### **SQL QUERIES WITH OUTPUT**

<u>BUSINESS REQUIREMENTS:</u> To conduct a comprehensive analysis of Blinkit's sales performance, customer satisfaction, and inventory distribution to identify key insights and opportunities for optimization using various KPIs and visualisation in Power BI.

### **KPI REQUIREMENTS:**

-- 1. Total Sales: The overall revenue generated from all items sold.

**QUERY:** select sum(sales) as total\_sales from blinkit\_data;

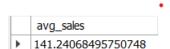
#### **OUTPUT:**

total_sales			
•	997159.2358000028		

-- 2. Average Sales: The average revenue per sale.

**QUERY:** select avg(sales) as avg\_sales from blinkit\_data;

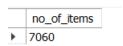
### OUTPUT:



-- 3. Number of Items: The total count of different items sold.

**QUERY:** select count('Item Identifier') as no\_of\_items from blinkit\_data;

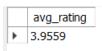
#### **OUTPUT**:



-- 4. Average Rating: The average customer rating for items sold.

QUERY: select avg(Rating) as avg\_rating from blinkit\_data;

### OUTPUT:



### **CHARTS REQUIREMENTS:**

-- 1. Total sales by fat content

**Objective:** Analyze the impact of fat content on total sales.

**Additional KPI Metrics:** Assess how other KPIs (Average Sales, Number of Items, Average Rating) vary with fat content.

Chart Type: Donut Chart(used in Power BI).

QUERY: select 'Item Fat Content', sum(sales) as total\_sales from blinkit\_data

group by 'Item Fat Content'

## order by total\_sales;

#### OUTPUT:

	Item Fat Content	total_sales
•	Regular	352642.4937999999
	Low Fat	644516.7419999995

### -- 2. Total sales by item type

**Objective:** Identify the performance of different item types in terms of total sales.

Additional KPI Metrics: Assess how other KPIs (Average Sales, Number of Items, Average Rating) vary

with fat content.

**Chart Type:** Bar Chart(used in Power BI).

**QUERY:** select `item type`, sum(sales) as total\_sales from blinkit\_data

group by `item type`;

#### OUTPUT:

	item type	total_sales		
١	Fruits and Vegetables	147188.9632		
	Health and Hygiene	56383.802000000025		
	Frozen Foods	99961.88179999996		
	Canned	75052.99999999996		
	Soft Drinks	49294.67379999997		
	Household	113210.14200000005 28663.184800000003 25261.621400000004		
	Breads			
	Hard Drinks			
	Dairy	84526.49679999994 12696.1874 144949.13000000006 47159.90099999999		
	Breakfast			
	Snack Foods			
	Meat			
	Others	18624.596999999998		
	Baking Goods	67588.11300000007		
	Seafood	7397.564399999999		
	Starchy Foods	19199.97719999999		

## -- 3. Fat content by outlet for total sales

**Objective:** Compare total sales across different outlets segmented by fat content.

Additional KPI Metrics: Assess how other KPIs (Average Sales, Number of Items, Average Rating) vary

with fat content.

Chart Type: Stacked Column Chart(used in Power BI).

**QUERY:** select 'outlet identifier', 'item fat content', sum(sales) as total\_sales from blinkit\_data

group by 'outlet identifier', 'item fat content';

OUTPUT:

	outlet identifier	item fat content	total_sales		
•	OUT049	Regular	48060.80380000007		
	OUT018	Low Fat	84844.60899999995		
	OUT046	Regular	47510.04859999998		
	OUT013	Regular	45406.87080000001		
	OUT045	Low Fat	85034.81220000004		
	OUT017	Low Fat	82947.0497999999		
	OUT010	Low Fat	51785.83160000003		
	OUT013	Low Fat	86402.14480000007		
	OUT035	Low Fat	86482.91739999998		
	OUT035	Regular	46620.989600000015		
	OUT049	Low Fat	82416.056		
	OUT017	Regular	46156.91060000002		
	OUT046	Low Fat	84603.3212		
	OUT045	Regular	45907.96800000002		
	OUT010	Regular	26345.735000000004		
	OUT018	Regular	46633.16740000002		

# -- 4. Total sales by outlet establishment

**Objective:** Evaluate how the age or type of outlet establishment influences total sales. **Chart Type:** Line Chart(used in Power BI).

**QUERY:** select `outlet establishment year`, sum(sales) as total\_sales from blinkit\_data group by `outlet establishment year`;

### **OUTPUT:**

	outlet establishment year	total_sales
•	2012	130476.85979999998
	2022	131477.77639999994
	2016	132113.36980000007
	2014	131809.01560000007
	2015	130942.7802
	2020	129103.96039999987
	2011	78131.56659999998
	2017	133103.9069999999

# -- 5. Sales by outlet size

**Objective:** Analyze the correlation between outlet size and total sales.

**Chart Type:** Donut / Pie Chart(used in Power BI).

**QUERY:** select 'outlet size', sum(sales) as total\_sales from blinkit\_data

group by 'outlet size';

**OUTPUT**:

	outlet size	total_sales		
•	Medium	377181.06179999985		
	Small	370986.5879999998		
	High	248991.58600000024		

## -- 6. Sales by outlet location

**Objective:** Assess the geographic distribution of sales across different locations.

Chart Type: Funnel Map(used in Power BI).

QUERY: select 'outlet location type', sum(sales) as total\_sales from blinkit\_data

group by 'outlet location type';

### OUTPUT:

total_sales
262590.2295999998
341418.35860000044
393150.64759999956

### -- 7. All metrics by outlet type

**Objective:** Provide a comprehensive view of all key metrics (Total Sales, Average Sales, Number of Items, Average Rating) broken down by different outlet types.

**Chart Type:** Matrix Card(used in Power BI).

**QUERY:** select `outlet location type`, count(`item identifier`) as total\_items, sum(sales) as total\_sales, avg(sales) as avg\_sales,

avg(rating) as avg\_rating, avg(`item weight`) as avg\_item\_weight, avg(`item visibility`) as avg\_item\_visibility from blinkit\_data

group by 'outlet location type'

order by total\_sales;

### OUTPUT:

	outlet location type	total_items	total_sales	avg_sales	avg_rating	avg_item_weight	avg_item_visibility
•	Tier 1	1860	262590.2295999998	141.1775427956988	3.9608	12.892123655913945	0.06063499119946228
	Tier 3	2415	341418.35860000044	141.37406153209128	3.9516	12.933745341614797	0.0699006818240165
	Tier 2	2785	393150.64759999956	141.16719842010755	3.9566	12.768628366247599	0.061037827982405736