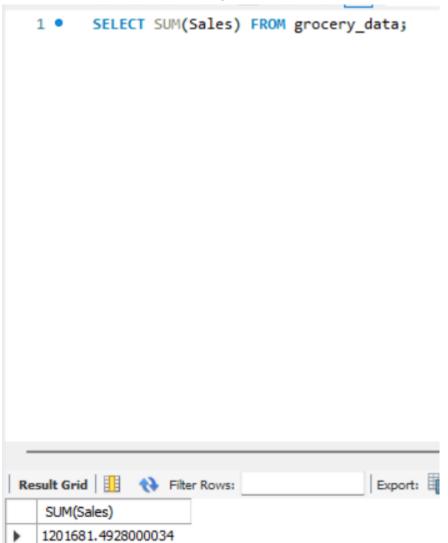
Business Requirement

To conduct a comprehensive analysis of grocery sales data, customer satisfaction, and inventory distribution to identify key insights and opportunities for optimization using various KPIs and visualisations in Power BI.

KPI's Requirements

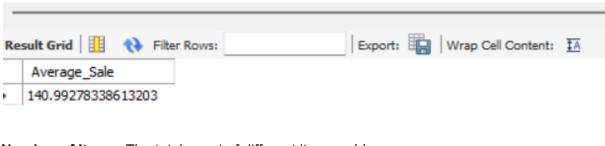
Total Sales: The overall revenue generated from all items sold



Average Sales: The average revenue per sale

b

7 • SELECT AVG(Sales) AS Average_Sale FROM grocery_data;



Number of Items: The total count of different items sold

```
1 • SELECT COUNT(*) as Items_Sold_Count
2 FROM grocery_data;
```



Average Rating: The average customer rating for items sold.

```
17 • SELECT AVG(Rating) AS Average_Customer_Rating
18 FROM grocery_data;

Lesult Grid  Filter Rows: Export: Wrap Cel

Average_Customer_Rating
3.9566
```

Charts Requirements

Total % Sales by Fat Content (Donut chart)

```
1 • SELECT Item_Fat_Content, CAST(SUM(Sales) AS DECIMAL(10,2)) as total_sales,
2    CAST(SUM(Sales) * 100 / (SELECT SUM(Sales) from grocery_data) AS DECIMAL(10,2)) AS Percentage
3    FROM grocery_data
4    GROUP BY Item_Fat_Content;
5
```



Total Sales by Item Type (Bar Chart)

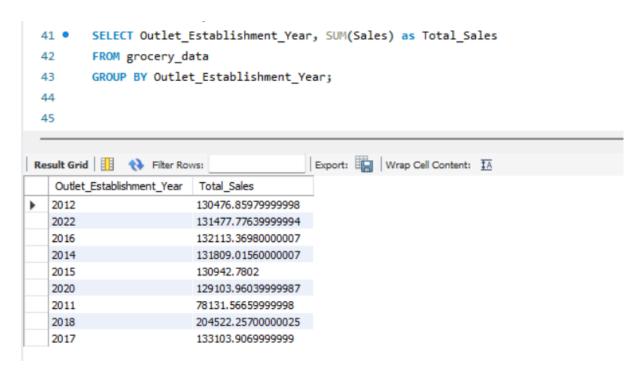
```
SELECT Item_Type, SUM(Sales) as Total_Sales
FROM grocery_data
GROUP BY Item_Type;
31
```

Re	esult Grid 🔠 🙌 Fi		Export:	Wrap Cel
	Item_Type	Total_Sales		
•	Fruits and Vegetables	178124.08099999995		
	Health and Hygiene	68025.83880000001		
	Frozen Foods	118558.88140000009		
	Canned	90706.72899999999		
	Soft Drinks	58514.16699999999		
	Household	135976.52539999998		
	Snack Foods	175433.9224000002		
	Meat	59449.86379999999		
	Breads	35379.119800000015		
	Hard Drinks	29334.680599999996		
	Others	22451.8916		
	Dairy	101276.46159999995		
	Breakfast	15596.696600000001		
	Baking Goods	81894.73640000001		
	Seafood	9077.86999999999		
	Starchy Foods	21880.02739999999		

Fat Content by Outlet for Total Sales (Column Chart)

```
33 •
        SELECT Item Fat Content,
        Outlet_Location_Type,
34
        SUM(Sales) As Total Sales
35
        FROM grocery data
36
        GROUP BY Item Fat Content,
37
38
        Outlet Location Type
        ORDER BY Outlet Location Type ASC;
39
40
                                             Export: Wrap Ce
esult Grid
             Filter Rows:
  Item_Fat_Content
                  Outlet_Location_Type
                                        Total Sales
 Regular
                                       121349.89940000001
                   Tier 1
 Low Fat
                   Tier 1
                                       215047.9126000001
 Low Fat
                   Tier 2
                                       254464.77940000014
 Regular
                                       138685.86819999994
                   Tier 2
 Low Fat
                   Tier 3
                                       306806.9964000001
 Regular
                   Tier 3
                                       165326.0368
```

Total Sales by Outlet Establishment (Line Chart)



Total Sales By Outlet Size - Donut chart

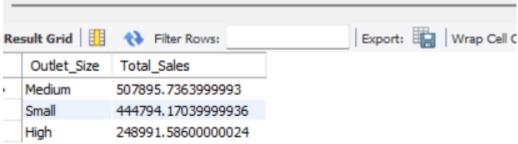
```
-- Total Sales By Outlet Size

SELECT Outlet_Size, SUM(Sales) as Total_Sales

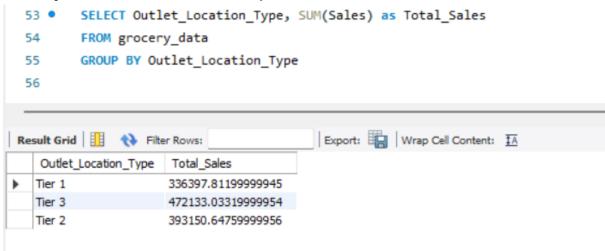
FROM grocery_data

GROUP BY Outlet_Size;

S1
```



Sales By Outlet Location - Funnel Map



All Metrics By Outlet Type - Matrix Card

```
58 • SELECT Outlet_Type, SUM(Sales) AS Total_Sales,
       AVG(Sales) AS Average_Sales,
  59
         AVG(Rating) AS Average_Rating,
  60
      COUNT(*) AS Total_Items_Sold
  61
       FROM grocery_data
  62
  63
       GROUP BY Outlet_Type;
                                        Export: Wrap Cell Content: TA
Outlet_Type
                   Total_Sales
                                    Average_Sales
                                                      Average_Rating Total_Items_Sold
  Supermarket Type 1 787549.8928000013
                                    141.21389506903375 3.9546
                                                                   5577
   Supermarket Type 2 131477.77639999994 141.6786383620689 3.9547
                                                                   928
   Grocery Store
                   151939.149
                                    140.29468975069253 3.9751
                                                                   1083
   Supermarket Type3 130714.67460000006 139.80179101604284 3.9487
                                                                   935
```