Blinkit Analysis

• See all the data imported:

```
SELECT * FROM blinkit;
```

• DATA CLEANING:

Cleaning the Item_Fat_Content field ensures data consistency and accuracy in analysis. The presence of multiple variations of the same category (e.g., LF, low fat vs. Low Fat) can cause issues in reporting, aggregations, and filtering. By standardizing these values, we improve data quality, making it easier to generate insights and maintain uniformity in our datasets.

After executing this query check the data has been cleaned or not using below query

```
SELECT DISTINCT Item_Fat_Content FROM blinkit;
```

```
ltem_Fat_Content

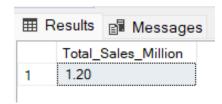
1 Low Fat

2 Regular
```

A. KPI's

1. TOTAL SALES:

```
SELECT CAST(SUM(Total_Sales) / 1000000.0 AS DECIMAL(10,2)) AS
Total_Sales_Million
FROM blinkit;
```



2. AVERAGE SALES

```
SELECT CAST(AVG(Total_Sales) AS INT) AS Avg_Sales
FROM blinkit;

Results Messages

Avg_Sales
1 140
```

3. NO OF ITEMS

```
SELECT COUNT(*) AS No_of_Orders
FROM blinkit;
```



4. AVG RATING

```
SELECT CAST(AVG(Rating) AS DECIMAL(10,1)) AS Avg_Rating
FROM blinkit;
```



B. Total Sales by Fat Content:

SELECT Item_Fat_Content, CAST(SUM(Total_Sales) AS DECIMAL(10,2)) AS
Total_Sales
FROM blinkit
GROUP BY Item_Fat_Content



C. Total Sales by Item Type

SELECT Item_Type, CAST(SUM(Total_Sales) AS DECIMAL(10,2)) AS Total_Sales
FROM blinkit
GROUP BY Item_Type
ORDER BY Total_Sales DESC

Ⅲ	Results 📳 Messages		
	Item_Type	Total_Sales	
1	Fruits and Vegetables	178124.08	
2	Snack Foods	175433.92	
3	Household	135976.53	
4	Frozen Foods	118558.88	
5	Dairy	101276.46	
6	Canned	90706.73	
7	Baking Goods	81894.74	
8	Health and Hygiene	68025.84	
9	Meat	59449.86	
10	Soft Drinks	58514.16	
11	Breads	35379.12	
12	Hard Drinks	29334.68	
13	Others	22451.89	
14	Starchy Foods	21880.03	
15	Breakfast	15596.70	
16	Seafood	9077.87	

D. Fat Content by Outlet for Total Sales

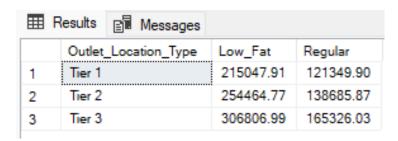
SELECT Outlet_Location_Type,

SUM(CASE WHEN `Item Fat Content` = 'Low Fat' THEN `Total Sales` ELSE 0 END) AS Low_Fat, SUM(CASE WHEN `Item Fat Content` = 'Regular' THEN `Total Sales` ELSE 0 END) AS Regular

FROM blinkit

GROUP BY Outlet_Location_Type

ORDER BY Outlet_Location_Type;



E. Total Sales by Outlet Establishment

SELECT Outlet_Establishment_Year, CAST(SUM(Total_Sales) AS DECIMAL(10,2))
AS Total_Sales

FROM blinkit

GROUP BY Outlet_Establishment_Year

ORDER BY Outlet_Establishment_Year

⊞ Results				
	Outlet_Establishment_Year2	Total_Sales		
1	1998	204522.26		
2	2000	131809.02		
3	2010	132113.37		
4	2011	78131.56		
5	2012	130476.86		
6	2015	130942.78		
7	2017	133103.91		
8	2020	129103.96		
9	2022	131477.77		

F. Percentage of Sales by Outlet Size

SELECT

```
Outlet_Size,

CAST(SUM(Total_Sales) AS DECIMAL(10,2)) AS Total_Sales,

CAST((SUM(Total_Sales) * 100.0 / SUM(SUM(Total_Sales)) OVER()) AS

DECIMAL(10,2)) AS Sales_Percentage

FROM blinkit

GROUP BY Outlet_Size

ORDER BY Total_Sales DESC;
```

Query Explanation:

Outlet_Size: This column represents the size category of the outlet (e.g., Small, Medium, Large).

CAST(SUM(Total_Sales) AS DECIMAL(10,2)) AS Total_Sales:

- SUM(Total_Sales): Calculates the total sales for each Outlet Size.
- CAST(... AS DECIMAL(10,2)): Formats the resulting sum to a decimal number with two decimal places for precision.

CAST((SUM(Total_Sales) * 100.0 / SUM(SUM(Total_Sales)) OVER()) AS DECIMAL(10,2)) AS Sales_Percentage:

- SUM(Total_Sales) * 100.0: Multiplies the total sales of the current Outlet_Size by 100 to prepare for percentage calculation.
- SUM(SUM(Total_Sales)) OVER():
 - SUM(Total_Sales): Within the GROUP BY context, this computes the total sales for each Outlet_Size.
 - SUM(...) OVER(): The outer SUM combined with the OVER() clause calculates
 the grand total of all Total_Sales across all outlet sizes without
 collapsing the result set.
- SUM(Total_Sales) * 100.0 / SUM(SUM(Total_Sales)) OVER(): Divides the total sales of the current Outlet_Size by the grand total sales and multiplies by 100 to get the percentage contribution of each outlet size to the overall sales.
- CAST(... AS DECIMAL(10,2)): Formats the resulting percentage to two decimal places.

⊞ Results					
	Outlet_Size	Total_Sales	Sales_Percentage		
1	Medium	507895.73	42.27		
2	Small	444794.17	37.01		
3	High	248991.58	20.72		

G. Sales by Outlet Location

```
SELECT Outlet_Location_Type, CAST(SUM(Total_Sales) AS DECIMAL(10,2)) AS
Total_Sales
FROM blinkit
GROUP BY Outlet_Location_Type
ORDER BY Total_Sales DESC
```

⊞ F	Results	Messages		
	Outlet_Location_Type		Total_Sales	
1	Tier 3		472133.03	
2	Tier 2		393150.64	
3	Tier 1		336397.81	

H. All Metrics by Outlet Type:

⊞ Results							
	Outlet_Type	Total_Sales	Avg_Sales	No_Of_Items	Avg_Rating	Item_Visibility	
1	Supermarket Type1	787549.89	141	5577	3.96	0.06	
2	Grocery Store	151939.15	140	1083	3.99	0.10	
3	Supermarket Type2	131477.77	142	928	3.97	0.06	
4	Supermarket Type3	130714.67	140	935	3.95	0.06	