

# COFFEE SHOP SALES ANALYSIS

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Source: Maven Analytics, Coffee Shop Dashboard  
Project, <https://mavenanalytics.io>



# VARIABLE DESCRIPTIONS

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## Original Variables (from dataset)

- **transaction\_id** – Unique identifier for each transaction
- **transaction\_date** – Date of the transaction (YYYY/MM/DD)
- **transaction\_time** – Time of the transaction (HH:MM:SS)
- **transaction\_qty** – Quantity of items purchased in the transaction
- **store\_id** – Numeric code for the store
- **store\_location** – Name of the store location (e.g., Lower Manhattan, Hell's Kitchen)
- **product\_id** – Unique identifier for each product
- **unit\_price** – Price of a single unit of the product (in USD)
- **product\_category** – Broad category of the product (e.g., Coffee, Tea, Bakery)
- **product\_type** – Specific type of product (e.g., Gourmet brewed coffee, Hot chocolate)
- **product\_detail** – Detailed product description (e.g., Ethiopia Rg, Cappuccino, Dark chocolate Lg)

## Derived Variables (created for analysis)

- **Revenue** – Transaction revenue =  $\text{transaction\_qty} \times \text{unit\_price}$
- **Month** – Extracted from transaction\_date
- **Day** – Extracted from transaction\_date
- **Weekday** – Extracted from transaction\_date (1–7)
- **Hour** – Extracted from transaction\_time

# BUSINESS GOALS

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- **Optimize Marketing Strategy**

Identify top and low-performing categories/products to adjust promotions and drive revenue.

- **Evaluate Store Performance**

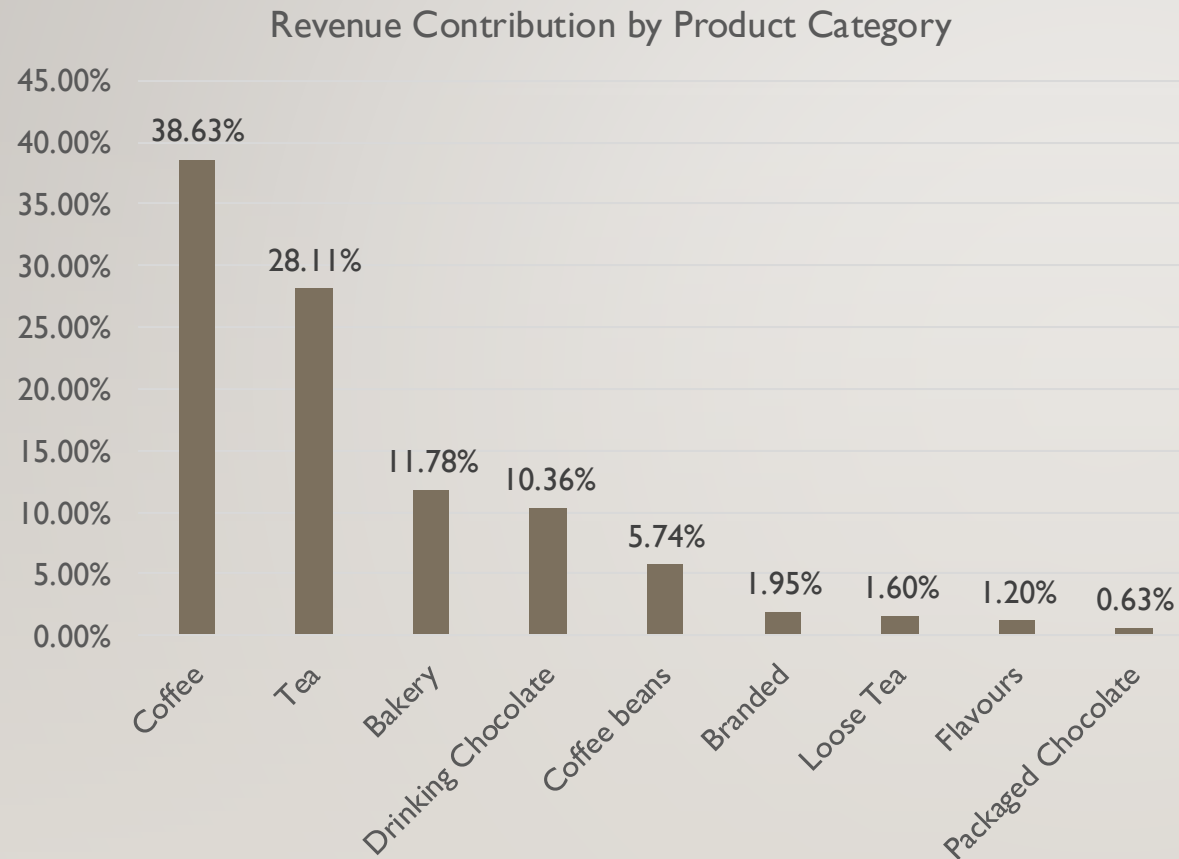
Compare revenue growth across locations to spot trends and leading stores.

- **Optimize Time-Based Operations**

Analyze peak vs. off-peak demand to align staffing and promotions.



# CATEGORY → WHAT DRIVES REVENUE OVERALL?



- ☕ Coffee & Tea ≈ 67%

**Core categories, prioritize promotion**

- 🍰 Bakery & Chocolate

**Use for cross-selling to raise basket size**

- 📦 Low-performing (<6%)

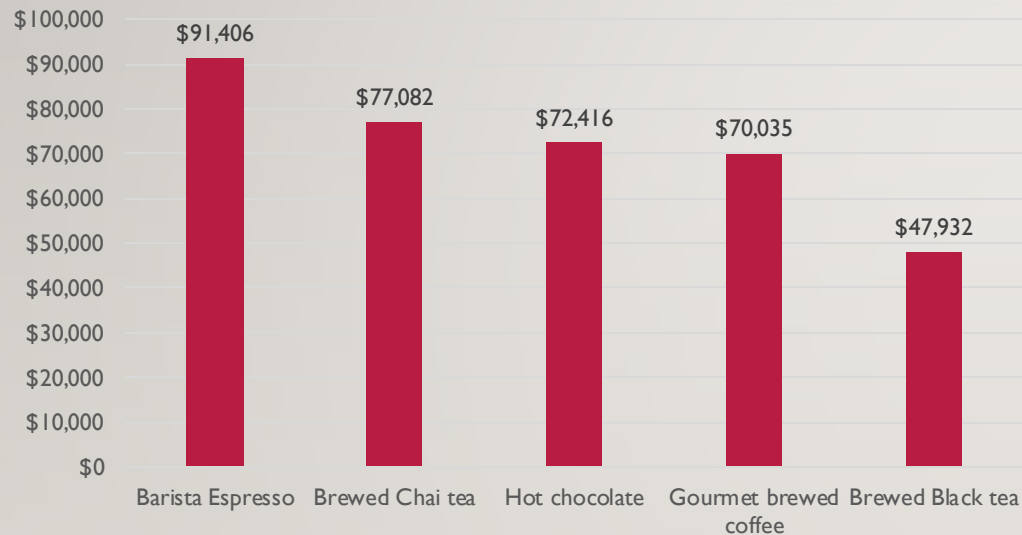
**Reposition, reprice, or streamline**



# PRODUCT → WHICH PRODUCTS TO PROMOTE OR IMPROVE?

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Top 5 Best-Selling Products by Revenue



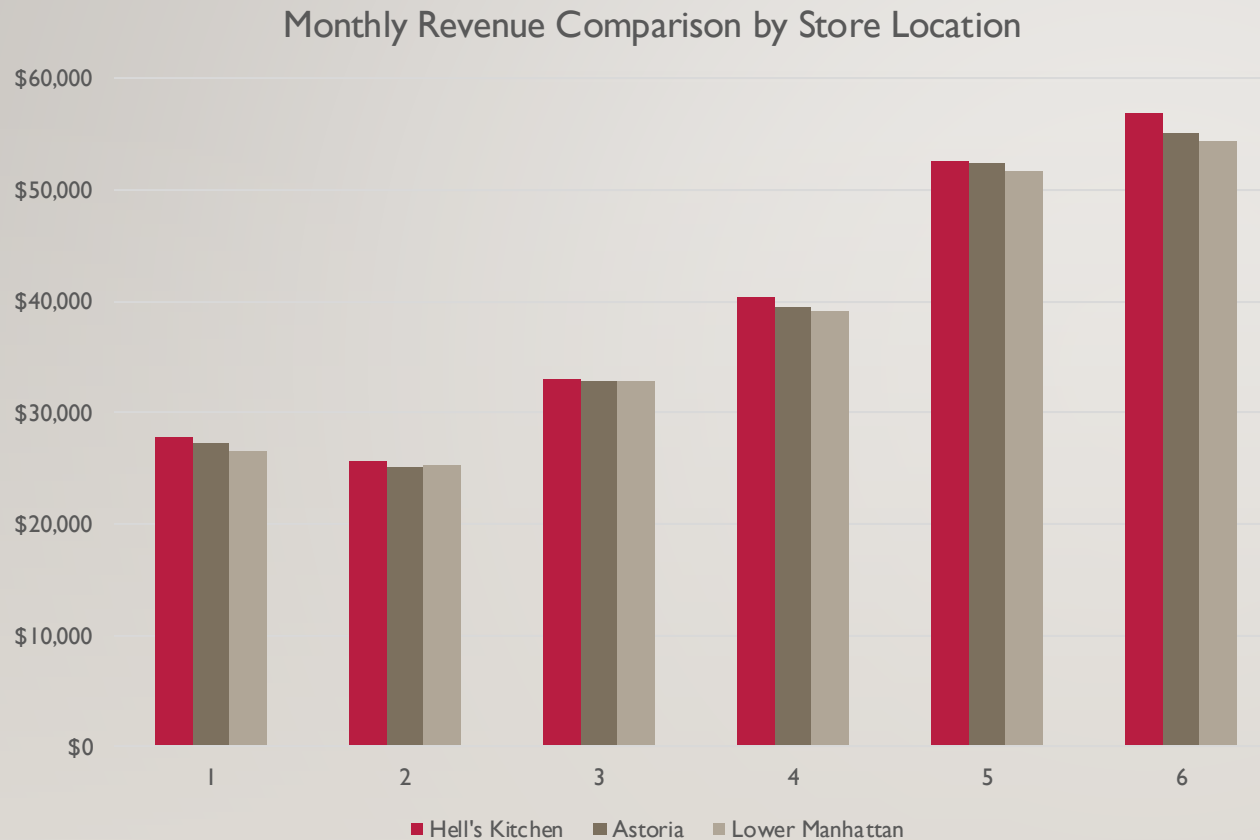
Bottom 5 Lowest-Selling Products by Revenue



🌟 Top sellers → keep as core, use bundles to boost sales

⚠️ Low sellers → test niche/seasonal promos or discontinue

# LOCATION → WHICH STORE PERFORMS BETTER OVER TIME?

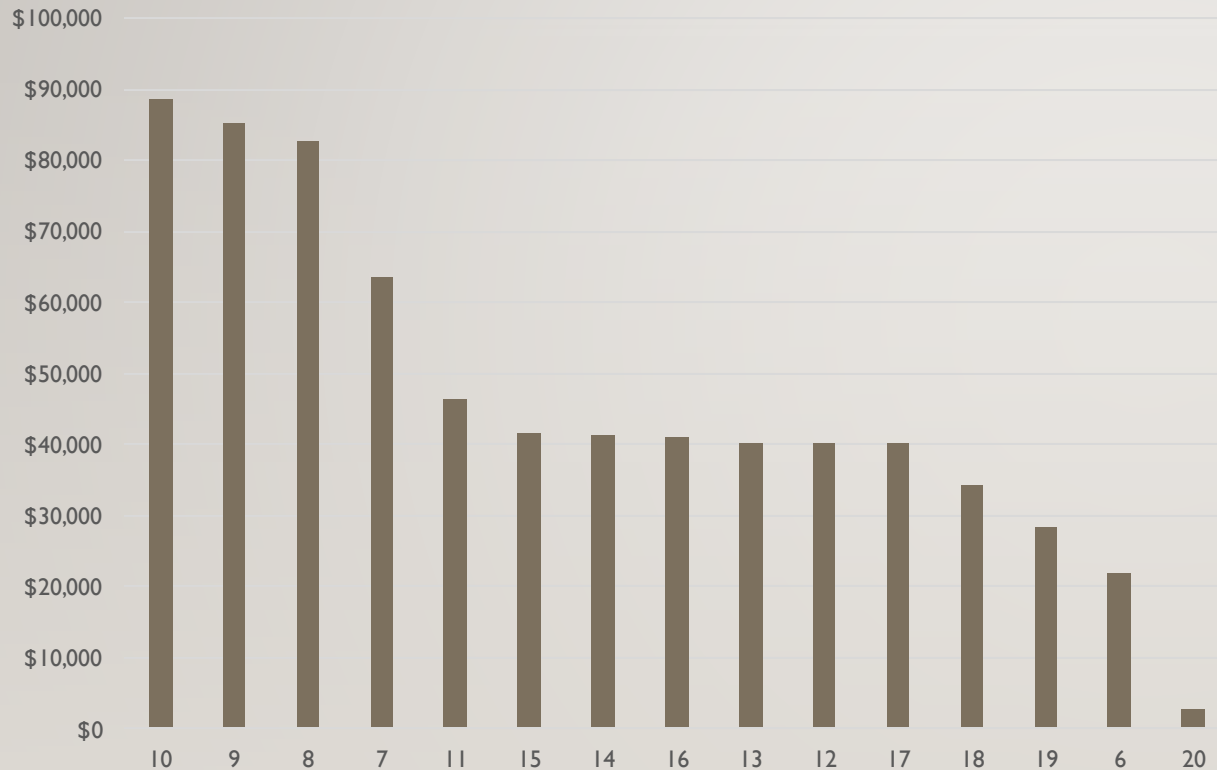


🏙️ All stores show steady growth → consistent demand across locations.

📊 Hell's Kitchen leads slightly → consider replicating its strategies in other stores.

# TIME → WHEN DO CUSTOMERS BUY MOST?

Overall Hourly Sales Pattern



Peak demand in morning (8–10 AM) → target promotions & staffing during rush hours.



Afternoon/evening sales drop → consider happy-hour deals to boost off-peak traffic.