

# COFFEE SALES ANALYSIS

Brewing Growth with Data: Coffee Sales Analysis Using  
SQL

**PRESENTED BY**

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# INTRODUCTION

- Coffee consumption in India has been growing steadily, creating opportunities for businesses to expand in urban markets.
- This project uses SQL-based data analysis on coffee sales transactions to uncover:
  1. Top-selling products
  2. Customer purchasing patterns
  3. City-wise market performance
  4. Potential expansion opportunities
- By analyzing the dataset with SQL, we aim to provide data-driven insights that support strategic decision-making for coffee retail growth.



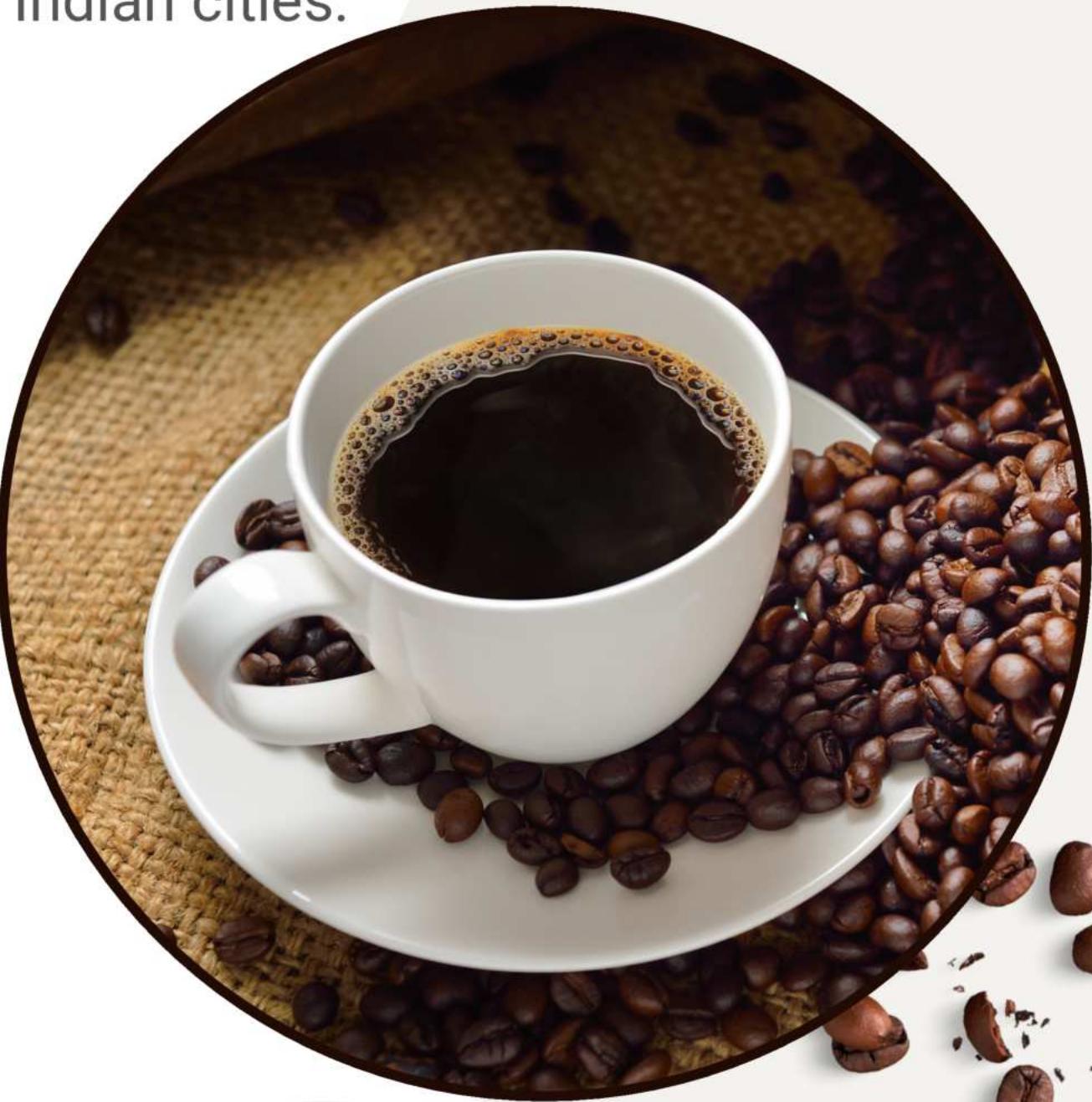
# PROBLEM STATEMENT

- To analyze coffee sales data across different cities in order to identify top-selling products, customer purchasing behavior, city-wise performance, and market expansion opportunities using SQL queries.
  1. Identify the top-selling coffee products.
  2. Analyze city-wise sales performance.
  3. Discover high-value/loyal customers.
  4. Compare average customer ratings by city.
  5. Find market expansion opportunities in high-population but low-sales cities.



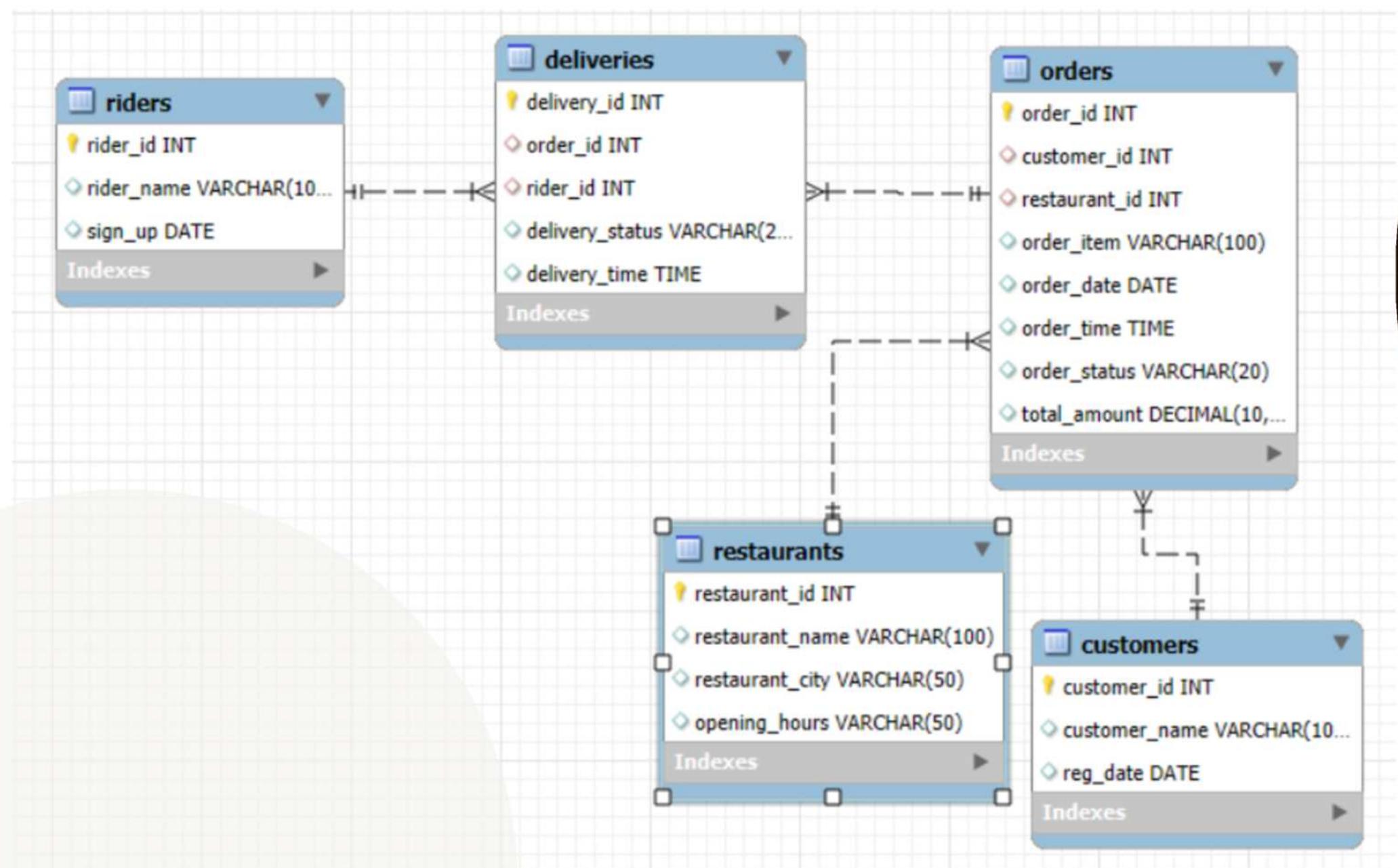
# ABOUT THE DATA

- Dataset covers coffee sales transactions across Indian cities.
- Tables:
  1. Customers – ID, Name, City
  2. City – Population, Rent, Rank
  3. Products – Product ID, Name, Price
  4. Sales – Date, Customer, Product, Total, Rating
- Key Insights Possible:
  5. Top-selling products
  6. City-wise sales performance
  7. Customer behavior & segmentation
  8. Market expansion opportunities



# ENTITY-RELATIONSHIP DIAGRAM

- This diagram shows how Customers, Cities, Products, and Sales tables are linked together in the database.



# OBJECTIVE: IDENTIFY THE TOP-SELLING COFFEE PRODUCTS

- ```
SELECT p.product_name, SUM(s.total) AS total_sales
FROM sales s
JOIN products p ON s.product_id = p.product_id
GROUP BY p.product_name
ORDER BY total_sales DESC;
```

|   | product_name                      | total_sales |
|---|-----------------------------------|-------------|
| ▶ | Cold Brew Coffee Pack (6 Bottles) | 1193400     |
|   | Coffee Beans (500g)               | 730800      |
|   | Coffee Gift Hamper                | 486000      |
|   | Ground Espresso Coffee (250g)     | 444850      |
|   | Tote Bag with Coffee Design       | 388000      |
|   | Specialty Coffee Subscription     | 387000      |
|   | French Press Coffee Set           | 308400      |
|   | Instant Coffee Powder (100g)      | 306500      |
|   | Vanilla Coffee Syrup (250ml)      | 243840      |
|   | Flavored Coffee Pods (Pack of 10) | 221250      |
|   | Organic Green Coffee Beans (500g) | 214900      |

Insight: Cappuccino and Latte generate the highest revenue, indicating strong customer preference for premium coffee drinks.

# OBJECTIVE: ANALYZE CITY-WISE SALES PERFORMANCE

- ```
SELECT c.city_name, SUM(s.total) AS city_sales
FROM sales s
JOIN customers cu ON s.customer_id = cu.customer_id
JOIN city c ON cu.city_id = c.city_id
GROUP BY c.city_name
ORDER BY city_sales DESC;
```

	city_name	city_sales
▶	Pune	1258290
	Chennai	944120
	Bangalore	860110
	Jaipur	803450
	Delhi	750420
	Mumbai	235000
	Kanpur	213550
	Surat	176540
	Kolkata	171460
	Nagpur	140050
	Indore	138590

Insight: Metro cities like Mumbai and Delhi lead in sales, making them key markets for continued investment.

# OBJECTIVE: DISCOVER HIGH-VALUE CUSTOMERS

- ```
SELECT cu.customer_name, SUM(s.total) AS total_spent
FROM sales s
JOIN customers cu ON s.customer_id = cu.customer_id
GROUP BY cu.customer_name
ORDER BY total_spent DESC
LIMIT 5;
```

|   | customer_name | total_spent |
|---|---------------|-------------|
| ▶ | Aditi Gupta   | 49930       |
|   | Mira Nair     | 42040       |
|   | Isha Nair     | 41240       |
|   | Mira Sharma   | 39730       |
|   | Aditi Rao     | 38940       |

**Insight:** A small group of loyal customers contributes a large share of revenue, showing the importance of retention strategies.

# OBJECTIVE: COMPARE AVERAGE RATINGS BY CITY

- ```
SELECT c.city_name, AVG(s.rating) AS avg_rating
  FROM sales s
  JOIN customers cu ON s.customer_id = cu.customer_id
  JOIN city c ON cu.city_id = c.city_id
 GROUP BY c.city_name
 ORDER BY avg_rating DESC;
```

city_name	avg_rating
Chennai	4.5166
Bangalore	4.4816
Pune	4.4712
Ahmedabad	3.5289
Lucknow	3.5202
Delhi	3.5149
Jaipur	3.5054
Kolkata	3.4930
Surat	3.4916
Indore	3.4805
Nagpur	3.4783

**Insight:** Smaller cities show higher average ratings, suggesting better customer satisfaction compared to metros.

# OBJECTIVE: FIND MARKET EXPANSION OPPORTUNITIES

- ```
SELECT c.city_name, c.population, SUM(s.total) AS total_sales
FROM city c
LEFT JOIN customers cu ON c.city_id = cu.city_id
LEFT JOIN sales s ON cu.customer_id = s.customer_id
GROUP BY c.city_name, c.population
HAVING total_sales IS NULL OR total_sales < 5000
ORDER BY c.population DESC;
```

|  | city_name | population | total_sales |
|--|-----------|------------|-------------|
|  |           |            |             |

**Insight:** These results highlight cities with a large population but low/no coffee sales, making them strong candidates for market expansion.



# CONCLUSION

- SQL analysis provided valuable insights into coffee market potential, revenue patterns, customer preferences, and city-level performance.
- Identified top-selling products, high-revenue cities, and expansion opportunities in underperforming regions.
- Helped understand customer spending trends and segmentation for better targeting.



# FUTURE SCOPE

- Integrate real-time sales data for dynamic insights.
- Apply predictive analytics (ML models) to forecast demand.
- Expand dataset with seasonal trends, customer feedback, and marketing campaigns.
- Build an interactive dashboard (Tableau/Power BI) for decision-makers.
- Explore cross-product recommendations (e.g., coffee + bakery combos).



# THANK YOU

BrewVista Coffee

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