Blinkit Analysis

• See all the data imported:

```
SELECT * FROM blinkit_data
```

• 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.

```
UPDATE blinkit_grocerry
SET item_fat_content =

CASE

WHEN item_fat_content IN ('low fat', 'LF') THEN 'Low Fat'
WHEN item_fat_content IN ('regular', 'reg') THEN 'Regular'
ELSE item_fat_content
END;
```

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

SELECT DISTINCT(item_fat_content) FROM blinkit_grocerry;



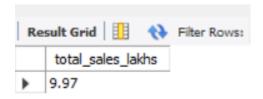
A. KPI's

1. TOTAL SALES:

```
-- 1. TOTAL SALES

SELECT ROUND(SUM(sales)/100000,2) AS total_sales_lakhs

FROM blinkit_grocerry;
```



2. AVERAGE SALES

```
-- 2. AVERAGE SALES

SELECT ROUND(AVG(sales),0) AS avg_sales

FROM blinkit_grocerry;
```

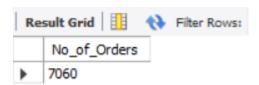


3. NO OF ITEMS

```
-- 3. NO OF ITEMS

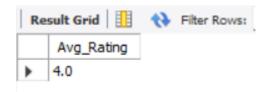
SELECT COUNT(*) AS No_of_Orders

FROM blinkit_grocerry;
```



4. AVG RATING

-- 4. AVG RATING SELECT CAST(AVG(Rating) AS DECIMAL(10,1)) AS Avg_Rating FROM blinkit_grocerry;



1. Total Sales by Item Type:

```
-- 1. Total Sales by Item Type

SELECT Item_Type, CAST(SUM(Sales) AS DECIMAL(10,2)) AS Total_Sales

FROM blinkit_grocerry

GROUP BY Item_Type

ORDER BY Total_Sales DESC;
```

Re	sult Grid 🔢 🙌 Filt	er Rows:
	Item_Type	Total_Sales
•	Fruits and Vegetables	147189.14
	Snack Foods	144949.35
	Household	113210.41
	Frozen Foods	99962.28
	Dairy	84526.64
	Canned	75052.83
	Baking Goods	67587.96
	Health and Hygiene	56383.60
	Soft Drinks	49294.72
	Meat	47159.73
	Breads	28663.35
	Hard Drinks	25261.63
	Starchy Foods	19199.89
	Others	18624.56
	Breakfast	12696.19
	Seafood	7397.67

2. Impact of Fat Content on Sales

```
-- 2. Impact of Fat Content on Sales
SELECT Item_Fat_Content, COUNT(*) AS Num_Items, SUM(Sales) AS Total_Sales, AVG(Sales) AS Avg_Sales
FROM blinkit grocerry
GROUP BY Item_Fat_Content;
Export: Wra
                                              Avg Sales
   Item_Fat_Content Num_Items
                                 Total Sales
   Regular
                     2494
                                 352642.75
                                              141.396451
   Low Fat
                     4566
                                 644517.20 141.155760
```

3. Top 10 Selling Products

```
-- 3. Top 10 Selling Products

SELECT Item_Identifier, SUM(Sales) AS Total_Sales

FROM blinkit_grocerry

GROUP BY Item_Identifier

ORDER BY Total_Sales DESC

LIMIT 10;
```

esult Grid	Filter Rows:		
Item_Identifier	Total_Sales		
FDL58	2111.68		
FDP28	2087.82		
FDB15	1846.72		
FDU12	1844.42		
FDF05	1841.83		
FDR59	1832.92		
FDA04	1812.30		
FDF04	1806.31		
FDT07	1793.61		
NCQ06	1787.00		
	Item_Identifier FDL58 FDP28 FDB15 FDU12 FDF05 FDR59 FDA04 FDF04 FDT07		

4.. Total Sales by Outlet Type

```
-- 4. Sales by Outlet Type

SELECT Outlet_Type, SUM(Sales) AS Total_Sales, AVG(Sales) AS Avg_Sales

FROM blinkit_grocerry

GROUP BY Outlet_Type

ORDER BY Total Sales DESC;
```

Re	esult Grid 📗 🙌	Filter Rows:		E
	Outlet_Type	Total_Sales	Avg_Sales	
•	Supermarket Type 1	787550.42	141.213990	
	Supermarket Type2	131477.89	141.678761	
	Grocery Store	78131.64	140.777730	

5. High visibility Items but Low Sales

```
-- 5. High Visibility Items but Low Sales

SELECT Item_Identifier, Item_Visibility, Sales

FROM blinkit_grocerry

WHERE Item_Visibility > 0.15

ORDER BY Sales ASC

LIMIT 10;
```

Item_Identifier	Item_Visibility	Sales
FDV28	0.159698	32.06
FDV28	0.159595	32.86
NCE31	0.185131	32.92
NCE31	0.184844	33.12
NCE31	0.309390	33.22
FDV28	0.160379	33.66
FDQ47	0.168527	33.69
FDQ47	0.168155	33.79
FDQ47	0.281510	33.89
FDV28	0.159728	34.36

6. Outlet Size vs Sales

-- 6. Outlet Size vs Sales

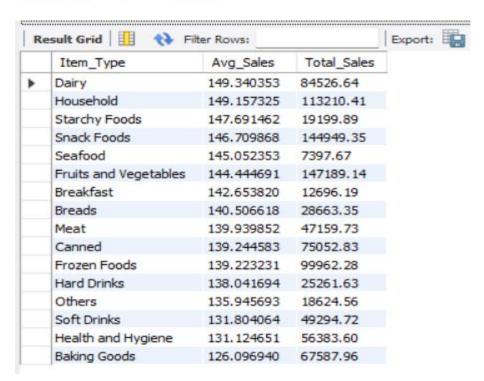
```
SELECT Outlet_Size, SUM(Sales) AS Total_Sales, AVG(Sales) AS Avg_Sales
FROM blinkit_grocerry
GROUP BY Outlet_Size
ORDER BY Total_Sales DESC;
```

	Outlet Size	Total_Sales	Avg Sales
•	Medium	120010000000000000000000000000000000000	139.904065
	Small	370986.95	142.086155
	High	248991.64	142.037444

7. Category wise Average Sales:

-- 7. Category-wise Average Sales

```
SELECT Item_Type, AVG(Sales) AS Avg_Sales, SUM(Sales) AS Total_Sales
FROM blinkit_grocerry
GROUP BY Item_Type
ORDER BY Avg_Sales DESC;
```



8. Top 5 categories in each outlet type:

```
-- 8. Top 5 Categories in Each Outlet Type (Window Function)

SELECT *

FROM (

SELECT Outlet_Type, Item_Type, SUM(Sales) AS Total_Sales,

RANK() OVER (PARTITION BY Outlet_Type ORDER BY SUM(Sales) DESC) AS RankInOutlet

FROM blinkit_grocerry

GROUP BY Outlet_Type, Item_Type
) AS ranked_data

WHERE RankInOutlet <= 5;
```

	Outlet_Type	Item_Type	Total_Sales	RankInOutlet
١	Grocery Store	Fruits and Vegetables	10789.68	1
	Grocery Store	Snack Foods	10649.79	2
	Grocery Store	Household	9822.13	3
	Grocery Store	Frozen Foods	7359.85	4
	Grocery Store	Dairy	6707.85	5
	Supermarket Type 1	Fruits and Vegetables	117432.13	1
	Supermarket Type 1	Snack Foods	114296.30	2
	Supermarket Type 1	Household	89143.57	3
	Supermarket Type 1	Frozen Foods	79348.67	4
	Supermarket Type 1	Dairy	67179.85	5
	Supermarket Type2	Snack Foods	20003.26	1
	Supermarket Type2	Fruits and Vegetables	18967.33	2
	Supermarket Type2	Household	14244.71	3
	Supermarket Type2	Frozen Foods	13253.76	4
	Supermarket Type2	Canned	10852.46	5

9. Find items with different ratings in different outlets:

```
-- 9. Find Items with Different Ratings in Different Outlets

SELECT a.Item_Identifier,

a.Item_Type,

a.Outlet_Identifier AS Outlet_A,

a.Rating AS Rating_A,

b.Outlet_Identifier AS Outlet_B,

b.Rating AS Rating_B

FROM blinkit_grocerry a

JOIN blinkit_grocerry b

ON a.Item_Identifier = b.Item_Identifier

AND a.Outlet_Identifier <> b.Outlet_Identifier

WHERE a.Rating <> b.Rating;
```

Result Grid	Name of the Property of the Pr		Export:	Wrap Cel	Content: 1/
Item_Identifi	er Item_Type	Outlet_A	Rating_A	Outlet_B	Rating_B
FDX32	Fruits and Vegetables	OUT018	3	OUT049	5
FDX32	Fruits and Vegetables	OUT035	4	OUT049	5
FDX32	Fruits and Vegetables	OUT010	4	OUT049	5
NCB42	Health and Hygiene	OUT013	3	OUT018	5
NCB42	Health and Hygiene	OUT045	4	OUT018	5
FDR28	Frozen Foods	OUT017	4	OUT046	5
FDR28	Frozen Foods	OUT049	4	OUT046	5
FDR28	Frozen Foods	OUT018	4	OUT046	5
FDL50	Canned	OUT018	4	OUT013	5
FDL50	Canned	OUT017	4	OUT013	5
DRI25	Soft Drinks	OUT010	3	OUT045	5
FDS52	Frozen Foods	OUT018	3	OUT017	5
FDS52	Frozen Foods	OUT010	4	OUT017	5
FDS52	Frozen Foods	OUT035	4	OUT017	5
FDS52	Frozen Foods	OUT045	4	OUT017	5
NCU05	Health and Hygiene	OUT049	4	OUT010	5
NCU05	Health and Hygiene	OUT018	4	OUT010	5

10. Percentage of Sales by outlet size:

```
-- 10. Percentage of Sales by Outlet Size
SELECT
   Outlet_Size,
   CAST(SUM(Sales) AS DECIMAL(10,2)) AS Total_Sales,
   CAST((SUM(Sales) * 100.0 / SUM(SUM(Sales)) OVER()) AS DECIMAL(10,2)) AS Sales_Percentage
FROM blinkit_grocerry
GROUP BY Outlet_Size
ORDER BY Total Sales DESC;
Result Grid
                 Filter Rows:
    Outlet_Size Total_Sales Sales_Percentage
   Medium
                 377181.36
                               37.83
   Small
                 370986.95 37.20
```

11. Sales by outlet location:

248991.64

High

24.97

12. All metrices by outlet type:

	esult Grid				Wrap Cell Co	
	Outlet_Type	Total_Sales	Avg_Sales	No_Of_Items	Avg_Rating	Avg_Visibility
١	Supermarket Type 1	787550.42	141	5577	3.95	0.06
	Supermarket Type2	131477.89	142	928	3.95	0.06
	Grocery Store	78131.64	141	555	3.97	0.10