



Zomato Food Sales Analysis Using SQL

Project Overview

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This project is an **SQL-based data analysis** project built on a Zomato-like food delivery database.

The main goal is to analyze **customers, restaurants, orders, menu items, reviews, and deliveries** to extract meaningful business insights that can help a food delivery company take data-driven decisions.

The project demonstrates how **SQL is used in real-world business scenarios**, especially in food-tech platforms like Zomato or Swiggy.

Objectives

- Understand **customer ordering behavior**
- Analyze **restaurant performance**
- Identify **top customers and high-performing restaurants**
- Evaluate **menu pricing and popular food items**
- Analyze **delivery performance and customer ratings**
- Strengthen hands-on SQL skills using real-life questions

Tools & Technologies Used

- **Database:** MySQL
- **Language:** SQL

- **Concepts Used:**
 - JOINS (INNER, LEFT)
 - GROUP BY & HAVING
 - Aggregate Functions (SUM, AVG, COUNT)
 - Subqueries
 - Filtering & Sorting
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Key Focus Areas

- Customer Behavior Analysis
 - Restaurant Performance Evaluation
 - Order & Revenue Analysis
 - Menu Item Pricing Analysis
 - Customer Reviews & Ratings
 - Delivery Performance
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❓ Business Questions Solved

◆ Basic Level

- List all restaurants with their city and cuisine type

BASIC : 01

Q. List all restaurants along with their city and cuisine type.

ANSWER:

```
SELECT name,city,cuisine_type  
FROM restaurants;
```

	name	city	cuisine_type
▶	Spice Hub	Gurgaon	North Indian
	Pizza Town	Delhi	Italian
	Dragon Wok	Noida	Chinese
	Burger Point	Gurgaon	Fast Food
	Royal Dine	Delhi	Mughlai
	Green Leaf	Noida	Veg
	Tandoori Nights	Gurgaon	North Indian

- Identify customers from a specific city (e.g., Gurgaon)

BASIC : 02

Q. Show all customers who belong to Gurgaon.

ANSWER:

```
SELECT first_name, last_name, city  
FROM customers  
WHERE city='Gurgaon';
```



	first_name	last_name	city
▶	Rohit	Verma	Gurgaon
	Ankit	Yadav	Gurgaon
	Kunal	Jain	Gurgaon
	Ritu	Agarwal	Gurgaon
	Kriti	Bansal	Gurgaon

- Find menu items priced above ₹200

BASIC : 03

Q. Display all menu items costing more than ₹200.

ANSWER:

```
SELECT item_name, price, category
FROM menu_items
WHERE price > 200
ORDER BY price DESC;
```



item_name	price	category
Grilled Fish	450	Main Course
Tandoori Chicken	400	Starter
Margherita Pizza	350	Pizza
Chicken Biryani	320	Main Course
White Sauce Pasta	300	Pasta
Paneer Butter Masala	280	Main Course
Chilli Chicken	260	Starter

- Fetch successfully delivered orders

BASIC : 04

Q. Show all orders that have been successfully delivered.

ANSWER:

```
SELECT order_id, total_amount, order_status
FROM orders
WHERE order_status = 'delivered';
```



order_id	total_amount	order_status
1	560	Delivered
2	350	Delivered
4	180	Delivered
5	640	Delivered
7	400	Delivered
8	300	Delivered
10	210	Delivered

- Get all deliveries with 5-star ratings

BASIC : 05

Q. List all deliveries that received a 5-star rating.

ANSWER:

```
SELECT delivery_person, delivery_duration_min, delivery_rating
FROM deliveries
WHERE delivery_rating = 5;
```

Result Grid	Filter Rows:	Exports
delivery_person	delivery_duration_min	delivery_rating
Ramesh	30	5
Rohit	25	5
Karan	35	5
Manoj	27	5
Deepak	22	5
Lokesh	40	5
Ravi	24	5

♦ Intermediate Level

- Show all customers along with their orders (including customers with no orders)

Intermediat : 01

Q. Show all customers along with their orders, including customers who have not placed any order.

Answer:

```
SELECT c.customer_id, c.first_name, c.last_name, o.order_id, o.total_amount
FROM customers c
LEFT JOIN orders o
ON c.customer_id=o.customer_id;
```

Result Grid	Filter Rows:	Export:		
customer_id	first_name	last_name	order_id	total_amount
1	Amit	Sharma	1	560
2	Rohit	Verma	2	350
3	Neha	Singh	3	220
4	Pooja	Gupta	4	180
5	Ankit	Yadav	5	640
6	Simran	Kaur	6	250
7	Rahul	Mehta	7	400

- Display order details with customer and restaurant names

Intermediate : 02

Q. **Display order details with customer name and restaurant name.**

Answer:

```
SELECT o.order_id,
       CONCAT(c.first_name, " ", c.last_name) AS customer_name,
       r.name AS restaurant_name,
       o.total_amount
  FROM orders o
 JOIN customers c ON o.customer_id = c.customer_id
 JOIN restaurants r ON o.restaurant_id = r.restaurant_id;
```

Result Grid				
	order_id	customer_name	restaurant_name	total_amount
▶	1	Amit Sharma	Spice Hub	560
	2	Rohit Verma	Pizza Town	350
	3	Neha Singh	Dragon Wok	220
	4	Pooja Gupta	Burger Point	180
	5	Ankit Yadav	Royal Dine	640
	6	Simran Kaur	Green Leaf	250
	7	Rahul Mehta	Tandoori Nights	400

- Find total orders placed by each restaurant

INTERMEDIATE : 03

Q. **Find the total number of orders placed for each restaurant.**

Answer:

```
SELECT r.name, COUNT(o.order_id) AS total_orders
  FROM restaurants r
 LEFT JOIN orders o
    ON r.restaurant_id=o.restaurant_id
 GROUP BY r.name;
```

Result Grid		
	name	total_orders
▶	Spice Hub	1
	Pizza Town	1
	Dragon Wok	1
	Burger Point	1
	Royal Dine	1
	Green Leaf	1
	Tandoori Nights	1

- Calculate average rating of each restaurant

Intermediate : 04

Q. FIND THE AVERAGE RATING OF EACH RESTAURANT.

Answer:

```
SELECT r.name, ROUND(AVG(rv.rating),2) AS avg_rating
FROM restaurants r
JOIN reviews rv
ON r.restaurant_id = rv.restaurant_id
GROUP BY r.name;
```

	name	avg_rating
▶	Spice Hub	5.00
	Pizza Town	4.00
	Dragon Wok	4.00
	Burger Point	3.00
	Royal Dine	5.00
	Green Leaf	4.00
	Tandoori Nights	5.00

- Identify top 3 restaurants based on number of reviews

Intermediate : 05

Q. Show the top 3 restaurants based on the number of reviews.

Answer:

```
SELECT restaurant_id, COUNT(review_id) AS total_review
FROM reviews
GROUP BY restaurant_id
ORDER BY total_review DESC
LIMIT 3;
```

	restaurant_id	total_review
▶	1	1
	2	1
	3	1

◆ Advanced Level

- Find the customer with the **highest total spending**

ADVANCED : 01

Q. **Find the customer who has spent the highest total amount on orders.**

ANSWER:

```
SELECT
    c.customer_id, CONCAT(c.first_name, " ", c.last_name) AS customer_name,
    sum(o.total_amount) AS total_spent
FROM customers c
JOIN orders o ON c.customer_id = o.customer_id
WHERE o.order_status = 'Delivered'
GROUP BY c.customer_id
ORDER BY total_spent DESC
LIMIT 1;
```

	customer_id	customer_name	total_spent
▶	5	Ankit Yadav	640

- List restaurants receiving **above-average reviews**

ADVANCED : 02



Q. **List the restaurants that have received more reviews than the average number of reviews per restaurant.**

ANSWER:

```
SELECT r.name, COUNT(rv.review_id) AS total_review
FROM restaurants r
JOIN reviews rv ON r.restaurant_id = rv.restaurant_id
GROUP BY r.name
HAVING COUNT(rv.review_id) >= (
    SELECT ROUND(AVG(review_count),2)
    FROM (
        SELECT COUNT(review_id) AS review_count
        FROM reviews
        GROUP BY restaurant_id
    ) AS sub
);
```

	name	total_review
▶	Spice Hub	1
	Pizza Town	1
	Dragon Wok	1
	Burger Point	1
	Royal Dine	1



- Identify the **most expensive menu item** in each restaurant

ADVANCED : 03

Q. Find the most expensive menu item(s) in each restaurant.

ANSWER:

```
SELECT r.name AS restaurant_name, mi.item_name, mi.price
FROM menu_items mi
JOIN restaurants r ON mi.restaurant_id = r.restaurant_id
WHERE mi.price = (
    SELECT MAX(price)
    FROM menu_items
    WHERE restaurant_id = mi.restaurant_id
);
```

	restaurant_name	item_name	price
▶	Spice Hub	Paneer Butter Masala	280
	Pizza Town	Margherita Pizza	350
	Dragon Wok	Hakka Noodles	220
	Burger Point	Cheese Burger	180
	Royal Dine	Chicken Biryani	320



Insights Generated

- High-value customers contributing maximum revenue
- Top-performing restaurants based on orders and ratings
- Pricing patterns of premium menu items
- Delivery quality based on customer ratings



Learning Outcomes

- Improved understanding of **SQL for analytics**
- Hands-on experience with **real-world business queries**
- Ability to translate **business problems into SQL queries**
- Strong foundation for **Data Analyst / SQL Analyst roles**



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