

# MAVEN TOYS INSIGHTS HUB: NAVIGATING SALES, INVENTORY, AND GROWTH STRATEGIES

Several thin, white, parallel lines are drawn diagonally across the bottom right portion of the image, starting from the bottom edge and extending towards the top right corner.

# INTRODUCTION

Maven Toys, a fictitious chain of toy stores in Mexico, has provided datasets containing information about products, stores, daily sales transactions, and inventory levels. The purpose of this data analysis is to derive meaningful insights that can inform decision-making and strategic planning.

## Datasets Used:

- Sales Data
- Inventory Data
- Product Data
- Stores Data

## Objectives:

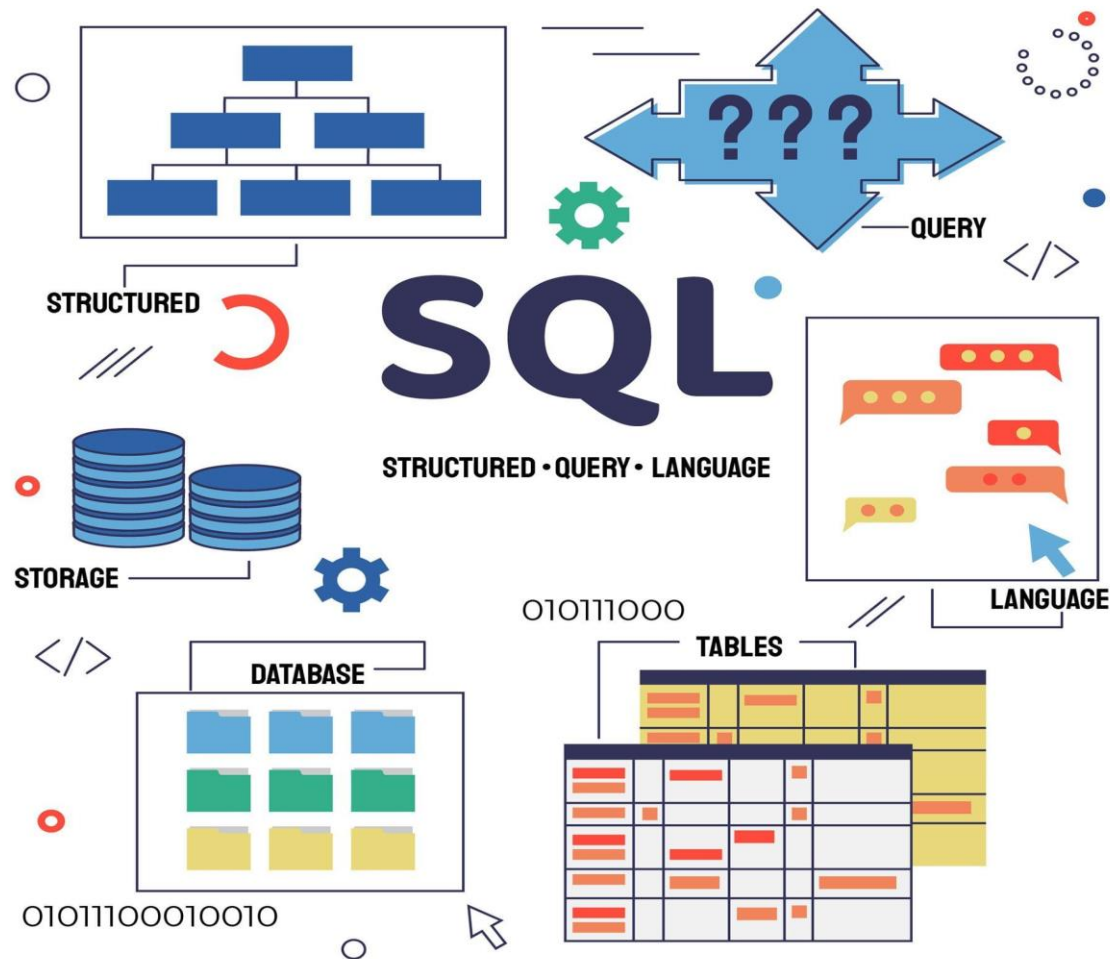
The objectives of this analysis are:

- Understand product performance.
- Evaluate inventory status.
- Explore sales trends.
- Assess store-level insights.

## Metrics Explored:

- Total Sales Profits
  - Total Units Sold
  - Out of Stock Count
  - Inventory Value
  - Product Categories
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- A series of four parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

# QUERIES AND VISUALIZATION



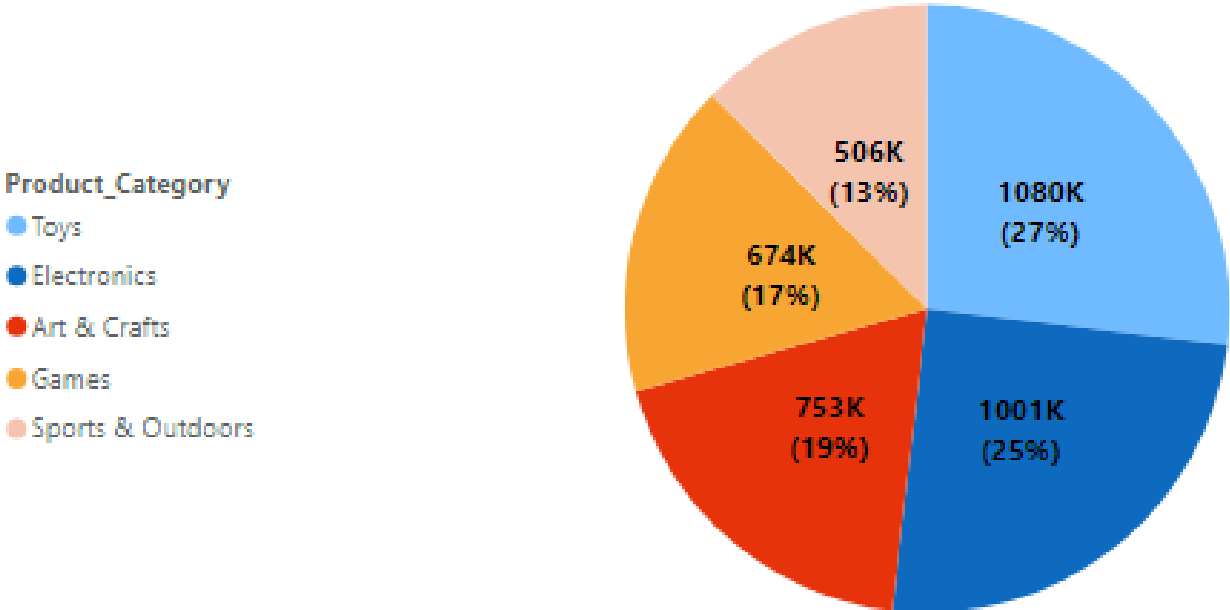
# QUERY 1: PRODUCT CATEGORIES DRIVING PROFITS

-- Which product categories drive the biggest profits? Is this the same across store locations?

```
SELECT
    s.Store_ID,
    p.Product_Category,
    SUM(s.Units * (p.Product_Price - p.Product_Cost)) AS TotalProfit
FROM [mev_toy].[dbo].[sales-230126-100644] s
JOIN [mev_toy].[dbo].[products-230126-100423] p ON s.Product_ID = p.Product_ID
GROUP BY s.Store_ID, p.Product_Category
```

Results			
	Store_ID	Product_Category	TotalProfit
1	1	Games	13885.00
2	24	Sports & Outdoors	8287.00
3	44	Electronics	24599.00
4	50	Art & Crafts	12445.00
5	17	Toys	31303.00
6	44	Games	9517.00
7	24	Art & Crafts	9818.00
8	27	Electronics	9335.00
9	34	Toys	19014.00
10	10	Sports & Outdoors	23383.00
11	7	Art & Crafts	17984.00
12	27	Games	10031.00
13	18	Electronics	15811.00
14	43	Toys	14938.00
15	33	Art & Crafts	11208.00

Total\_Profit by Product\_Category

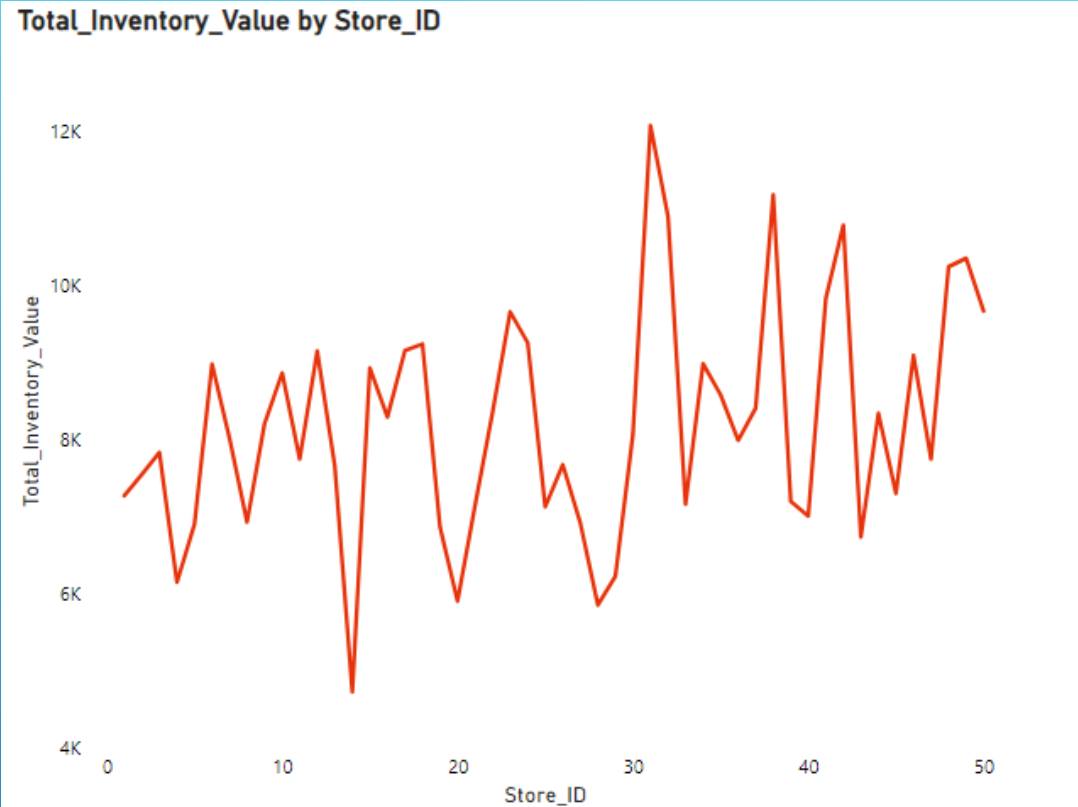


Toys accounted for **27%** of the Highest Total Profit, while Sports & Outdoors accounted for **13%** of Lowest Total Profit.

# QUERY 2: INVENTORY VALUE

```
SELECT
  i.Store_ID,
  SUM(i.Stock_On_Hand * p.Product_Price) AS TotalInventoryValue,
  SUM(i.Stock_On_Hand * p.Product_Price) / AVG(daily_sales.DailySales) AS DaysToSellOut
FROM [mev_toy].[dbo].[inventory-230126-100430] i
JOIN [mev_toy].[dbo].[products-230126-100423] p ON i.Product_ID = p.Product_ID
JOIN (
  SELECT Store_ID, AVG(Units) AS DailySales
  FROM [mev_toy].[dbo].[sales-230126-100644]
  GROUP BY Store_ID
) daily_sales ON i.Store_ID = daily_sales.Store_ID
GROUP BY i.Store_ID;
```

	Store_ID	TotalInventoryValue
1	23	9654.96
2	46	9092.50
3	29	6229.65
4	9	8211.21
5	15	8930.26
6	3	7833.86
7	32	10896.49
8	26	7675.19
9	12	9145.44
10	35	8580.58
11	6	8978.21
12	43	6740.74
13	49	10349.62
14	21	7150.16
15	27	6921.21



At **12,067.85**, Store\_ID 31 had the highest Total\_Inventory\_Value and was **154.95%** higher than Store\_ID 14, which had the lowest Total\_Inventory\_Value at **4,733.33**.

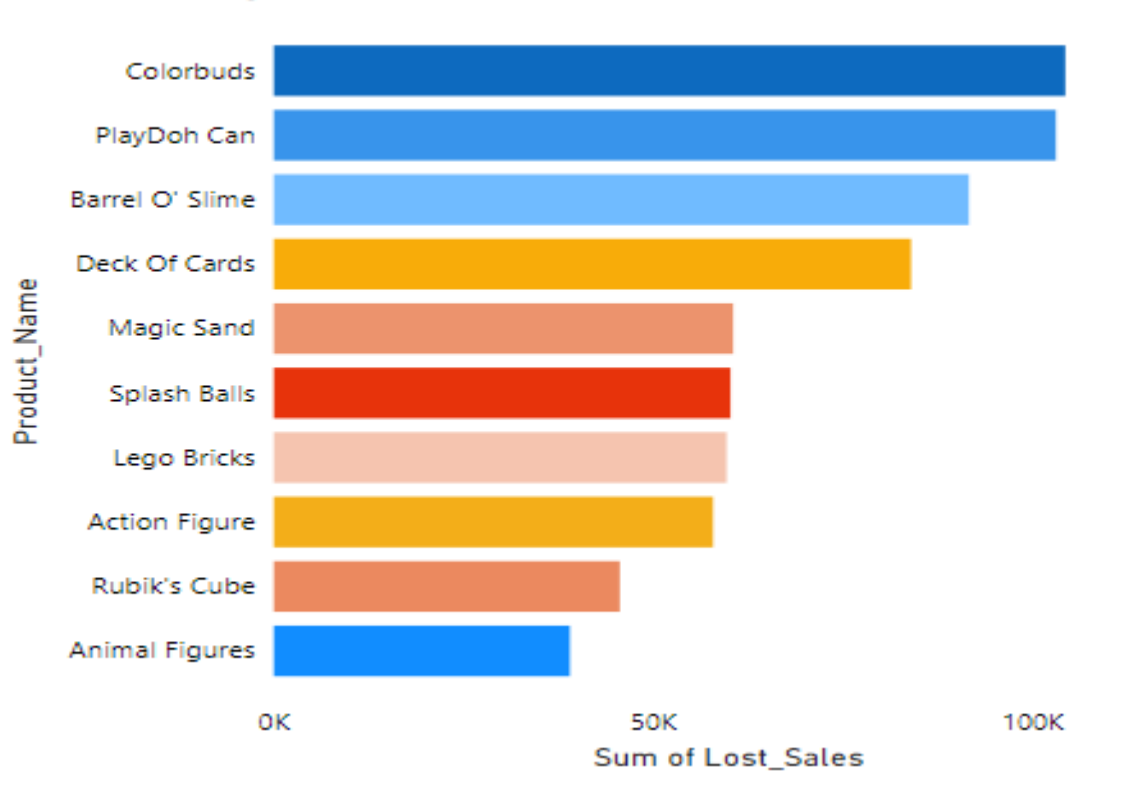
Store\_ID 31 accounted for **2.94%** of Total\_Inventory\_Value

Across all 50 Store\_ID, Total\_Inventory\_Value ranged from **4,733.33 to 12,067.85**

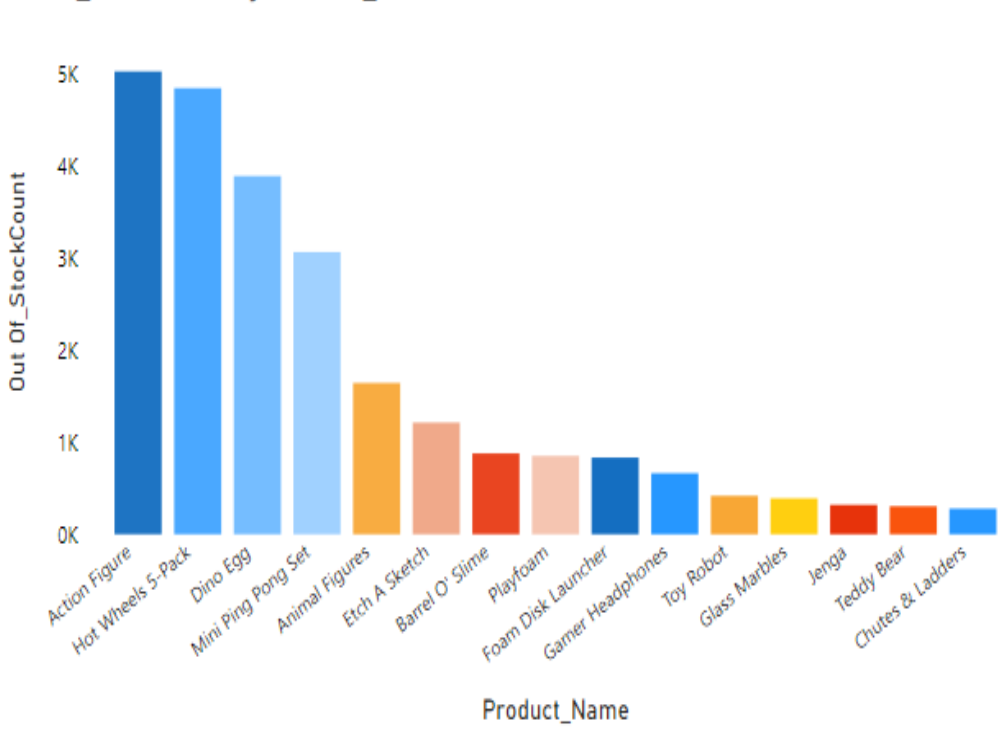
# QUERY 3: OUT-OF-STOCK AND LOST SALES ANALYSIS

```
SELECT
  s.Store_ID,
  p.Product_Name,
  COUNT(CASE WHEN i.Stock_On_Hand = 0 THEN 1 ELSE NULL END) AS OutOfStockCount,
  SUM(s.Units) AS LostSales
FROM [mev_toy].[dbo].[sales-230126-100644] s
JOIN [mev_toy].[dbo].[inventory-230126-100430] i ON s.Store_ID = i.Store_ID AND s.Product_ID = i.Product_ID
JOIN [mev_toy].[dbo].[products-230126-100423] p ON s.Product_ID = p.Product_ID
GROUP BY s.Store_ID, p.Product_Name;
```

Lost\_Sales by Product\_Name

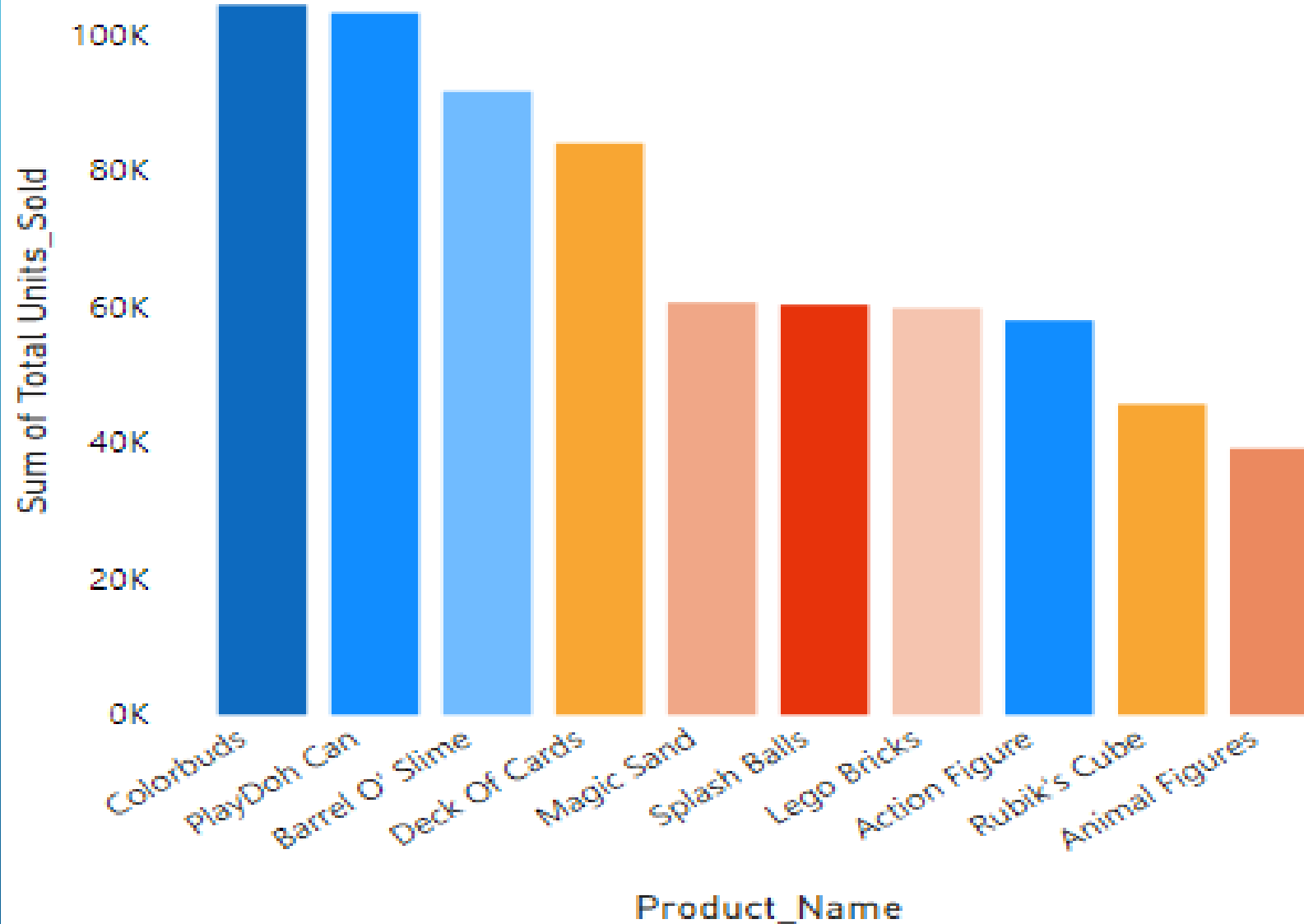


Out Of\_StockCount by Product\_Name



Product Action Figure has the Highest Out of Stock Count and Product Colorbuds has the Highest Lost Sales.

## Total Units\_Sold by Product\_Name





# CONCLUSION:

- The analysis has uncovered valuable insights into Maven Toys' operations.
- Product categories with the highest profits were identified.
- Inventory dynamics and potential stockout risks were explored.
- Maven Toys demonstrates strengths in certain product categories.
- Opportunities exist for strategic growth and optimization.

# RECOMMENDATIONS:

- Implement real-time tracking to reduce stockouts.
- Allocate resources to high-profit product categories.
- Introduce promotions or bundles to boost sales in specific areas.
- Continue regular analysis to adapt strategies to evolving market trends.
- Consider customer feedback and incorporate it into decision-making.

## RECOMMENDATIONS FOR FURTHER ANALYSIS:

- Assess the efficiency of the supply chain for potential optimizations.
- Compare Maven Toys' performance with competitors for industry insights.
- Develop predictive models for sales forecasting and inventory planning.
- Collaborate with marketing and sales teams to gather qualitative data and enhance analysis.

