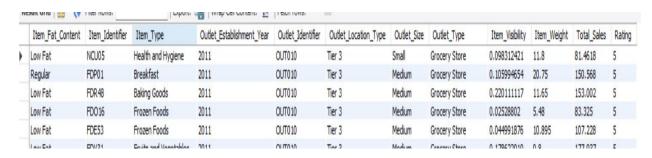
Blinket Data Analysis using SQL

This project analyzes Blinket sales, outlet performance, and product insights using SQL queries. It includes data cleaning, aggregation, and performance comparisons across various outlet and product categories.

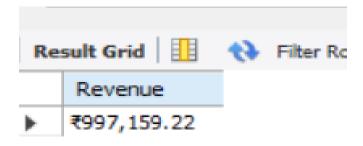
1. Data Cleaning - Standardizing Item_Fat_Content

```
SET SQL_SAFE_UPDATES = 0;
UPDATE blinket_data
SET Item_Fat_Content =
CASE
    WHEN Item_Fat_Content IN ('LF', 'low fat') THEN 'Low Fat'
    WHEN Item_Fat_Content = 'reg' THEN 'Regular'
    ELSE Item_Fat_Content
END;
SELECT * FROM blinket_data;
```



2. Total Revenue Calculation

SELECT CONCAT('₹', FORMAT(SUM(Total_Sales), 2)) AS Revenue FROM blinket_data;



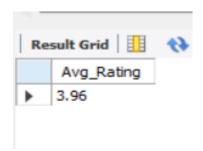
3. Average Sales Calculation

SELECT CONCAT('₹', FORMAT(AVG(Total_Sales), 2)) AS Avg_Sales FROM blinket_data;



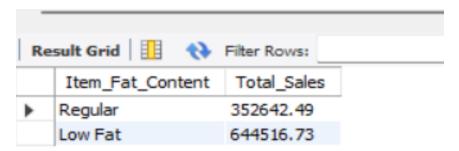
4. Average Rating Calculation

SELECT CAST(AVG(Rating) AS DECIMAL(7, 2)) AS Avg_Rating FROM blinket_data;



5. Total Sales by Item_Fat_Content

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



6. Sales Summary by Item_Fat_Content

SELECT Item_Fat_Content,
FORMAT(SUM(Total_Sales), 2) AS Total_Sales,
FORMAT(AVG(Total_Sales), 2) AS Avg_Sales,
FORMAT(COUNT(*), 2) AS No_of_Items,
FORMAT(AVG(Rating), 2) AS Avg_Rating
FROM blinket_data
GROUP BY Item_Fat_Content
ORDER BY Total_Sales DESC;



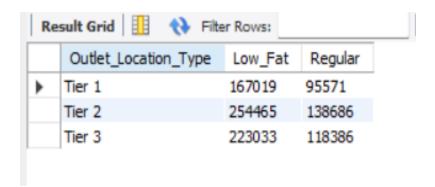
7. Top 5 Item Types by Total Sales

SELECT Item_Type,
FORMAT(SUM(Total_Sales), 2) AS Total_Sales,
FORMAT(AVG(Total_Sales), 2) AS Avg_Sales,
FORMAT(COUNT(*), 2) AS No_of_Items,
FORMAT(AVG(Rating), 2) AS Avg_Rating
FROM blinket_data
GROUP BY Item_Type
ORDER BY Total_Sales DESC
LIMIT 5;

	Item_Type	Total_Sales	Avg_Sales	No_of_Items	Avg_rating
١	Frozen Foods	99,961.88	139.22	718.00	3.96
	Dairy	84,526.49	149.34	566.00	3.97
	Canned	75,053.00	139.24	539.00	3.99
	Seafood	7,397.56	145.05	51.00	3.88
	Baking Goods	67,588.11	126.10	536.00	3.98

8. Comparison of Low Fat vs Regular Sales by Location

```
SELECT Outlet_Location_Type,
ROUND(IFNULL(SUM(CASE WHEN Item_Fat_Content = 'Low Fat' THEN Total_Sales END),
0)) AS Low_Fat,
ROUND(IFNULL(SUM(CASE WHEN Item_Fat_Content = 'Regular' THEN Total_Sales END),
0)) AS Regular
FROM blinket_data
GROUP BY Outlet_Location_Type
ORDER BY Outlet_Location_Type;
```



9. Sales and Rating by Establishment Year

SELECT Outlet_Establishment_Year,
FORMAT(SUM(Total_Sales), 2) AS Total_Sales,
FORMAT(AVG(Total_Sales), 2) AS Avg_Sales,
FORMAT(COUNT(*), 2) AS No_of_Items,
FORMAT(AVG(Rating), 2) AS Avg_Rating
FROM blinket_data
GROUP BY Outlet_Establishment_Year
ORDER BY Total Sales DESC;

	Outlet_Establishment_Year	Total_Sales	Avg_Sales	No_of_Items	Avg_rating
•	2011	78,131.56	140.78	555.00	3.97
	2017	133,103.91	143.12	930.00	3.94
	2010	132,113.37	142.06	930.00	3.95
	2000	131,809.02	141.43	932.00	3.94
	2022	131,477.77	141.68	928.00	3.95
	2015	130,942.78	140.95	929.00	3.96
	2012	130,476.86	140.30	930.00	3.97

10. Sales Percentage by Outlet Size

```
SELECT Outlet_Size,
FORMAT(SUM(Total_Sales), 2) AS Total_Sales,
CONCAT(
    ROUND(SUM(Total_Sales) * 100 / (SELECT SUM(Total_Sales) FROM
blinket_data), 2),
    '%'
) AS Sales_Percent
FROM blinket_data
GROUP BY Outlet_Size
ORDER BY SUM(Total_Sales) DESC;
```

	Outlet_Size	Total_Sales	Sales_Percent
١	Medium	377,181.05	37.83%
	Small	370,986.59	37.2%
	High	248,991.58	24.97%

11. Outlet Location Type Performance

```
SELECT Outlet_Location_Type,
FORMAT(SUM(Total_Sales), 2) AS Total_Sales,
FORMAT(AVG(Total_Sales), 2) AS Avg_Sales,
FORMAT(COUNT(*), 2) AS No_of_Items,
FORMAT(AVG(Rating), 2) AS Avg_Rating
FROM blinket_data
GROUP BY Outlet_Location_Type
ORDER BY Total_Sales DESC;
```

R	esult Grid 📗 🙌 Filt	er Rows:		Export:	Wrap Cell Content:	<u>‡A</u>
	Outlet_Location_Type	Total_Sales	Avg_Sales	No_of_Items	Avg_rating	
٠	Tier 2	393,150.64	141.17	2,785.00	3.96	
	Tier 3	341,418.35	141.37	2,415.00	3.95	
	Tier 1	262,590.23	141.18	1,860.00	3.96	

12. Outlet Type Analysis

SELECT Outlet_Type,

FORMAT(SUM(Total_Sales), 2) AS Total_Sales,

FORMAT(AVG(Total_Sales), 2) AS Avg_Sales,

FORMAT(COUNT(*), 2) AS No_of_Items,

FORMAT(AVG(Rating), 2) AS Avg_Rating

FROM blinket_data

GROUP BY Outlet_Type

ORDER BY Total_Sales DESC;

R	esult Grid	Filter Rows:		Export:	Wrap Cell Cor	ntent
	Outlet_Type	Total_Sales	Avg_Sales	No_of_Items	Avg_rating	
٠	Supermarket Type 1	787,549.89	141.21	5,577.00	3.95	
	Grocery Store	78,131.56	140.78	555.00	3.97	
	Supermarket Type2	131,477.77	141.68	928.00	3.95	