CREATING DASHBOARD USING POWER BI

TITLE

Blinkit Grocery Sales Dashboard

DOCUMENTED By

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Blinkit Grocery Sales Dashboard

Problem statement:

Retail grocery chains often struggle with understanding sales performance across outlets, item categories, and product visibility. Decision-makers lack clear visibility into product popularity, outlet type contribution, and rating effectiveness. This Power BI project helps Blinkit analyze product sales, outlet performance, and item types to optimize inventory, marketing, and pricing strategies.

Abstract:

The Blinkit Grocery Dashboard visualizes key business metrics such as total sales, item counts, average ratings, outlet performance, and item visibility across various outlet types and product categories. Built using Power BI, it empowers managers to filter insights by outlet location, size, and item type for strategic planning. The dashboard presents trends over time, fat content influence, and product group-wise analysis.

Introduction

With over 8,500 rows of retail data, the project aims to deliver dynamic, real-time insights into Blinkit's grocery operations. This includes tracking fat content preference, outlet size/category analysis, and product sales rankings. The dashboard allows drill-downs by item type, outlet geography (tier system), and fat classification (low fat vs regular), helping management optimize product strategy and supply chain.

Tools and Technologies Used:

- Power BI dashboard creation
- Excel data cleaning
- Power Query data transformation
- DAX calculated KPIs
- CSV file grocery sales data (8,523 rows)

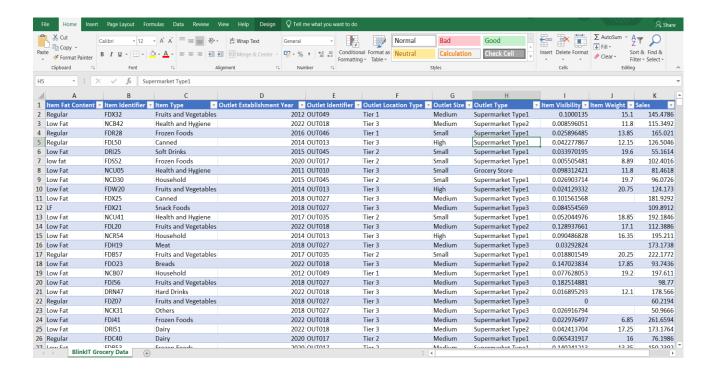
Methodology

Data Collection:

- Source: Blinkit internal sales data (CSV format)
- Fields: Item Type, Fat Content, Outlet Type, Sales, Ratings, etc.

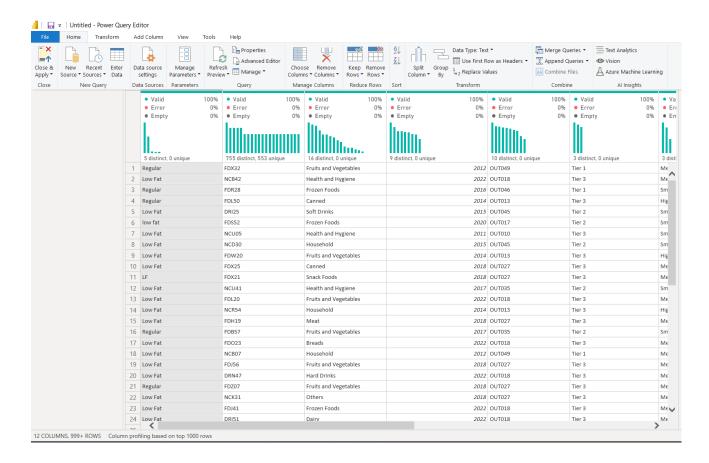
Data Cleaning & Preprocessing (Excel):

- Standardized "Fat Content" (e.g., "LF", "low fat" → "Low Fat")
- Removed blank or duplicate rows
- Formatted numeric columns



Data Transformation (Power Query)

- Created calculated columns for visibility buckets, fat categories, and totals
- · Handled column formatting and missing values



Power Query Editor

Data Modeling:

Used a single table model and created the following DAX measures:

```
DAX

Total_Sales = SUM(Sales)

Avg_Rating = AVERAGE(Rating)

No_of_Items = COUNT('Item Identifier')

Avg_Sales = AVERAGE(Sales)
```

Dashboard Analysis:

- **Supermarket Type 1** had the highest sales (~\$787K)
- Tier 3 locations performed best in revenue (~\$472K)
- Low Fat products were sold more frequently in Tier 2 and Tier 3 outlets
- Top-selling items: Fruits & Vegetables, Snack Foods, Household
- 2018 was the peak year in terms of outlet establishment and sales

Implementation Steps:

- 1. Load and clean dataset in Excel
- 2. Import the dataset into Power BI
- 3. Transform data in Power Query
- 4. Create DAX measures for KPIs
- 5. Build visuals and organize dashboard
- 6. Add slicers for filters like outlet size, location, item type

Visuals Created:

- Total Sales, Avg Rating, Avg Sales (KPI Cards)
- Fat Content (Donut Chart)
- Item Type Sales (Bar Chart)
- Outlet Size (Donut Chart)
- Sales Trend by Year (Area Chart)
- Outlet Location (Horizontal Bar)
- Summary Matrix for Outlet Types

Results and Discussion:

The dashboard helps identify which outlets and item types are performing best. It provides insight into how fat content and visibility affect product popularity, allowing for more informed inventory and marketing decisions.

Conclusion & Future Scope:

This Power BI dashboard provides useful insights for Blinkit's grocery operations. It simplifies sales analysis across outlets and items. In the future, this could be improved with:

- Live data refresh
- Forecasting future sales
- Customer behavior analysis
- Brand-wise breakdowns

OUTPUT:



Dashboard Overview