



BrewVista Coffee

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

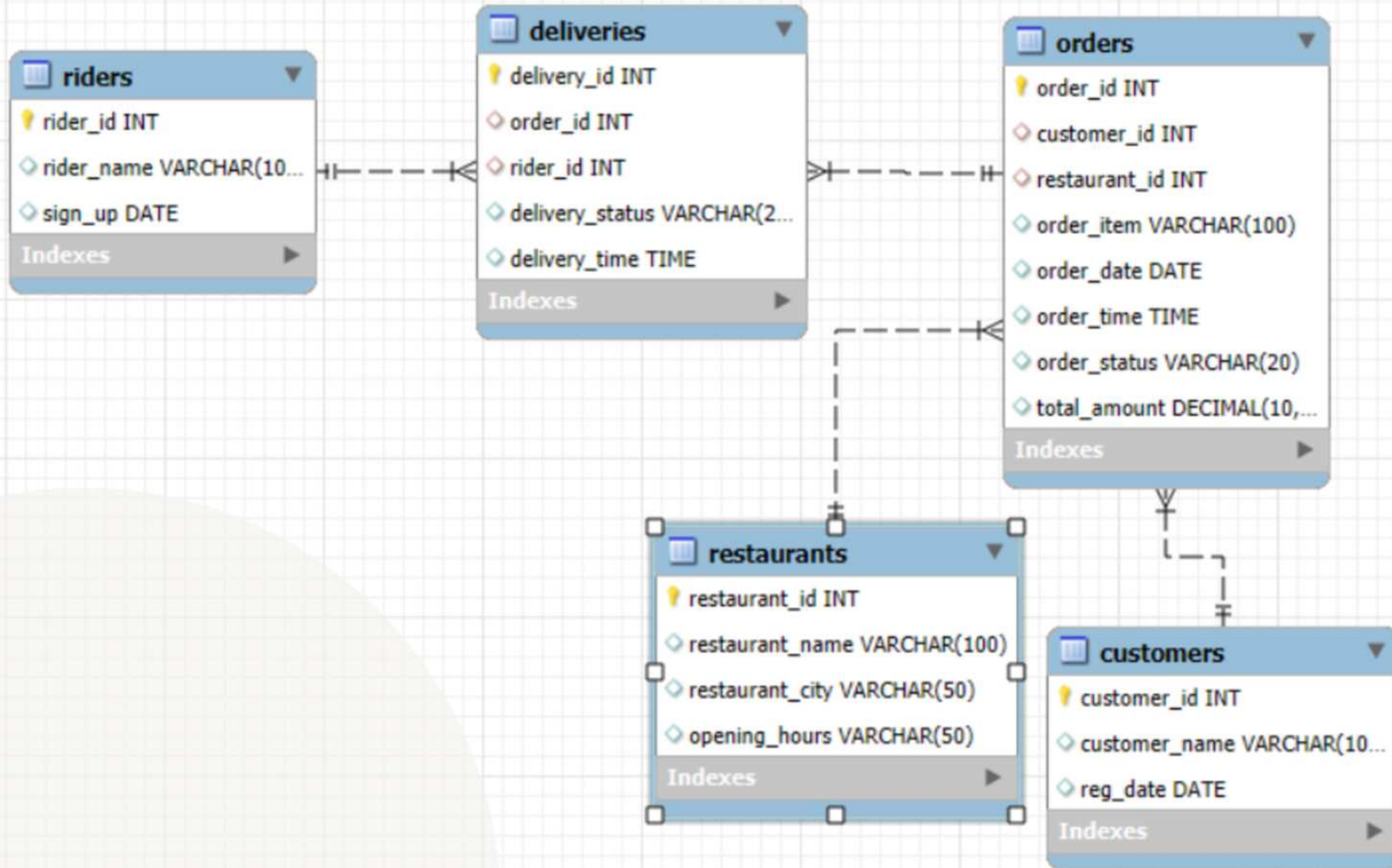
- Key Insights Possible:

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

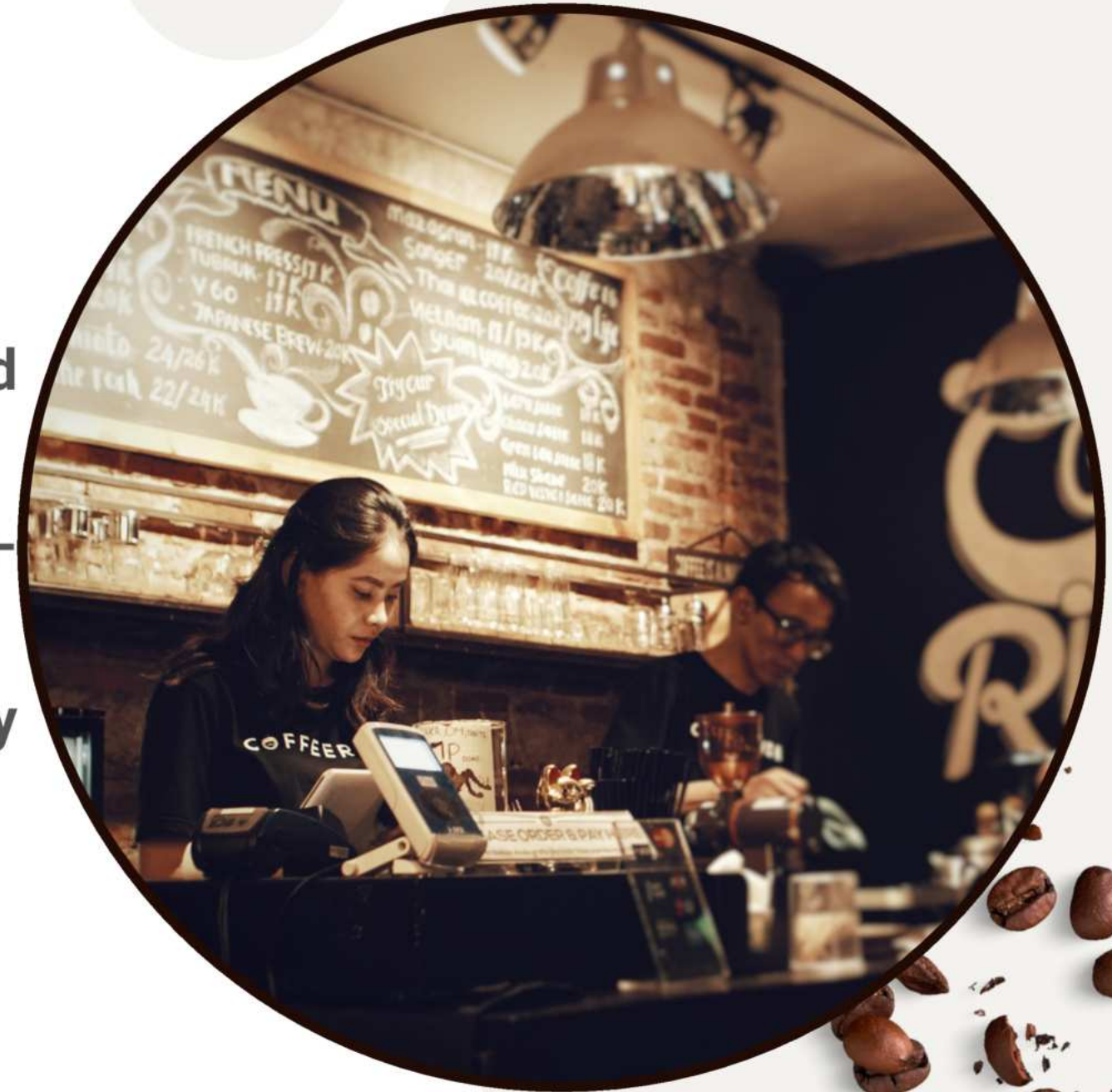
- SQL analysis provided valuable insights into coffee market potential, revenue patterns, customer preferences, and city-level performance.
- Identified top-selling products, high-revenue cities, and expansion opportunities in underperforming regions.
- Helped understand customer spending trends and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







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# THANK YOU

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