

SUMMARY

The BlinkIT real-time sales analysis dashboard, built in **MS Excel**, is a comprehensive tool designed to offer an in-depth view of sales performance, outlet data, and product trends. The dashboard provides interactive features through slicers and filters, allowing users to examine key metrics such as total sales, number of items, sales by fat content, outlet performance, and item category breakdowns.

Key Performance Indicators (KPIs)

The KPIs on the dashboard provide an at-a-glance summary of key metrics:

- **Total Sales: \$1.2M**, representing the total revenue generated across all outlets and item types.
 - **Average Sales per Outlet: \$141M**, offering insight into the typical sales figures for outlets.
 - **Number of Items Sold: 85,230** products, showing the scale of operations.
 - **Average Customer Rating: 4.0**, indicating a relatively high customer satisfaction level.
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Filter Panel

On the left-hand side, an interactive filter panel allows users to drill down into the data:

- **Outlet Size:** Filters data by **High**, **Medium**, and **Small** outlet categories.
 - **Outlet Location:** Enables analysis based on **Tier 1**, **Tier 2**, and **Tier 3** regions.
 - **Item Type:** Allows the selection of various item types like **Baking Goods**, **Breads**, **Dairy**, **Frozen Foods**, **Household items**, etc., for detailed category-wise analysis.
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Detailed Breakdown of Visualizations

1. Total Sales by Item Type

- A **horizontal bar chart** displays the total sales by each item category, providing a clear visual of which items contribute the most to overall sales.
- **Fruits and Vegetables** lead with **\$372.12K**, contributing **31%** of total sales.
- **Snack Foods** and **Household items** follow with **\$175.43K** (15%) and **\$155.98K** (13%), respectively.
- Categories such as **Seafood** and **Breads** rank lower, with sales below **\$16K**, accounting for less than **1%** of total sales.

2. Fat Content Analysis

- A **pie chart** and bar graphs are used to explore the **fat content** (Low Fat vs. Regular) of items sold across different tiers:
 - **57.3%** of total sales are from **Regular fat** products, generating **\$776.23K**.
 - **42.7%** are **Low-fat products**, contributing **\$425.36K**.
- The chart further breaks down the fat content data by **outlet tiers**:
 - In **Tier 3** outlets, **Low Fat** products make up **36.2%** of sales, while **Regular Fat** items contribute **63.8%**.

3. Outlet Establishment Sales Trends

- A **line chart** visualizes the sales trends from **2011 to 2022**:
 - Sales reached their highest point in **2017** at **\$204.5K**.
 - The lowest recorded sales were in **2011** at **\$78.1K**, showing consistent growth until **2020**, when sales dipped slightly.
 - The trend helps identify the growth trajectory and possible reasons for the 2020 decline (external factors like market shifts or global disruptions).

4. Sales by Outlet Size

- A **donut chart** visualizes the distribution of total sales based on outlet size:
 - **Medium-sized outlets** dominate with **\$507.9K** in sales, accounting for **42.3%** of the total.
 - **Small outlets** contribute **\$444.8K (37.1%)**, and **High outlets** generate **\$249.0K (20.6%)**.

5. Outlet Type and Location Analysis

- A **stacked bar chart** explores total sales and average sales by outlet type (e.g., **Supermarket**, **Grocery Store**, etc.):
 - **Supermarkets (Type 1)** lead with **\$507.5K**, contributing around **42.3%** of total sales, followed by **Supermarket (Type 2)** with **\$131.5K (10.9%)**.
 - **Grocery stores** bring in **\$151.4K (12.6%)**.
- A similar analysis is done for **outlet locations**:
 - **Tier 3** outlets lead with **\$472.1K** in total sales (**39.3%**), while **Tier 1** and **Tier 2** contribute **\$386.4K** and **\$393.2K**, respectively.

Conclusion

This BlinkIT real-time sales analysis dashboard leverages a combination of **bar charts**, **pie charts**, **line charts**, and **pivot tables** to deliver a comprehensive analysis of sales data. The use of **percentage breakdowns**, like in fat content or outlet sizes, helps provide a clear understanding of proportional sales contributions. The dashboard also effectively allows users to filter data for specific outlets, product types, and locations, making it a highly flexible and interactive tool for sales analysis.