Walmart Business Problem

Customer Behavior & Payment Preferences

1. Analyze Payment Methods and Sales

Question: What are the different payment methods, and how many transactions and items were sold with each method?

Purpose: Understand customer preferences for payment methods, aiding in payment optimization strategies.

2. Determine the Most Common Payment Method per Branch

Question: What is the most frequently used payment method in each branch?

Purpose: Understand branch-specific payment preferences, helping streamline payment processes.

Sales & Revenue Analysis

3. Analyze Average Revenue per Transaction by Branch

Question: What is the average revenue per transaction in each Walmart branch?

Purpose: Compare sales performance across branches and identify high/low-performing stores.

4. Identify Top 3 Revenue-Contributing Product Categories

Question: Which three product categories generate the most revenue overall? **Purpose:** Focus marketing and inventory planning on high-performing categories.

5. Analyze Monthly Sales Trends

Question: How do sales trends vary month-by-month across different Walmart branches?

Purpose: Forecast demand and plan seasonal campaigns and inventory.

6. Identify Month with Highest Average Transaction Value

Question: In which month did Walmart record the highest average transaction value?

Purpose: Recognize high-spending periods to inform promotional strategies.

7. Compare Weekend vs Weekday Sales

Question: How do sales and transaction volumes differ between weekdays and weekends?

Purpose: Align staffing and inventory with customer traffic patterns.

8. Identify Branches with Highest Revenue Decline Year-Over-Year

Question: Which branches experienced the largest decrease in revenue compared to the previous year?

Purpose: Detect and respond to local issues affecting revenue.

Branch & Shift Optimization

9. Determine the Busiest Day for Each Branch

Question: What is the busiest day of the week for each branch based on transaction volume?

Purpose: Optimize staffing and inventory to meet peak-day demand.

10. Analyze Sales Shifts Throughout the Day

Question: How many transactions occur in each shift (Morning, Afternoon, Evening) across branches?

Purpose: Improve shift management and replenishment schedules.

Product Category Performance

11. Identify the Highest-Rated Category in Each Branch

Question: Which category received the highest average rating in each branch? **Purpose:** Promote popular categories for better customer satisfaction.

12. Analyze Category Ratings by City

Question: What are the average, minimum, and maximum ratings for each category in each city? **Purpose:** Tailor city-level promotions based on customer preferences.

13. Analyze Average Ratings per Category

Question: What is the average customer rating for each product category? **Purpose:** Evaluate customer satisfaction and guide product development.

14. Calculate Total Profit by Category

Question: What is the total profit for each category, ranked from highest to lowest?

Purpose: Prioritize high-margin products in strategy.