 7679,
    "Warehouse ID": "ObjectId('63ba15c97d7c8665672bc10f')",
    "Date": {
      "$date": {
        "$numberLong": "1673529358548"
      }
    }
  }
}
}]

```



## PARTNERS JSON

```
[{
  "_id": {
    "$oid": "63b88d85066488245e5959a2"
  },
  "Name": "Christy Stephenson",
  "Age": 23,
  "Gender": "Female",
  "Address": {
    "HouseNum": 13,
    "Street": "Grosvenor st",
    "City": "Manchester",
    "Postcode": "M123GB"
  },
  "Average Customer Rating": 4.3
}, {
  "_id": {
    "$oid": "63b88d85066488245e5959a3"
  },
  "Name": "Tony Starke",
  "Age": 36,
  "Gender": "Male",
  "Address": {
    "HouseNum": 43,
    "Street": "Jefferson cl",
    "City": "Manchester",
    "Postcode": "M155QD"
  },
  "Average Customer Rating": 5
}, {
  "_id": {
    "$oid": "63b88d85066488245e5959a5"
  },
  "Name": "Natasha Romanoffe",
  "Age": 25,
  "Gender": "Female",
  "Address": {
    "HouseNum": 12,
    "Street": "Soviet",
    "City": "Manchester",
    "Postcode": "M113FB"
  },
  "Average Customer Rating": 4.7
}, {
  "_id": {
    "$oid": "63b88d85066488245e5959a8"
  },
  "Name": "Kate Bishope",
  "Age": 18,
  "Gender": "Female",
  "Address": {
    "HouseNum": 616,
    "Street": "Earth",
    "City": "Manchester",
    "Postcode": "M155DP"
  },
  "Average Customer Rating": 2.3
}, {
```

```

    "_id": {
      "$oid": "63b88d85066488245e5959a4"
    },
    "Name": "Chrise Rogers",
    "Age": 32,
    "Gender": "Male",
    "Address": {
      "HouseNum": 71,
      "Street": "Stark",
      "City": "Manchester",
      "Postcode": "M1323B"
    },
    "Average Customer Rating": 4.3
  }, {
    "_id": {
      "$oid": "63b88d85066488245e5959ab"
    },
    "Name": "T'Challae",
    "Age": 36,
    "Gender": "Male",
    "Address": {
      "HouseNum": 92,
      "Street": "Foreverst",
      "City": "Manchester",
      "Postcode": "M167DS"
    },
    "Average Customer Rating": 5
  }, {
    "_id": {
      "$oid": "63b88d85066488245e5959a6"
    },
    "Name": "Wanda Maximoffe",
    "Age": 34,
    "Gender": "Female",
    "Address": {
      "HouseNum": 12,
      "Street": "Westview",
      "City": "Manchester",
      "Postcode": "M11111"
    },
    "Average Customer Rating": 5
  }, {
    "_id": {
      "$oid": "63b88d85066488245e5959a7"
    },
    "Name": "Peter Parkere",
    "Age": 20,
    "Gender": "Male",
    "Address": {
      "HouseNum": 75,
      "Street": "Park st",
      "City": "Manchester",
      "Postcode": "M1223B"
    },
    "Average Customer Rating": 4.9
  }, {
    "_id": {
      "$oid": "63b88d85066488245e5959a9"

```

```
},
  "Name": "Thore Odinson",
  "Age": 45,
  "Gender": "Male",
  "Address": {
    "HouseNum": 119,
    "Street": "Palace st",
    "City": "Manchester",
    "Postcode": "M166BD"
  },
  "Average Customer Rating": 4.7
}, {
  "_id": {
    "$oid": "63b88d85066488245e5959aa"
  },
  "Name": "Thantanose Dione",
  "Age": 36,
  "Gender": "Male",
  "Address": {
    "HouseNum": 16,
    "Street": "Picadilly st",
    "City": "Manchester",
    "Postcode": "M157GP"
  },
  "Average Customer Rating": 3.9
}]
```

# AVERAGE PRODUCT RATINGS JSON

```
[{
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c63"
  },
  "product id": {
    "$oid": "63b5aebe10540422a4a5144b"
  },
  "average rating": 2.83
}, {
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c65"
  },
  "product id": {
    "$oid": "63b5aebe10540422a4a5144d"
  },
  "average rating": 3
}, {
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c67"
  },
  "product id": {
    "$oid": "63b5aebe10540422a4a5144f"
  },
  "average rating": 3
}, {
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c69"
  },
  "product id": {
    "$oid": "63b5aebe10540422a4a51451"
  },
  "average rating": 3.83
}, {
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c6d"
  },
  "product id": {
    "$oid": "63b5aebe10540422a4a51455"
  },
  "average rating": 2.86
}, {
  "_id": {
    "$oid": "63bd9bcd16042cef2a603c6e"
  },
  "product id": {
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**CURRENT ORDERS OTHER JSON**

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            "Quantity": 1,
            "Weight": 0.2
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            "Quantity": 1,
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        "Quantity": 1,
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}
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        "Postcode": "M125AA",
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                53.4673
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Freezer",
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  }
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      "Quantity": 1,
      "Weight": 0.2
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          53.48371
        ]
      }
    }
  },
  "Current Order Items": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5146e"
      },
      "Product Name": "Harry Potter and the Philosopher's Stone",
      "Price": 7.99,
      "Quantity": 1,
      "Weight": 0.29
    }
  ],
  "Shipping Cost": 0,
  "Total Cost": 7.99,
  "Date": {
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  }
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    "Street": "Pdrive",
    "City": "Manchester",
    "Postcode": "M11AD",
    "Coordinates": {
      "type": "Point",
      "coordinates": [

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        -2.24469,
        53.48371
    ]
}
},
"Current Order Items": [
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        "Product Name": "Harry Potter and the Philosopher's Stone",
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        "Quantity": 1,
        "Weight": 0.29
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        "City": "Manchester",
        "Postcode": "M11AE",
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    }
},
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            "$oid": "63b5aebel10540422a4a5145c"
        },
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        "Price": 450,
        "Quantity": 1,
        "Weight": 0.2
    }
],
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"Total Cost": 455,
"Date": {
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}
}, {
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        "City": "Manchester",
        "Postcode": "M11AG",
        "Coordinates": {
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            "coordinates": [
                -2.23138,
                53.48333
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        }
    },
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                "$oid": "63b5aeb10540422a4a5145c"
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            "Product Name": "Samsung Galaxy Note 3",
            "Price": 450,
            "Quantity": 1,
            "Weight": 0.2
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    "Total Cost": 455,
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        "Postcode": "M11AQ",
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    }
}

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    ]
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    },
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    "Price": 450,
    "Quantity": 1,
    "Weight": 0.2
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  "Shipping Address": {
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    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AS",
    "Coordinates": {
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      "coordinates": [
        -2.23404,
        53.48305
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    }
  }
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  {
    "Product ID": {
      "$oid": "63b5aebel10540422a4a5145f"
    },
    "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
    "Price": 9.99,
    "Quantity": 1,
    "Weight": 0.02
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],
"Shipping Cost": 0,
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"Date": {
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}

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    }
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    },
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      "Street": "New India",
      "City": "Manchester",
      "Postcode": "M11AR",
      "Coordinates": {
        "type": "Point",
        "coordinates": [
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          53.48358
        ]
      }
    }
  },
  "Current Order Items": [
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      "Product ID": {
        "$oid": "63b5aeb10540422a4a5145f"
      },
      "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
      "Price": 9.99,
      "Quantity": 1,
      "Weight": 0.02
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  "Total Cost": 9.99,
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    "City": "Manchester",
    "Postcode": "M11AR",
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        53.48358
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  }
}

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        "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
        "Price": 9.99,
        "Quantity": 1,
        "Weight": 0.02
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    },
    "Shipping Address": {
      "HouseNum": 69,
      "Street": "Kangaroo Drive",
      "City": "Manchester",
      "Postcode": "M111NQ",
      "Coordinates": {
        "type": "Point",
        "coordinates": [
          -2.16683,
          53.47479
        ]
      }
    }
  },
  "Current Order Items": [
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        "$oid": "63b5aebe10540422a4a5145f"
      },
      "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
      "Price": 9.99,
      "Quantity": 1,
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}, {

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      "City": "Manchester",
      "Postcode": "M111NQ",
      "Coordinates": {
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          "$oid": "63b5aebel0540422a4a5145f"
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      "City": "Manchester",
      "Postcode": "M124UU",
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          53.46332
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    "Current Order Items": [

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    {
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      },
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      "Price": 22,
      "Quantity": 1,
      "Weight": 0.863
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    "City": "Manchester",
    "Postcode": "M124UU",
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        53.46332
      ]
    }
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},
  "Current Order Items": [
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      },
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      "Quantity": 1,
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      "City": "Manchester",
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    },
    },
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        "Product Name": "Babel: An Arcane History",
        "Price": 16.99,
        "Quantity": 1,
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      "City": "Manchester",
      "Postcode": "M133DT",
      "Coordinates": {
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        "coordinates": [
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          38.89037
        ]
      }
    },
    },
    "Current Order Items": [
      {
        "Product ID": {

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        "$oid": "63b5aebel0540422a4a51462"
      },
      "Product Name": "Michael Ball/Alfie Boe: Together in Vegas",
      "Price": 7.99,
      "Quantity": 1,
      "Weight": 0.02
    }
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    "City": "Manchester",
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        38.89037
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  }
},
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    },
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    "Price": 7.99,
    "Quantity": 1,
    "Weight": 0.02
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  "Customer ID": {

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    "$oid": "63b8707d066488245e595993"
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    "City": "Manchester",
    "Postcode": "M13D33",
    "Coordinates": {
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      "coordinates": [
        -99.01037,
        19.62667
      ]
    }
  },
  "Current Order Items": [
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a51462"
      },
      "Product Name": "Michael Ball/Alfie Boe: Together in Vegas",
      "Price": 7.99,
      "Quantity": 1,
      "Weight": 0.02
    }
  ],
  "Shipping Cost": 0,
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    "Street": "Hulme Street",
    "City": "Manchester",
    "Postcode": "M13D33",
    "Coordinates": {
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        19.62667
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  },
  "Current Order Items": [
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      },

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        "Quantity": 1,
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        "City": "Manchester",
        "Postcode": "M14G4Y",
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    }
}, {
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            "Price": 1400,
            "Quantity": 1,
            "Weight": 0.2
        }
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    "Total Cost": 1420,
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    "Customer ID": {
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    "coordinates": [
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      53.45502
    ]
  }
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    "Price": 1400,
    "Quantity": 1,
    "Weight": 0.2
  }
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    "City": "Manchester",
    "Postcode": "M145DS",
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      "coordinates": [
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        53.45502
      ]
    }
  }
},
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    "Product ID": {
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    },
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    "Price": 1400,
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        "Quantity": 1,
        "Weight": 0.2
    }
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    },
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        "Street": "Tariq Road",
        "City": "Manchester",
        "Postcode": "M125AA",
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            "coordinates": [
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                53.4673
            ]
        }
    },
    "Current Order Items": [
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            "Product ID": {
                "$oid": "63b5aebe10540422a4a51456"
            },
            "Product Name": "Samsung Galaxy S22 Ultra",
            "Price": 1400,
            "Quantity": 1,
            "Weight": 0.2
        },
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a51472"
            },
            "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge
Freezer",
            "Price": 324.97,
            "Quantity": 1,
            "Weight": 48.2
        }
    ],
    "Shipping Cost": 40,
    "Total Cost": 1764.97,
    "Date": {
        "$date": {
            "$numberLong": "1673060944000"
        }
    }
}

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    }
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      "Street": "Element",
      "City": "Manchester",
      "Postcode": "M14 5DT",
      "Coordinates": {
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        "coordinates": [
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          53.45434
        ]
      }
    },
    "Current Order Items": [
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        },
        "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge
Freezer",
        "Price": 324.97,
        "Quantity": 1,
        "Weight": 48.2
      }
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    },
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        "HouseNum": 23,
        "Street": "Maplewood Gardens",
        "City": "Manchester",
        "Postcode": "M11AA",
        "Coordinates": {
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          "coordinates": [
            -2.23404,
            53.48305
          ]
        }
      }
    ]
  }
]

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```
    ]
  }
}
],
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      "$oid": "63b5aebel10540422a4a51459"
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    "Price": 60,
    "Quantity": 2,
    "Weight": 0.2
  },
  {
    "Product ID": {
      "$oid": "63b5aebel10540422a4a5145a"
    },
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    "Price": 700,
    "Quantity": 4,
    "Weight": 0.2
  }
],
"Shipping Cost": 20,
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}
}]
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## Current Orders Fresh JSON

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    "Street": "Kangaroo Drive",
    "City": "Manchester",
    "Postcode": "M111NQ",
    "Coordinates": {
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      "coordinates": [
        -2.16683,
        53.47479
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    }
  },
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"Current Order Items": [
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    "Quantity": 83
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    "Product Name": "Cola",
    "Price": 1.3,
    "Quantity": 83
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    },
    "Product Name": "Peach",
    "Price": 0.6,
    "Quantity": 83
  },
  {
    "Product ID": {
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    "Product Name": "Apple",
    "Price": 0.32,
    "Quantity": 83
  }
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"Shipping Cost": 0,
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    "Quantity": 83
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    "Product Name": "Apple",
    "Price": 0.32,
    "Quantity": 83
  }
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    "City": "Manchester",
    "Postcode": "M145DS",
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      "Product Name": "Energy Drink",
      "Price": 1.35,
      "Quantity": 83
    },
    {
      "Product ID": {
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      },
      "Product Name": "Pain Au Chocolat",
      "Price": 0.5,
      "Quantity": 83
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144e"
      },
      "Product Name": "Cola",
      "Price": 1.3,
      "Quantity": 83
    },
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        "$oid": "63b5aebe10540422a4a5144f"
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      "Product Name": "Passionfruit",
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    "Price": 0.7,
    "Quantity": 83
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  {
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    "Product Name": "Bread Loaf",
    "Price": 1.2,
    "Quantity": 83
  }
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"Total Cost": 419.15,
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},
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  }
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    "City": "Manchester",
    "Postcode": "M14 5DT",
    "Coordinates": {
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      "coordinates": [
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        53.45434
      ]
    }
  }
},
"Current Order Items": [
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    "Product Name": "Energy Drink",
    "Price": 1.35,
    "Quantity": 83
  },
  {
    "Product ID": {

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    },
    "Product Name": "Cola",
    "Price": 1.3,
    "Quantity": 83
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    },
    "Product Name": "Lemon",
    "Price": 0.4,
    "Quantity": 83
},
{
    "Product ID": {
        "$oid": "63b5aebe10540422a4a51452"
    },
    "Product Name": "Peach",
    "Price": 0.6,
    "Quantity": 83
},
{
    "Product ID": {
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    },
    "Product Name": "Croissant",
    "Price": 0.6,
    "Quantity": 83
}
],
"Shipping Cost": 0,
"Total Cost": 352.75,
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    "$date": {
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    }
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        "$numberLong": "1673541638165"
    }
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}
},{
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    },
    "Customer ID": {
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    },
    "Shipping Address": {
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        "Street": "Kappaloom",
        "City": "Manchester",
        "Postcode": "M111NR",
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    }
  },
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      "Product ID": {
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      },
      "Product Name": "Pain Au Chocolat",
      "Price": 0.5,
      "Quantity": 83
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51452"
      },
      "Product Name": "Peach",
      "Price": 0.6,
      "Quantity": 83
    },
    {
      "Product ID": {
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      },
      "Product Name": "Energy Drink",
      "Price": 1.35,
      "Quantity": 83
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144b"
      },
      "Product Name": "Lemonade",
      "Price": 2.5,
      "Quantity": 83
    }
  ],
  "Shipping Cost": 0,
  "Total Cost": 410.85,
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    }
  },
  "ETA": {
    "$date": {
      "$numberLong": "1673539836518"
    }
  },
  "Partner ID": {
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  }
}, {

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},
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  "Street": "Maplewood Gardens",
  "City": "Manchester",
  "Postcode": "M11AA",
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    "type": "Point",
    "coordinates": [
      -2.23404,
      53.48305
    ]
  }
},
"Current Order Items": [
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      "$oid": "63b5aebe10540422a4a51452"
    },
    "Product Name": "Peach",
    "Price": 0.6,
    "Quantity": 83
  },
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    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144e"
    },
    "Product Name": "Cola",
    "Price": 1.3,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51444"
    },
    "Product Name": "Croissant",
    "Price": 0.6,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51451"
    },
    "Product Name": "Bottled Water",
    "Price": 1.1,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144a"
    },
    "Product Name": "Bread Loaf",
    "Price": 1.2,
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    "Quantity": 83
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"Shipping Cost": 0,
"Total Cost": 398.4,
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},
"ETA": {
  "$date": {
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  }
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}, {
  "_id": {
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  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595987"
  },
  "Shipping Address": {
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    "Street": "Zindrive",
    "City": "Manchester",
    "Postcode": "M11AQ",
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      "type": "Point",
      "coordinates": [
        -2.23035,
        53.48312
      ]
    }
  }
},
"Current Order Items": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144d"
    },
    "Product Name": "Pain Au Chocolat",
    "Price": 0.5,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51446"
    },
    "Product Name": "Apple",
    "Price": 0.32,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144f"
    }
  }
]

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    },
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    "Price": 0.7,
    "Quantity": 83
  }
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"Total Cost": 126.16,
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},
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  },
  "Shipping Address": {
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    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AS",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.23404,
        53.48305
      ]
    }
  }
},
"Current Order Items": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51451"
    },
    "Product Name": "Bottled Water",
    "Price": 1.1,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51447"
    },
    "Product Name": "Muffin",
    "Price": 0.8,
    "Quantity": 83
  },

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{
  "Product ID": {
    "$oid": "63b5aebe10540422a4a51450"
  },
  "Product Name": "Brownie",
  "Price": 0.8,
  "Quantity": 83
},
{
  "Product ID": {
    "$oid": "63b5aebe10540422a4a51448"
  },
  "Product Name": "Orange Juice",
  "Price": 2.1,
  "Quantity": 83
},
{
  "Product ID": {
    "$oid": "63b5aebe10540422a4a5144c"
  },
  "Product Name": "Orange",
  "Price": 0.5,
  "Quantity": 83
}
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},
"ETA": {
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  "Customer ID": {
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  },
  "Shipping Address": {
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    "Street": "Sumrift",
    "City": "Manchester",
    "Postcode": "M124UR",
    "Coordinates": {
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      "coordinates": [
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        53.46454
      ]
    }
  }
}

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    }
  },
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144e"
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      "Product Name": "Cola",
      "Price": 1.3,
      "Quantity": 83
    }
  ],
  "Shipping Cost": 0,
  "Total Cost": 107.9,
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    }
  },
  "ETA": {
    "$date": {
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    }
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  },
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    "Street": "Sundrive",
    "City": "Manchester",
    "Postcode": "M124WJ",
    "Coordinates": {
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      "coordinates": [
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        53.46034
      ]
    }
  }
},
  "Current Order Items": [
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a51446"
      },
      "Product Name": "Apple",
      "Price": 0.32,
      "Quantity": 83
    },
    {
      "Product ID": {

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        "$oid": "63b5aebe10540422a4a5144c"
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    "Price": 0.5,
    "Quantity": 83
}
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"Shipping Cost": 0,
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},
"ETA": {
    "$date": {
        "$numberLong": "1673543436991"
    }
},
"Partner ID": {
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}
}, {
    "_id": {
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    },
    "Customer ID": {
        "$oid": "63b8707d066488245e595992"
    },
    "Shipping Address": {
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        "Street": "Rusholme",
        "City": "Manchester",
        "Postcode": "M11JG",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
                -2.23633,
                53.48233
            ]
        }
    },
    "Current Order Items": [
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a5144f"
            },
            "Product Name": "Passionfruit",
            "Price": 0.7,
            "Quantity": 83
        },
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a5144a"
            },
            "Product Name": "Bread Loaf",
            "Price": 1.2,
            "Quantity": 83
        }
    ]
}

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    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51450"
      },
      "Product Name": "Brownie",
      "Price": 0.8,
      "Quantity": 83
    }
  ],
  "Shipping Cost": 0,
  "Total Cost": 224.1,
  "Date": {
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      "$numberLong": "1673361644000"
    }
  },
  "ETA": {
    "$date": {
      "$numberLong": "1673548538378"
    }
  },
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  }
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  "_id": {
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  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595993"
  },
  "Shipping Address": {
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    "Street": "Hulme Street",
    "City": "Manchester",
    "Postcode": "M146QL",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.21023,
        53.44017
      ]
    }
  },
  "Current Order Items": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144c"
      },
      "Product Name": "Orange",
      "Price": 0.5,
      "Quantity": 83
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51452"
      },

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    "Price": 0.6,
    "Quantity": 83
  }
],
"Shipping Cost": 0,
"Total Cost": 91.3,
"Date": {
  "$date": {
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},
"ETA": {
  "$date": {
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  }
},
"Partner ID": {
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},
},{
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  "Customer ID": {
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  },
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    "Street": "Ann",
    "City": "Manchester",
    "Postcode": "M145ET",
    "Coordinates": {
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      "coordinates": [
        -2.21648,
        53.45699
      ]
    }
  }
},
"Current Order Items": [
  {
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      "$oid": "63b5aebe10540422a4a51444"
    },
    "Product Name": "Croissant",
    "Price": 0.6,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144b"
    },
    "Product Name": "Lemonade",
    "Price": 2.5,
    "Quantity": 83
  },
  {
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  "$oid": "63b5aebe10540422a4a51451"
},
"Product Name": "Bottled Water",
"Price": 1.1,
"Quantity": 83
},
{
  "Product ID": {
    "$oid": "63b5aebe10540422a4a51448"
  },
  "Product Name": "Orange Juice",
  "Price": 2.1,
  "Quantity": 83
},
{
  "Product ID": {
    "$oid": "63b5aebe10540422a4a51447"
  },
  "Product Name": "Muffin",
  "Price": 0.8,
  "Quantity": 83
}
],
"Shipping Cost": 0,
"Total Cost": 589.3,
"Date": {
  "$date": {
    "$numberLong": "1673358192000"
  }
},
"ETA": {
  "$date": {
    "$numberLong": "1673550338716"
  }
},
"Partner ID": {
  "$oid": "63b88d85066488245e5959aa"
}
},{
  "_id": {
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  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595996"
  },
  "Shipping Address": {
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    "Street": "Tariq Road",
    "City": "Manchester",
    "Postcode": "M125AA",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.19743,
        53.4673
      ]
    }
  }
}
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},
"Current Order Items": [
  {
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    "Product Name": "Pain Au Chocolat",
    "Price": 0.5,
    "Quantity": 83
  }
],
"Shipping Cost": 0,
"Total Cost": 41.5,
"Date": {
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  }
},
"ETA": {
  "$date": {
    "$numberLong": "1673541637993"
  }
},
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  "Customer ID": {
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  },
  "Shipping Address": {
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    "Street": "Zaun",
    "City": "Manchester",
    "Postcode": "M124UU",
    "Coordinates": {
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      "coordinates": [
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        53.46332
      ]
    }
  }
},
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    },
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    "Price": 0.5,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144f"
    }
  }
]

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    },
    "Product Name": "Passionfruit",
    "Price": 0.7,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51448"
    },
    "Product Name": "Orange Juice",
    "Price": 2.1,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51451"
    },
    "Product Name": "Bottled Water",
    "Price": 1.1,
    "Quantity": 83
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144a"
    },
    "Product Name": "Bread Loaf",
    "Price": 1.2,
    "Quantity": 83
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    "Street": "Pdrive",
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    "Postcode": "M11AD",
    "Coordinates": {

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            "Quantity": 83
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            "Product Name": "Muffin",
            "Price": 0.8,
            "Quantity": 83
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        "Postcode": "M11AE",
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      "Quantity": 83
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      "Quantity": 83
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    "City": "Manchester",
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    "Quantity": 83
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# ORDER STATUS JSON

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  "Rating": 2
}, {
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  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a2"
  },
  "Order ID": {
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  "Rating": 4
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  "Order ID": {
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  "Rating": 5
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  "Order ID": {
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  "Rating": 5
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  "Rating": 5
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  "Order ID": {
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    "$oid": "63b892b80fe4d12f91b3271d"
  },
  "Rating": 1
}
```



```
},{
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  },
  "Order ID": {
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  },
  "Rating": 1
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  "Partner ID": {
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  },
  "Order ID": {
    "$oid": "63b892b80fe4d12f91b3271d"
  },
  "Rating": 3
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  "_id": {
    "$oid": "63b9f6f35261f32b0dc8f4a2"
  },
  "Partner ID": {
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  },
  "Order ID": {
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  },
  "Rating": 4
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  "_id": {
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  },
  "Order ID": {
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  },
  "Rating": 3
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  "_id": {
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  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a8"
  },
  "Order ID": {
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  },
  "Rating": 4
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  "_id": {
    "$oid": "63b9f6f45261f32b0dc8f4a5"
```

```
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    },
    "Rating": 4
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    },
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    "Order ID": {
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    },
    "Rating": 5
  }, {
    "_id": {
      "$oid": "63b9f6f45261f32b0dc8f4a7"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a4"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271e"
    },
    "Rating": 2
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    "_id": {
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    },
    "Partner ID": {
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    },
    "Order ID": {
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    },
    "Rating": 5
  }, {
    "_id": {
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    },
    "Partner ID": {
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    },
    "Order ID": {
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    },
    "Rating": 2
  }, {
    "_id": {
      "$oid": "63b9f6f55261f32b0dc8f4aa"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a7"
```

```
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    },
    "Rating": 2
  }, {
    "_id": {
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    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a4"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    },
    "Rating": 1
  }, {
    "_id": {
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    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a9"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    },
    "Rating": 2
  }, {
    "_id": {
      "$oid": "63b9f6f65261f32b0dc8f4ad"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959aa"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    },
    "Rating": 3
  }, {
    "_id": {
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    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a2"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    },
    "Rating": 2
  }, {
    "_id": {
      "$oid": "63b9f6f65261f32b0dc8f4af"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959ab"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b3271f"
    }
  }
```

```
    },
    "Rating": 2
  }, {
    "_id": {
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    "Partner ID": {
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    "Order ID": {
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    "Rating": 5
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    "Partner ID": {
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    "Order ID": {
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    "Rating": 5
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    },
    "Partner ID": {
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    "Order ID": {
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    },
    "Rating": 3
  }, {
    "_id": {
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    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a3"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b32720"
    },
    "Rating": 5
  }, {
    "_id": {
      "$oid": "63b9f6f85261f32b0dc8f4b4"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a2"
    },
    "Order ID": {
      "$oid": "63b892b80fe4d12f91b32720"
    },
    "Rating": 5
  }, {
```

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"_id": {
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  "$oid": "63b88d85066488245e5959aa"
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"Order ID": {
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},
"Rating": 2
}, {
  "_id": {
    "$oid": "63b9f6f85261f32b0dc8f4b6"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a6"
  },
  "Order ID": {
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  },
  "Rating": 4
}, {
  "_id": {
    "$oid": "63b9f6f85261f32b0dc8f4b7"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a9"
  },
  "Order ID": {
    "$oid": "63b892b80fe4d12f91b32721"
  },
  "Rating": 4
}, {
  "_id": {
    "$oid": "63b9f6f95261f32b0dc8f4b8"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a5"
  },
  "Order ID": {
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  },
  "Rating": 5
}, {
  "_id": {
    "$oid": "63b9f6f95261f32b0dc8f4b9"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a4"
  },
  "Order ID": {
    "$oid": "63b892b80fe4d12f91b32721"
  },
  "Rating": 3
}, {
  "_id": {
    "$oid": "63b9f6f95261f32b0dc8f4ba"
  },
```

```
"Partner ID": {  
  "$oid": "63b88d85066488245e5959a7"  
},  
"Order ID": {  
  "$oid": "63b892b80fe4d12f91b32721"  
},  
"Rating": 5  
}]
```

# PARTNER STATUS JSON

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  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7dde"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a2"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
    {
      "$oid": "63c08f94a8030dab23ebb4a2"
    }
  ],
  "Current Order": {
    "$oid": "63c08f94a8030dab23ebb4a2"
  },
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.249629,
      53.475607
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061990"
    }
  }
}, {
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7ddf"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a3"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
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      "$oid": "63bffedc704e0c138b6fb80d"
    },
    {
      "$oid": "63bffedc704e0c138b6fb812"
    },
    {
      "$oid": "63bffedc704e0c138b6fb81b"
    },
    {
      "$oid": "63c08ef6a8030dab23ebb4a0"
    },
    {
      "$oid": "63c08f32a8030dab23ebb4a1"
    }
  ],
  "Current Order": {
    "$oid": "63bffedc704e0c138b6fb80d"
  }
}]
```

```

    },
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.242198,
        53.482298
      ]
    },
    "lastModified": {
      "$date": {
        "$numberLong": "1673440061990"
      }
    }
  }, {
    "_id": {
      "$oid": "63bd7b59e882a54ee3ab7de0"
    },
    "Partner ID": {
      "$oid": "63b88d85066488245e5959a4"
    },
    "Status": "Active",
    "Delivery Progress": "On the way",
    "Orders": [
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      },
      {
        "$oid": "63bffedc704e0c138b6fb80e"
      },
      {
        "$oid": "63bffedc704e0c138b6fb80f"
      },
      {
        "$oid": "63bffedc704e0c138b6fb810"
      },
      {
        "$oid": "63bffedc704e0c138b6fb811"
      }
    ],
    "Current Order": {
      "$oid": "63bffedc704e0c138b6fb80c"
    },
    "Location": {
      "type": "Point",
      "coordinates": [
        -2.239453,
        53.483873
      ]
    },
    "lastModified": {
      "$date": {
        "$numberLong": "1673440061990"
      }
    }
  }, {
    "_id": {
      "$oid": "63bd7b59e882a54ee3ab7de1"
    },

```



```
"Partner ID": {
  "$oid": "63b88d85066488245e5959a5"
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"Delivery Progress": "On the way",
"Orders": [
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    "$oid": "63bffedc704e0c138b6fb814"
  }
],
"Current Order": {
  "$oid": "63bffedc704e0c138b6fb814"
},
"Location": {
  "type": "Point",
  "coordinates": [
    -2.192664,
    53.479732
  ]
},
"lastModified": {
  "$date": {
    "$numberLong": "1673440061991"
  }
}
},{
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de2"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a6"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
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      "$oid": "63bffedc704e0c138b6fb813"
    }
  ],
  "Current Order": {
    "$oid": "63bffedc704e0c138b6fb813"
  },
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.176708,
      53.488306
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061991"
    }
  }
}
},{
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de3"
  },
```

```
"Partner ID": {
  "$oid": "63b88d85066488245e5959a7"
},
"Status": "Active",
"Delivery Progress": "On the way",
"Orders": [
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    "$oid": "63bffedc704e0c138b6fb818"
  },
  {
    "$oid": "63bffedc704e0c138b6fb81f"
  },
  {
    "$oid": "63c091d6a8030dab23ebb4a6"
  }
],
"Current Order": {
  "$oid": "63bffedc704e0c138b6fb818"
},
"Location": {
  "type": "Point",
  "coordinates": [
    -2.214705,
    53.471936
  ]
},
"lastModified": {
  "$date": {
    "$numberLong": "1673440061991"
  }
}
}, {
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de4"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a8"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
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      "$oid": "63bffedc704e0c138b6fb815"
    },
    {
      "$oid": "63bffedc704e0c138b6fb816"
    },
    {
      "$oid": "63bffedc704e0c138b6fb817"
    },
    {
      "$oid": "63bffedc704e0c138b6fb819"
    },
    {
      "$oid": "63bffedc704e0c138b6fb81a"
    }
  ],
  "Current Order": {
```

```
    "$oid": "63bffedc704e0c138b6fb815"
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    "type": "Point",
    "coordinates": [
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      53.46716
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061991"
    }
  }
}, {
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de5"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959a9"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
    {
      "$oid": "63c096cda8030dab23ebb4a9"
    }
  ],
  "Current Order": {
    "$oid": "63c096cda8030dab23ebb4a9"
  },
  "Location": {
    "type": "Point",
    "coordinates": [
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      53.467352
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061991"
    }
  }
}, {
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de6"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959aa"
  },
  "Status": "Active",
  "Delivery Progress": "On the way",
  "Orders": [
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      "$oid": "63bffedc704e0c138b6fb81e"
    },
    {
      "$oid": "63bffedc704e0c138b6fb820"
    }
  ]
}
```

```

    },
    {
      "$oid": "63bffedc704e0c138b6fb81c"
    },
    {
      "$oid": "63bffedc704e0c138b6fb81d"
    }
  ],
  "Current Order": {
    "$oid": "63bffedc704e0c138b6fb81e"
  },
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.223654,
      53.453064
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061991"
    }
  }
}, {
  "_id": {
    "$oid": "63bd7b59e882a54ee3ab7de7"
  },
  "Partner ID": {
    "$oid": "63b88d85066488245e5959ab"
  },
  "Status": "Active",
  "Delivery Progress": "Not On Errand",
  "Orders": [],
  "Current Order": null,
  "Location": {
    "type": "Point",
    "coordinates": [
      -2.243791,
      53.464484
    ]
  },
  "lastModified": {
    "$date": {
      "$numberLong": "1673440061991"
    }
  }
}
}]

```

## PAST ORDERS JSON

```
[{
  "_id": {
    "$oid": "63bc397b0fe4d12f91b331e8"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595983"
  },
  "Shipping Address": {
    "HouseNum": 23,
    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AA",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.23404,
        53.48305
      ]
    }
  },
}, {
  "Past Order Items": [
    {
      "Product ID": {
        "$oid": "63b5aeb10540422a4a5145d"
      },
      "Product Name": "There's Nothing But Space, Man!",
      "Price": 7.99,
      "Quantity": 4,
      "Weight": 0.02
    }
  ],
  "Shipping Cost": 0,
  "Total Cost": 31.96,
  "Date": {
    "$date": {
      "$numberLong": "1588253375000"
    }
  }
}, {
  "_id": {
    "$oid": "63bc397b0fe4d12f91b331f0"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595984"
  },
  "Shipping Address": {
    "HouseNum": 12,
    "Street": "Pdrive",
    "City": "Manchester",
    "Postcode": "M11AD",
    "Coordinates": {
      "type": "Point",
      "coordinates": [
        -2.24469,
        53.48371
      ]
    }
  }
}]
```

```

},
"Past Order Items": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51455"
    },
    "Product Name": "Samsung Galaxy S9",
    "Price": 600,
    "Quantity": 3,
    "Weight": 0.2
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    "Product Name": "KitchenAid Classic 4.3L Stand Mixer",
    "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,
    "Weight": 11.4
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    "City": "Manchester",
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"Past Order Items": [

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      "Product Name": "The Handmaid's Tale",
      "Price": 9.99,
      "Quantity": 1,
      "Weight": 0.223
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    {
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      },
      "Product Name": "The Atlas Six",
      "Price": 8.99,
      "Quantity": 5,
      "Weight": 0.403
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Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 2,
      "Weight": 81.176
    }
  ],
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      "Price": 11.99,
      "Quantity": 3,
      "Weight": 0.02
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  "Shipping Cost": 0,
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      "Price": 1200,
      "Quantity": 3,
      "Weight": 0.2
    },
    {
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        "$oid": "63b5aebel10540422a4a51475"
      },
      "Product Name": "Miele 14 Place Settings Fully Integrated
Dishwasher",
      "Price": 999.97,
      "Quantity": 2,
      "Weight": 93.3
    }
  ],
  "Shipping Cost": 40,
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    "Street": "Pdrive",
    "City": "Manchester",
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      "Product Name": "Orange Juice",
      "Price": 2.1,
      "Quantity": 41
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    }
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      "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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    },
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      "Product Name": "Sony Xperia XZ",
      "Price": 60,
      "Quantity": 2,
      "Weight": 0.2
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      "Product ID": {
        "$oid": "63b5aeb10540422a4a5145b"
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      "Product Name": "Apple iPhone XS",
      "Price": 900,
      "Quantity": 4,
      "Weight": 0.2
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      "Price": 18.99,
      "Quantity": 2,
      "Weight": 0.607
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    "Product Name": "Blood of Elves - The Witcher 1",
    "Price": 9.99,
    "Quantity": 1,
    "Weight": 0.28
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    "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
    "Price": 9.99,
    "Quantity": 4,
    "Weight": 0.02
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    "Price": 16.99,
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    "Product Name": "Lemon",
    "Price": 0.4,
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    "Quantity": 75
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    "Quantity": 4,
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    },
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    "Price": 50,
    "Quantity": 3,
    "Weight": 0.2
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  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5147a"
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    "Price": 299,
    "Quantity": 4,
    "Weight": 2.6
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    "Postcode": "M11AG",
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    "Product Name": "Only the Strong Survive",
    "Price": 11.99,
    "Quantity": 2,
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        "Weight": 0.02
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            "$oid": "63b5aebe10540422a4a51453"
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        "Price": 400,
        "Quantity": 5,
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        "Price": 60,
        "Quantity": 1,
        "Weight": 0.2
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        "Product ID": {
            "$oid": "63b5aebe10540422a4a5146d"
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        "Product Name": "Fire and Blood - A Song of Ice and Fire",
        "Price": 9.99,
        "Quantity": 5,
        "Weight": 0.52
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      "Weight": 0.02
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    }
  }
},
  "Past Order Items": [
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      },
      "Product Name": "Orange Juice",
      "Price": 2.1,
      "Quantity": 26
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    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51445"
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      "Product Name": "Energy Drink",
      "Price": 1.35,
      "Quantity": 87
    }
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      "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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        "Price": 8.99,
        "Quantity": 1,
        "Weight": 0.403
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        "Quantity": 4,
        "Weight": 0.2
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        },
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Freestanding Washer Dryer",
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        "Quantity": 3,
        "Weight": 81.176
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    "Price": 0.4,
    "Quantity": 80
  }
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"Shipping Cost": 4,
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    "Postcode": "M11AS",
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    "Price": 0.6,
    "Quantity": 71
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    "City": "Manchester",
    "Postcode": "M111NR",
    "Coordinates": {
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        53.46961
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  }
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    },
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    "Price": 1.3,
    "Quantity": 61
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    },
    "Product Name": "Bread Loaf",
    "Price": 1.2,
    "Quantity": 82
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    },
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    "Price": 1.1,
    "Quantity": 83
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        53.46961
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  }
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    "Product Name": "Bottled Water",
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"Shipping Cost": 4,
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            "Quantity": 1,
            "Weight": 0.2
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            "Product Name": "Blood of Elves - The Witcher 1",
            "Price": 9.99,
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            "Weight": 0.28
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      "Product Name": "Orange Juice",
      "Price": 2.1,
      "Quantity": 54
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      "Product Name": "Cola",
      "Price": 1.3,
      "Quantity": 32
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  "Shipping Cost": 0,
  "Total Cost": 155,
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      "Quantity": 78
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      "Product ID": {
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      "Product Name": "Pain Au Chocolat",
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        "Price": 18.99,
        "Quantity": 3,
        "Weight": 0.664
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        "Product ID": {
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        "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge
Freezer",
        "Price": 324.97,
        "Quantity": 1,
        "Weight": 48.2
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            "Product Name": "Harry's House",
            "Price": 11.99,
            "Quantity": 2,
            "Weight": 0.02
        },
        {
            "Product ID": {
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            },
            "Product Name": "Fairy Tale",
            "Price": 22,
            "Quantity": 4,
            "Weight": 0.863
        },
        {
            "Product ID": {
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            },
            "Product Name": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier &
Air Purifier with 3-in-1 Advanced Filter",
            "Price": 179.99,
            "Quantity": 5,
            "Weight": 12
        }
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        "Postcode": "M125AD",
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            "Product Name": "Harry Potter and the Philosopher's Stone",
            "Price": 7.99,
            "Quantity": 1,
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        },
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            "Product ID": {

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        "$oid": "63b5aebe10540422a4a5146c"
      },
      "Product Name": "The Handmaid's Tale",
      "Price": 9.99,
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      "Price": 9.99,
      "Quantity": 3,
      "Weight": 0.28
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      "Price": 16.99,
      "Quantity": 2,
      "Weight": 0.85
    },
    {
      "Product ID": {
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      "Product Name": "Samsung Series 4 9kg 1400 Spin Freestanding
Washing Machine",
      "Price": 456.97,
      "Quantity": 4,
      "Weight": 67
    },
    {
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      "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
      "Price": 9.99,
      "Quantity": 4,
      "Weight": 0.02
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    "Price": 450,
    "Quantity": 1,
    "Weight": 0.2
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  {
    "Product ID": {
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    },
    "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge
Freezer",
    "Price": 324.97,
    "Quantity": 3,
    "Weight": 48.2
  },
  {
    "Product ID": {
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    "Price": 7.99,
    "Quantity": 1,
    "Weight": 0.02
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  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5146a"
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    "Price": 8.99,
    "Quantity": 3,
    "Weight": 0.403
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        },
        "Product Name": "Brownie",
        "Price": 0.8,
        "Quantity": 54
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        "Quantity": 4,
        "Weight": 0.02
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        "Price": 319,
        "Quantity": 5,
        "Weight": 10.5
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        },
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        "Price": 9.99,
        "Quantity": 2,
        "Weight": 0.52
    }
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        "Postcode": "M133DT",
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                38.89037
            ]
        }
    }
}
]

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    }
  },
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      "Product Name": "The Atlas Six",
      "Price": 8.99,
      "Quantity": 2,
      "Weight": 0.403
    },
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "Product Name": "Samsung Galaxy S9",
      "Price": 600,
      "Quantity": 3,
      "Weight": 0.2
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51472"
      },
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Freezer",
      "Price": 324.97,
      "Quantity": 5,
      "Weight": 48.2
    }
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      "coordinates": [
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      ]
    }
  }
}

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        "Price": 2.5,
        "Quantity": 91
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      "City": "Manchester",
      "Postcode": "M13D33",
      "Coordinates": {
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          19.62667
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    }
  },
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      "Price": 324.97,
      "Quantity": 5,
      "Weight": 48.2
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        "Weight": 39.9
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        "Street": "Ann",
        "City": "Manchester",
        "Postcode": "M14G4Y",
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            ]
        }
    }
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        },
        "Product Name": "Michael Ball/Alfie Boe: Together in Vegas",
        "Price": 7.99,
        "Quantity": 1,
        "Weight": 0.02
    }
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  },
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      "Price": 9.99,
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      "Price": 9.99,
      "Quantity": 5,

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with 10 Year Warranty",
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        "Quantity": 3,
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        "Quantity": 1,

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    "Quantity": 4,
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    "Quantity": 3,
    "Weight": 0.28
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    "Quantity": 2,
    "Weight": 0.2
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Postcard",
      "Price": 27.99,
      "Quantity": 2,
      "Weight": 0.02
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      "Product ID": {
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      "Price": 7.99,
      "Quantity": 1,
      "Weight": 0.02
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    "Postcode": "M125AA",
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        "$oid": "63b5aebe10540422a4a5144c"
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      "Product Name": "Orange",
      "Price": 0.5,
      "Quantity": 86
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  ],
  "Shipping Cost": 0,

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    }
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      "Price": 60,
      "Quantity": 2,
      "Weight": 0.2
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    "City": "Manchester",
    "Postcode": "M11AD",
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  }
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      "Product Name": "Stone Blind",
      "Price": 18.99,
      "Quantity": 2,
      "Weight": 0.607
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  ],
  {

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    "Product ID": {
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    "Price": 499,
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    "Quantity": 39
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      "Postcode": "M11AE",
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          53.48351
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  }
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        "Price": 7.99,
        "Quantity": 3,
        "Weight": 0.02
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      "City": "Manchester",
      "Postcode": "M11AG",
      "Coordinates": {
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        "coordinates": [
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    }
  },
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      },
      "Product Name": "The Fall of Numenor: And Other Tales from the
Second Age of Middle-Earth",
      "Price": 25,
      "Quantity": 1,
      "Weight": 0.85
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      "Quantity": 4,
      "Weight": 0.2
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    "City": "Manchester",
    "Postcode": "M11AS",
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  }
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        },
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        "Price": 16.99,
        "Quantity": 3,
        "Weight": 0.85
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        "Price": 700,
        "Quantity": 3,
        "Weight": 0.2
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    "Date": {
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    "City": "Manchester",
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    "City": "Manchester",
    "Postcode": "M11AR",
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        53.48358
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  }
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      "Quantity": 1,
      "Weight": 0.28
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Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 4,
      "Weight": 81.176
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      "Product Name": "Midnights: Moonstone Blue Edition",
      "Price": 9.99,
      "Quantity": 2,
      "Weight": 0.02
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      "Product Name": "Samsung AU7100 50 Inch 4K HDR Smart TV",
      "Price": 377.97,
      "Quantity": 1,
      "Weight": 11.4
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    "Street": "New India",

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      "Price": 7.99,
      "Quantity": 2,
      "Weight": 0.02
    },
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        "$oid": "63b5aebe10540422a4a51474"
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Freestanding Washer Dryer",
      "Price": 744.97,
      "Quantity": 4,
      "Weight": 81.176
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        "Quantity": 3,
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        "Price": 179.99,
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        "Weight": 17.5
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    "Quantity": 4,
    "Weight": 11.4
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    "Quantity": 73
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      "Quantity": 2,
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      "Quantity": 1,
      "Weight": 10.5
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      "Quantity": 2,
      "Weight": 0.2
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      "Price": 600,
      "Quantity": 3,
      "Weight": 0.2
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        "Quantity": 2,
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        "Price": 9.99,
        "Quantity": 5,
        "Weight": 0.02
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    "Postcode": "M14G4Y",
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  }
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    "Product Name": "Samsung Galaxy S9",
    "Price": 600,
    "Quantity": 2,
    "Weight": 0.2
  },
  {
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      "$oid": "63b5aebe10540422a4a51453"
    },
    "Product Name": "Google Pixel 5",
    "Price": 400,
    "Quantity": 4,
    "Weight": 0.2
  }
],
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      "Product Name": "Peach",
      "Price": 0.6,
      "Quantity": 22
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    "City": "Manchester",

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      "Price": 0.6,
      "Quantity": 58
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  ],
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      "Quantity": 24
    }
  ],

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      },
      "Product Name": "Brownie",
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      "Price": 400,
      "Quantity": 5,
      "Weight": 0.2
    },
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      "Price": 9.99,
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      "Weight": 0.02
    }
  ],

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      "Price": 9.99,
      "Quantity": 2,
      "Weight": 0.28
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      "Product Name": "Peach",
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      "Quantity": 46
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        "Quantity": 5,
        "Weight": 0.02
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Washing Machine",
        "Price": 456.97,
        "Quantity": 2,
        "Weight": 67
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      "Quantity": 33
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  ],
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    "City": "Manchester",
    "Postcode": "M11AA",
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    }
  }
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  "Past Order Items": [
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    }
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        "Product Name": "Lemonade",
        "Price": 2.5,
        "Quantity": 64
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        "Product ID": {
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        "Product Name": "Lemon",
        "Price": 0.4,
        "Quantity": 1
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      "Quantity": 5,
      "Weight": 0.2
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      "Product Name": "Samsung Galaxy Note 3",
      "Price": 450,
      "Quantity": 4,
      "Weight": 0.2
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  ]
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    }
  }
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      },
      "Product Name": "Pain Au Chocolat",
      "Price": 0.5,
      "Quantity": 77
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    {
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        "$oid": "63b5aebe10540422a4a51445"
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      "Product Name": "Energy Drink",
      "Price": 1.35,
      "Quantity": 93
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    }
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      "Price": 0.6,
      "Quantity": 42
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    "Quantity": 5,
    "Weight": 0.2
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    "Price": 377.97,
    "Quantity": 3,
    "Weight": 11.4
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  {
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      "$oid": "63b5aebe10540422a4a5145b"
    },
    "Product Name": "Apple iPhone XS",
    "Price": 900,
    "Quantity": 4,
    "Weight": 0.2
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      "$oid": "63b5aebe10540422a4a51457"
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    "Quantity": 2,
    "Weight": 0.2
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    "Quantity": 2,
    "Weight": 0.02
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    },
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    "Price": 7.99,
    "Quantity": 3,
    "Weight": 0.29
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    "Quantity": 2,
    "Weight": 0.2
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  {
    "Product ID": {
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    },
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    "Price": 9.99,
    "Quantity": 5,
    "Weight": 0.02
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"Shipping Cost": 0,
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        "Price": 0.8,
        "Quantity": 1
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Freestanding Washer Dryer",
        "Price": 744.97,
        "Quantity": 1,
        "Weight": 81.176
      },
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        "Product ID": {
          "$oid": "63b5aebe10540422a4a51471"
        },
        "Product Name": "Zanussi Series 20 Electric Built Under Double
Oven",
        "Price": 499,
        "Quantity": 4,
        "Weight": 39.9
      }
    ],
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            "Weight": 0.607
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            "Product ID": {
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            "Product Name": "Samsung Series 4 9kg 1400 Spin Freestanding
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            "Price": 456.97,
            "Quantity": 5,
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            "Price": 1.3,
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        "Weight": 0.02
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        "Product Name": "There's Nothing But Space, Man!",
        "Price": 7.99,
        "Quantity": 2,
        "Weight": 0.02
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        "Price": 50,
        "Quantity": 5,
        "Weight": 0.2
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        "Quantity": 2,
        "Weight": 93.3
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Freestanding Washer Dryer",
    "Price": 744.97,
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    "Quantity": 61
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    "Quantity": 38
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      "Quantity": 1,
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        "Weight": 0.2
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    }
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        "Price": 700,
        "Quantity": 5,
        "Weight": 0.2
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        "Product Name": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier &
Air Purifier with 3-in-1 Advanced Filter",
        "Price": 179.99,
        "Quantity": 2,
        "Weight": 12
    }
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    },
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      "Product Name": "Samsung Series 4 9kg 1400 Spin Freestanding
Washing Machine",
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      "Quantity": 1,
      "Weight": 67
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      "Price": 8.99,
      "Quantity": 5,
      "Weight": 0.403
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      "Product Name": "Pain Au Chocolat",
      "Price": 0.5,
      "Quantity": 61
    },
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    "Quantity": 73
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    "Quantity": 3
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    "Postcode": "M124XZ",
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    "Postcode": "M124XZ",
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      "Weight": 0.02
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      "Product ID": {
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      "Price": 299,
      "Quantity": 5,
      "Weight": 2.6
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      "Product Name": "Samsung AU7100 50 Inch 4K HDR Smart TV",
      "Price": 377.97,
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  "Past Order Items": [
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        "$oid": "63b5aebe10540422a4a5147a"
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    "Weight": 2.6
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    "Price": 900,
    "Quantity": 5,
    "Weight": 0.2
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{
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    },
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Washing Machine",
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    "Quantity": 1,
    "Weight": 67
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    }
]

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    "Price": 1.35,
    "Quantity": 16
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"Total Cost": 25.6,
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    "City": "Manchester",
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"Past Order Items": [
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      "$oid": "63b5aebe10540422a4a51455"
    },
    "Product Name": "Samsung Galaxy S9",
    "Price": 600,
    "Quantity": 3,
    "Weight": 0.2
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],
"Shipping Cost": 20,
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  "City": "Manchester",
  "Postcode": "M145DS",
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Washing Machine",
    "Price": 456.97,
    "Quantity": 3,
    "Weight": 67
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    "Product Name": "Only the Strong Survive",
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    "Quantity": 3,
    "Weight": 0.02
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  {
    "Product ID": {
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    "Product Name": "Michael Ball/Alfie Boe: Together in Vegas",
    "Price": 7.99,
    "Quantity": 5,
    "Weight": 0.02
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  {
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    "Product Name": "Miele 14 Place Settings Fully Integrated
Dishwasher",
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    "Quantity": 4,
    "Weight": 93.3
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],
"Shipping Cost": 40,
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      "Product Name": "Lemonade",
      "Price": 2.5,
      "Quantity": 92
    }
  ],
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  "Total Cost": 230,
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    "City": "Manchester",
    "Postcode": "M14 5DT",
    "Coordinates": {

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            },
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            "Price": 9.99,
            "Quantity": 1,
            "Weight": 0.52
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                "$oid": "63b5aebe10540422a4a51456"
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            "Product Name": "Samsung Galaxy S22 Ultra",
            "Price": 1400,
            "Quantity": 4,
            "Weight": 0.2
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    "Total Cost": 5629.99,
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        "City": "Manchester",
        "Postcode": "M11AA",
        "Coordinates": {
            "type": "Point",
            "coordinates": [
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                53.48305
            ]
        }
    }
},
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            "Product ID": {
                "$oid": "63b5aebe10540422a4a51447"
            }
        }
    ]
}

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    },
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    "Price": 0.8,
    "Quantity": 18
  },
  {
    "Product ID": {
      "$oid": "63b5aebel10540422a4a51448"
    },
    "Product Name": "Orange Juice",
    "Price": 2.1,
    "Quantity": 80
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  {
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    "Product Name": "Energy Drink",
    "Price": 1.35,
    "Quantity": 1
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},
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    },
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    "Price": 600,
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  },
  {
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    },
    "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
    "Price": 9.99,
    "Quantity": 1,
    "Weight": 0.02
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51456"
    },
    "Product Name": "Samsung Galaxy S22 Ultra",
    "Price": 1400,
    "Quantity": 3,
    "Weight": 0.2
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],
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    "City": "Manchester",
    "Postcode": "M11AE",
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      "coordinates": [
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        53.48351
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    }
  }
},
"Past Order Items": [
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    },
    "Product Name": "Samsung Galaxy S22 Ultra",
    "Price": 1400,
    "Quantity": 5,
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    },
    "Shipping Cost": 20,
    "Total Cost": 7020,
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        "City": "Manchester",
        "Postcode": "M11AE",
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    },
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            "Product ID": {
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            },
            "Product Name": "The Astronaut: Version 01 (hmv Exclusive) Includes Postcard",
            "Price": 27.99,
            "Quantity": 3,
            "Weight": 0.02
        }
    ],
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    "Customer ID": {
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    "Shipping Address": {
        "HouseNum": 53,

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      },
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      "Price": 2.1,
      "Quantity": 62
    },
    {
      "Product ID": {
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      },
      "Product Name": "Passionfruit",
      "Price": 0.7,
      "Quantity": 49
    }
  ],
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    "Postcode": "M11AQ",
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      "coordinates": [
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    }
  }
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    "Price": 0.32,
    "Quantity": 52
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    "Street": "Zindrive",
    "City": "Manchester",
    "Postcode": "M11AQ",
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        53.48312
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    }
  }
},
"Past Order Items": [
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    "Price": 0.8,
    "Quantity": 4
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"Shipping Cost": 4,
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  "Customer ID": {
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  },
  "Shipping Address": {
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    "Street": "Maplewood Gardens",
    "City": "Manchester",
    "Postcode": "M11AS",
    "Coordinates": {
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      "coordinates": [
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        53.48305
      ]
    }
  },
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      "Product ID": {
        "$oid": "63b5aebe10540422a4a5145c"
      },
      "Product Name": "Samsung Galaxy Note 3",
      "Price": 450,
      "Quantity": 5,
      "Weight": 0.2
    }
  ],
  "Shipping Cost": 20,
  "Total Cost": 2270,
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  }
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    "City": "Manchester",
    "Postcode": "M11AS",
    "Coordinates": {
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      "coordinates": [
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        53.48305
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    }
  }
}
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    ]
  }
},
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      "$oid": "63b5aebe10540422a4a5145d"
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    "Product Name": "There's Nothing But Space, Man!",
    "Price": 7.99,
    "Quantity": 4,
    "Weight": 0.02
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}
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    "City": "Manchester",
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        53.48305
      ]
    }
  }
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    "Price": 1200,
    "Quantity": 2,
    "Weight": 0.2
  },
  {
    "Product ID": {
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    },
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Oven",
    "Price": 499,

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    "Quantity": 4,
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  {
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    "Price": 7.99,
    "Quantity": 2,
    "Weight": 0.29
  },
  {
    "Product ID": {
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Dishwasher",
    "Price": 999.97,
    "Quantity": 3,
    "Weight": 93.3
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    "Street": "New India",
    "City": "Manchester",
    "Postcode": "M11AR",
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        53.48358
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  }
},
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    "Product ID": {
      "$oid": "63b5aebe10540422a4a5146d"
    },
    "Product Name": "Fire and Blood - A Song of Ice and Fire",
    "Price": 9.99,
    "Quantity": 2,

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    "Weight": 0.52
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  {
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    },
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    "Price": 9.99,
    "Quantity": 5,
    "Weight": 0.02
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5145d"
    },
    "Product Name": "There's Nothing But Space, Man!",
    "Price": 7.99,
    "Quantity": 2,
    "Weight": 0.02
  }
],
"Shipping Cost": 0,
"Total Cost": 85.91,
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  }
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  "Customer ID": {
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  },
  "Shipping Address": {
    "HouseNum": 34,
    "Street": "New India",
    "City": "Manchester",
    "Postcode": "M11AR",
    "Coordinates": {
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      "coordinates": [
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        53.48358
      ]
    }
  },
  "Past Order Items": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51447"
      },
      "Product Name": "Muffin",
      "Price": 0.8,
      "Quantity": 83
    }
  ]
},
],

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    },
    "Customer ID": {
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    },
    "Shipping Address": {
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      "Street": "Kangaroo Drive",
      "City": "Manchester",
      "Postcode": "M111NQ",
      "Coordinates": {
        "type": "Point",
        "coordinates": [
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          53.47479
        ]
      }
    },
    "Past Order Items": [
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51474"
        },
        "Product Name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm
Freestanding Washer Dryer",
        "Price": 744.97,
        "Quantity": 5,
        "Weight": 81.176
      }
    ],
    "Shipping Cost": 20,
    "Total Cost": 3744.85,
    "Date": {
      "$date": {
        "$numberLong": "1580559721000"
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    }
  }, {
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    },
    "Customer ID": {
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    },
    "Shipping Address": {
      "HouseNum": 117,

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"Street": "Kappaloom",
"City": "Manchester",
"Postcode": "M111NR",
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  ]
},
},
"Past Order Items": [
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    },
    "Product Name": "Stone Blind",
    "Price": 18.99,
    "Quantity": 5,
    "Weight": 0.607
  },
  {
    "Product ID": {
      "$oid": "63b5aeb10540422a4a5145f"
    },
    "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
    "Price": 9.99,
    "Quantity": 2,
    "Weight": 0.02
  }
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"Shipping Cost": 5,
"Total Cost": 119.93,
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    "City": "Manchester",
    "Postcode": "M111NR",
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        53.46961
      ]
    }
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},
},
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"Past Order Items": [
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    "Price": 377.97,
    "Quantity": 4,
    "Weight": 11.4
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    "Price": 11.99,
    "Quantity": 4,
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      "Quantity": 1,
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        "Price": 377.97,
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            "Quantity": 1,
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            "Quantity": 3,
            "Weight": 0.223
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      "Quantity": 48
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    "Postcode": "M124WJ",
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        53.46034
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        "Price": 7.99,
        "Quantity": 1,
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Freestanding Washer Dryer",
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        "Weight": 81.176
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    "Quantity": 4,
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    "Price": 18.99,
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  }
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    "Price": 7.99,
    "Quantity": 4,
    "Weight": 0.02
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    "Quantity": 2,
    "Weight": 0.2
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      "Quantity": 5,
      "Weight": 0.2
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Second Age of Middle-Earth",
      "Price": 25,
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      "Weight": 0.85
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      "Product ID": {
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      "Price": 299,
      "Quantity": 4,
      "Weight": 2.6
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  }
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      "Price": 11.99,
      "Quantity": 3,
      "Weight": 0.02
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    }
  },
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      "Product Name": "DeLonghi Dragon 4 2.5kW Oil Filled Radiator 10 Fin
with 10 Year Warranty",
      "Price": 179.99,
      "Quantity": 3,
      "Weight": 17.5
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    {
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        "$oid": "63b5aebe10540422a4a5145d"
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      "Product Name": "There's Nothing But Space, Man!",
      "Price": 7.99,
      "Quantity": 4,
      "Weight": 0.02
    }
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    "Postcode": "M125AD",

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      "Quantity": 5,
      "Weight": 0.607
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      "Price": 600,
      "Quantity": 3,
      "Weight": 0.2
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            "Price": 900,
            "Quantity": 5,
            "Weight": 0.2
        },
        {
            "Product ID": {
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    "Price": 9.99,
    "Quantity": 3,
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    "Quantity": 2,
    "Weight": 0.2
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    "City": "Manchester",
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    "Price": 8.99,
    "Quantity": 5,
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Freezer",
            "Price": 324.97,
            "Quantity": 1,
            "Weight": 48.2
        }
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}
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        "Price": 7.99,
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  },
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    "Product Rating": 2
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    },
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51479"
    },
    "Product Rating": 5
  }, {
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    "Product Rating": 1
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    "Product Rating": 1
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    },
    "Customer ID": {
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```

```

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    },
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    },
    "Product ID": {
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    "Product Rating": 5
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    },
    "Customer ID": {
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    },
    "Product ID": {
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    },
    "Product Rating": 2
  }, {
    "_id": {
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    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595987"
    },
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5147a"
    },
    "Product Rating": 2
  }
}]

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# RECOMMENDED PRODUCTS JSON

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  "Customer ID": {
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  },
  "Products": [
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "name": "Samsung Galaxy S9",
      "price": 600,
      "average rating": 2.86
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51456"
      },
      "name": "Samsung Galaxy S22 Ultra",
      "price": 1400,
      "average rating": 2.86
    }
  ]
}, {
  "_id": {
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  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595984"
  },
  "Products": [
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51471"
      },
      "name": "Zanussi Series 20 Electric Built Under Double Oven",
      "price": 499,
      "average rating": 2.83
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51472"
      },
      "name": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer",
      "price": 324.97,
      "average rating": 2.83
    }
  ]
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  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595985"
  },
}
```

```

"Products": [
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    },
    "name": "Samsung Galaxy S9",
    "price": 600,
    "average rating": 2.86
  },
  {
    "product id": {
      "$oid": "63b5aebe10540422a4a51456"
    },
    "name": "Samsung Galaxy S22 Ultra",
    "price": 1400,
    "average rating": 2.86
  }
]
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  "Customer ID": {
    "$oid": "63b8707d066488245e595986"
  },
  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a51453"
      },
      "name": "Google Pixel 5",
      "price": 400,
      "average rating": 3.2
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "name": "Samsung Galaxy S9",
      "price": 600,
      "average rating": 3.2
    }
  ]
},{
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  },
  "Customer ID": {
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  },
  "Products": [
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        "$oid": "63b5aebe10540422a4a51454"
      },
      "name": "Nokia N95",
      "price": 50,
      "average rating": 2.33
    }
  ]
}

```

```

    },
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      "product id": {
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      "name": "Apple iPhone XS",
      "price": 900,
      "average rating": 2.33
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  },
  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a51444"
      },
      "name": "Croissant",
      "price": 0.6,
      "average rating": 4
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51447"
      },
      "name": "Muffin",
      "price": 0.8,
      "average rating": 4
    }
  ]
}, {
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  },
  "Customer ID": {
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  },
  "Products": [
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a5145d"
      },
      "name": "There's Nothing But Space, Man!",
      "price": 7.99,
      "average rating": 2.67
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51464"
      },
      "name": "Harry's House",
      "price": 11.99,
      "average rating": 2.67
    }
  ]
}

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    }
  ]
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  "_id": {
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  "Customer ID": {
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  },
  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a51453"
      },
      "name": "Google Pixel 5",
      "price": 400,
      "average rating": 3.2
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "name": "Samsung Galaxy S9",
      "price": 600,
      "average rating": 3.2
    }
  ]
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  "Customer ID": {
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  },
  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a51473"
      },
      "name": "Samsung Series 4 9kg 1400 Spin Freestanding Washing
Machine",
      "price": 456.97,
      "average rating": 3
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51474"
      },
      "name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm Freestanding
Washer Dryer",
      "price": 744.97,
      "average rating": 3
    }
  ]
}, {
  "_id": {
    "$oid": "63bd9f1941cabbcd0f089bb0"
  },

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"Products": [
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    "product id": {
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    },
    "name": "Stone Blind",
    "price": 18.99,
    "average rating": 3.86
  },
  {
    "product id": {
      "$oid": "63b5aebe10540422a4a5146a"
    },
    "name": "The Atlas Six",
    "price": 8.99,
    "average rating": 3.86
  }
]
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  "_id": {
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  },
  "Products": [
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        "$oid": "63b5aebe10540422a4a51455"
      },
      "name": "Samsung Galaxy S9",
      "price": 600,
      "average rating": 2.86
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51456"
      },
      "name": "Samsung Galaxy S22 Ultra",
      "price": 1400,
      "average rating": 2.86
    }
  ]
},{
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  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a5144d"
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        "name": "Pain Au Chocolat",
        "price": 0.5,
        "average rating": 3
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    {
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        "name": "Cola",
        "price": 1.3,
        "average rating": 3
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    "Products": [
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            "product id": {
                "$oid": "63b5aebe10540422a4a5145d"
            },
            "name": "There's Nothing But Space, Man!",
            "price": 7.99,
            "average rating": 2.67
        },
        {
            "product id": {
                "$oid": "63b5aebe10540422a4a5145e"
            },
            "name": "NOW That's What I Call a Massive 80s Party",
            "price": 7.99,
            "average rating": 2.67
        }
    ]
}, {
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            "product id": {
                "$oid": "63b5aebe10540422a4a51444"
            },
            "name": "Croissant",
            "price": 0.6,
            "average rating": 4
        },
        {
            "product id": {
                "$oid": "63b5aebe10540422a4a51447"
            },

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        "name": "Muffin",
        "price": 0.8,
        "average rating": 4
    }
]
}, {
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            },
            "name": "Stone Blind",
            "price": 18.99,
            "average rating": 3.86
        },
        {
            "product id": {
                "$oid": "63b5aebel0540422a4a5146a"
            },
            "name": "The Atlas Six",
            "price": 8.99,
            "average rating": 3.86
        }
    ]
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    "Customer ID": {
        "$oid": "63b8707d066488245e595992"
    },
    "Products": [
        {
            "product id": {
                "$oid": "63b5aebel0540422a4a51471"
            },
            "name": "Zanussi Series 20 Electric Built Under Double Oven",
            "price": 499,
            "average rating": 2.83
        },
        {
            "product id": {
                "$oid": "63b5aebel0540422a4a51472"
            },
            "name": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer",
            "price": 324.97,
            "average rating": 2.83
        }
    ]
}, {
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          "$oid": "63b5aebe10540422a4a51453"
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        "price": 400,
        "average rating": 3.2
      },
      {
        "product id": {
          "$oid": "63b5aebe10540422a4a51455"
        },
        "name": "Samsung Galaxy S9",
        "price": 600,
        "average rating": 3.2
      }
    ]
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    "Products": [
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          "$oid": "63b5aebe10540422a4a51453"
        },
        "name": "Google Pixel 5",
        "price": 400,
        "average rating": 3.2
      },
      {
        "product id": {
          "$oid": "63b5aebe10540422a4a51455"
        },
        "name": "Samsung Galaxy S9",
        "price": 600,
        "average rating": 3.2
      }
    ]
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    "Customer ID": {
      "$oid": "63b8707d066488245e595995"
    },
    "Products": [
      {
        "product id": {
          "$oid": "63b5aebe10540422a4a51471"

```



```

    },
    "name": "Zanussi Series 20 Electric Built Under Double Oven",
    "price": 499,
    "average rating": 2.83
  },
  {
    "product id": {
      "$oid": "63b5aebe10540422a4a51472"
    },
    "name": "Indesit 235 Litre 50/50 Freestanding Fridge Freezer",
    "price": 324.97,
    "average rating": 2.83
  }
]
},{
  "_id": {
    "$oid": "63bd9f1b41cabbcd0f089bba"
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  "Customer ID": {
    "$oid": "63b8707d066488245e595996"
  },
  "Products": [
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      "product id": {
        "$oid": "63b5aebe10540422a4a51453"
      },
      "name": "Google Pixel 5",
      "price": 400,
      "average rating": 3.2
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "name": "Samsung Galaxy S9",
      "price": 600,
      "average rating": 3.2
    }
  ]
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  "_id": {
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  },
  "Customer ID": {
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  },
  "Products": [
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51453"
      },
      "name": "Google Pixel 5",
      "price": 400,
      "average rating": 3.2
    },
    {
      "product id": {
        "$oid": "63b5aebe10540422a4a51455"
      },

```

```
    },  
    "name": "Samsung Galaxy S9",  
    "price": 600,  
    "average rating": 3.2  
  }  
]  
}]
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## SHOPPING BASKET JSON

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  "Customer ID": {
    "$oid": "63b8707d066488245e595986"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144a"
      },
      "Product Name": "Bread Loaf",
      "Price": 1.2,
      "Quantity": 82
    }
  ],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51478"
      },
      "Product Name": "DeLonghi Dragon 4 2.5kW Oil Filled Radiator 10 Fin
with 10 Year Warranty",
      "Price": 179.99,
      "Quantity": 2,
      "Weight": 17.5
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5146e"
      },
      "Product Name": "Harry Potter and the Philosopher's Stone",
      "Price": 7.99,
      "Quantity": 2,
      "Weight": 0.29
    }
  ],
  "Fresh Items Cost": 98.4,
  "Other Items Cost": 375.96,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 20,
  "Total Cost": 494.36
},{
  "_id": {
    "$oid": "63be2d660fe4d12f91b33628"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e59598b"
  },
  "Basket Items Fresh": [],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51469"
      },
      "Product Name": "Stone Blind",

```

```

    "Price": 18.99,
    "Quantity": 4,
    "Weight": 0.607
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51462"
    },
    "Product Name": "Michael Ball/Alfie Boe: Together in Vegas",
    "Price": 7.99,
    "Quantity": 1,
    "Weight": 0.02
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51479"
    },
    "Product Name": "KitchenAid Classic 4.3L Stand Mixer",
    "Price": 319,
    "Quantity": 2,
    "Weight": 10.5
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],
"Fresh Items Cost": 0,
"Other Items Cost": 721.95,
"Shipping Cost Fresh": 0,
"Shipping Cost Other": 20,
"Total Cost": 741.95
}, {
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  "Customer ID": {
    "$oid": "63b8707d066488245e595988"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51452"
      },
      "Product Name": "Peach",
      "Price": 0.6,
      "Quantity": 53
    }
  ],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5145f"
      },
      "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
      "Price": 9.99,
      "Quantity": 1,
      "Weight": 0.02
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51474"
      },

```

```

    },
    "Product Name": "Bosch Series 6 9kg Wash 6kg Dry 1400rpm
Freestanding Washer Dryer",
    "Price": 744.97,
    "Quantity": 3,
    "Weight": 81.176
  },
  {
    "Product ID": {
      "$oid": "63b5aebel10540422a4a51471"
    },
    "Product Name": "Zanussi Series 20 Electric Built Under Double
Oven",
    "Price": 499,
    "Quantity": 2,
    "Weight": 39.9
  },
  {
    "Product ID": {
      "$oid": "63b5aebel10540422a4a5146a"
    },
    "Product Name": "The Atlas Six",
    "Price": 8.99,
    "Quantity": 4,
    "Weight": 0.403
  }
],
"Fresh Items Cost": 31.8,
"Other Items Cost": 3278.86,
"Shipping Cost Fresh": 4,
"Shipping Cost Other": 40,
"Total Cost": 3354.66
},{
  "_id": {
    "$oid": "63be2d660fe4d12f91b3362b"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e59598e"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebel10540422a4a5144c"
      },
      "Product Name": "Orange",
      "Price": 0.5,
      "Quantity": 43
    }
  ],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebel10540422a4a51459"
      },
      "Product Name": "Sony Xperia XZ",
      "Price": 60,
      "Quantity": 2,
      "Weight": 0.2
    }
  ]
}

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    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5145c"
      },
      "Product Name": "Samsung Galaxy Note 3",
      "Price": 450,
      "Quantity": 5,
      "Weight": 0.2
    }
  ],
  "Fresh Items Cost": 21.5,
  "Other Items Cost": 2370,
  "Shipping Cost Fresh": 4,
  "Shipping Cost Other": 20,
  "Total Cost": 2415.5
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b3362f"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595992"
  },
  "Basket Items Fresh": [],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5145b"
      },
      "Product Name": "Apple iPhone XS",
      "Price": 900,
      "Quantity": 4,
      "Weight": 0.2
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51455"
      },
      "Product Name": "Samsung Galaxy S9",
      "Price": 600,
      "Quantity": 3,
      "Weight": 0.2
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51477"
      },
      "Product Name": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier &
Air Purifier with 3-in-1 Advanced Filter",
      "Price": 179.99,
      "Quantity": 3,
      "Weight": 12
    }
  ],
  "Fresh Items Cost": 0,
  "Other Items Cost": 5939.97,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 60,

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    "Total Cost": 5999.97
  }, {
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    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595983"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51459"
        },
        "Product Name": "Sony Xperia XZ",
        "Price": 60,
        "Quantity": 2,
        "Weight": 0.2
      },
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a5145a"
        },
        "Product Name": "Google Pixel 7 Pro",
        "Price": 700,
        "Quantity": 4,
        "Weight": 0.2
      }
    ],
    "Fresh Items Cost": 0,
    "Other Items Cost": 2920,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 20,
    "Total Cost": 2940
  }, {
    "_id": {
      "$oid": "63be2d660fe4d12f91b33621"
    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595984"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a5146c"
        },
        "Product Name": "The Handmaid's Tale",
        "Price": 9.99,
        "Quantity": 3,
        "Weight": 0.223
      },
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51471"
        },
        "Product Name": "Zanussi Series 20 Electric Built Under Double
Oven",

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        "Price": 499,
        "Quantity": 1,
        "Weight": 39.9
    }
],
    "Fresh Items Cost": 0,
    "Other Items Cost": 528.97,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 20,
    "Total Cost": 548.97
}, {
    "_id": {
        "$oid": "63be2d660fe4d12f91b33629"
    },
    "Customer ID": {
        "$oid": "63b8707d066488245e59598c"
    },
    "Basket Items Fresh": [
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a51447"
            },
            "Product Name": "Muffin",
            "Price": 0.8,
            "Quantity": 27
        },
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a5144b"
            },
            "Product Name": "Lemonade",
            "Price": 2.5,
            "Quantity": 26
        }
    ],
    "Basket Items Other": [
        {
            "Product ID": {
                "$oid": "63b5aebe10540422a4a51475"
            },
            "Product Name": "Miele 14 Place Settings Fully Integrated
Dishwasher",
            "Price": 999.97,
            "Quantity": 2,
            "Weight": 93.3
        }
    ],
    "Fresh Items Cost": 86.6,
    "Other Items Cost": 1999.94,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 20,
    "Total Cost": 2106.54
}, {
    "_id": {
        "$oid": "63be2d660fe4d12f91b33631"
    },
    "Customer ID": {
        "$oid": "63b8707d066488245e595994"
    },

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},
"Basket Items Fresh": [],
"Basket Items Other": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51455"
    },
    "Product Name": "Samsung Galaxy S9",
    "Price": 600,
    "Quantity": 4,
    "Weight": 0.2
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5146c"
    },
    "Product Name": "The Handmaid's Tale",
    "Price": 9.99,
    "Quantity": 1,
    "Weight": 0.223
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],
"Fresh Items Cost": 0,
"Other Items Cost": 2409.99,
"Shipping Cost Fresh": 0,
"Shipping Cost Other": 20,
"Total Cost": 2429.99
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b33622"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595985"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51450"
      },
      "Product Name": "Brownie",
      "Price": 0.8,
      "Quantity": 34
    },
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51452"
      },
      "Product Name": "Peach",
      "Price": 0.6,
      "Quantity": 87
    }
  ],
  "Basket Items Other": [],
  "Fresh Items Cost": 79.4,
  "Other Items Cost": 0,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 0,
  "Total Cost": 79.4
}

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}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b33624"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595987"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51451"
      },
      "Product Name": "Bottled Water",
      "Price": 1.1,
      "Quantity": 74
    }
  ],
  "Basket Items Other": [],
  "Fresh Items Cost": 81.4,
  "Other Items Cost": 0,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 0,
  "Total Cost": 81.4
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b33626"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595989"
  },
  "Basket Items Fresh": [],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51457"
      },
      "Product Name": "Apple iPhone 13",
      "Price": 1200,
      "Quantity": 2,
      "Weight": 0.2
    }
  ],
  "Fresh Items Cost": 0,
  "Other Items Cost": 2400,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 20,
  "Total Cost": 2420
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b33627"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e59598a"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51448"
      }
    }
  ]
}

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    },
    "Product Name": "Orange Juice",
    "Price": 2.1,
    "Quantity": 41
  }
],
"Basket Items Other": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51460"
    },
    "Product Name": "NOW That's What I Call Music! 113",
    "Price": 11.99,
    "Quantity": 1,
    "Weight": 0.02
  }
],
"Fresh Items Cost": 86.1,
"Other Items Cost": 11.99,
"Shipping Cost Fresh": 0,
"Shipping Cost Other": 0,
"Total Cost": 98.09
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b3362a"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e59598d"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a5144a"
      },
      "Product Name": "Bread Loaf",
      "Price": 1.2,
      "Quantity": 81
    }
  ],
  "Basket Items Other": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51469"
      },
      "Product Name": "Stone Blind",
      "Price": 18.99,
      "Quantity": 1,
      "Weight": 0.607
    }
  ],
  "Fresh Items Cost": 97.2,
  "Other Items Cost": 18.99,
  "Shipping Cost Fresh": 0,
  "Shipping Cost Other": 0,
  "Total Cost": 116.19
}, {
  "_id": {
    "$oid": "63be2d660fe4d12f91b3362c"
  },

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    },
    "Customer ID": {
      "$oid": "63b8707d066488245e59598f"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
      {
        "Product ID": {
          "$oid": "63b5aebel10540422a4a51460"
        },
        "Product Name": "NOW That's What I Call Music! 113",
        "Price": 11.99,
        "Quantity": 3,
        "Weight": 0.02
      }
    ],
    "Fresh Items Cost": 0,
    "Other Items Cost": 35.97,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 0,
    "Total Cost": 35.97
  }, {
    "_id": {
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    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595990"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
      {
        "Product ID": {
          "$oid": "63b5aebel10540422a4a5145f"
        },
        "Product Name": "NOW Yearbook 1980-1984: The Final Chapter",
        "Price": 9.99,
        "Quantity": 2,
        "Weight": 0.02
      },
      {
        "Product ID": {
          "$oid": "63b5aebel10540422a4a51479"
        },
        "Product Name": "KitchenAid Classic 4.3L Stand Mixer",
        "Price": 319,
        "Quantity": 1,
        "Weight": 10.5
      }
    ],
    "Fresh Items Cost": 0,
    "Other Items Cost": 338.98,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 20,
    "Total Cost": 358.98
  }, {
    "_id": {
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    },

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"Customer ID": {
  "$oid": "63b8707d066488245e595991"
},
"Basket Items Fresh": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5144c"
    },
    "Product Name": "Orange",
    "Price": 0.5,
    "Quantity": 67
  }
],
"Basket Items Other": [
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a5147a"
    },
    "Product Name": "Dyson V8 Absolute Cordless Stick Vacuum Cleaner",
    "Price": 299,
    "Quantity": 3,
    "Weight": 2.6
  },
  {
    "Product ID": {
      "$oid": "63b5aebe10540422a4a51468"
    },
    "Product Name": "Fairy Tale",
    "Price": 22,
    "Quantity": 1,
    "Weight": 0.863
  }
],
"Fresh Items Cost": 33.5,
"Other Items Cost": 919,
"Shipping Cost Fresh": 4,
"Shipping Cost Other": 20,
"Total Cost": 976.5
},{
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    "$oid": "63be2d660fe4d12f91b33630"
  },
  "Customer ID": {
    "$oid": "63b8707d066488245e595993"
  },
  "Basket Items Fresh": [
    {
      "Product ID": {
        "$oid": "63b5aebe10540422a4a51451"
      },
      "Product Name": "Bottled Water",
      "Price": 1.1,
      "Quantity": 32
    }
  ],
  "Basket Items Other": [],
  "Fresh Items Cost": 35.2,
  "Other Items Cost": 0,
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    "Shipping Cost Fresh": 4,
    "Shipping Cost Other": 0,
    "Total Cost": 39.2
  }, {
    "_id": {
      "$oid": "63be2d660fe4d12f91b33632"
    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595995"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51472"
        },
        "Product Name": "Indesit 235 Litre 50/50 Freestanding Fridge
Freezer",
        "Price": 324.97,
        "Quantity": 1,
        "Weight": 48.2
      },
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51465"
        },
        "Product Name": "Midnights: Moonstone Blue Edition",
        "Price": 9.99,
        "Quantity": 5,
        "Weight": 0.02
      },
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51454"
        },
        "Product Name": "Nokia N95",
        "Price": 50,
        "Quantity": 4,
        "Weight": 0.2
      }
    ],
    "Fresh Items Cost": 0,
    "Other Items Cost": 574.92,
    "Shipping Cost Fresh": 0,
    "Shipping Cost Other": 20,
    "Total Cost": 594.92
  }, {
    "_id": {
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    },
    "Customer ID": {
      "$oid": "63b8707d066488245e595996"
    },
    "Basket Items Fresh": [
      {
        "Product ID": {
          "$oid": "63b5aebe10540422a4a51444"
        },

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        "Product Name": "Croissant",
        "Price": 0.6,
        "Quantity": 33
    }
],
"Basket Items Other": [],
"Fresh Items Cost": 19.8,
"Other Items Cost": 0,
"Shipping Cost Fresh": 4,
"Shipping Cost Other": 0,
"Total Cost": 23.8
}, {
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        "$oid": "63be2d660fe4d12f91b33634"
    },
    "Customer ID": {
        "$oid": "63b8707d066488245e595997"
    },
    "Basket Items Fresh": [],
    "Basket Items Other": [
        {
            "Product ID": {
                "$oid": "63b5aebel10540422a4a51458"
            },
            "Product Name": "OnePlus Nord",
            "Price": 300,
            "Quantity": 1,
            "Weight": 0.2
        },
        {
            "Product ID": {
                "$oid": "63b5aebel10540422a4a5145e"
            },
            "Product Name": "NOW That's What I Call a Massive 80s Party",
            "Price": 7.99,
            "Quantity": 5,
            "Weight": 0.02
        },
        {
            "Product ID": {
                "$oid": "63b5aebel10540422a4a5146f"
            },
            "Product Name": "The Fall of Numenor: And Other Tales from the
Second Age of Middle-Earth",
            "Price": 25,
            "Quantity": 1,
            "Weight": 0.85
        },
        {
            "Product ID": {
                "$oid": "63b5aebel10540422a4a51477"
            },
            "Product Name": "Argo 12 Litre Quiet Anti-Bacterial Dehumidifier &
Air Purifier with 3-in-1 Advanced Filter",
            "Price": 179.99,
            "Quantity": 5,
            "Weight": 12
        }
    ]
}

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],  
  "Fresh Items Cost": 0,  
  "Other Items Cost": 1264.9,  
  "Shipping Cost Fresh": 0,  
  "Shipping Cost Other": 25,  
  "Total Cost": 1289.9  
}]
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