

In-Depth Analysis of Swiggy's SQL Dataset

Insights and Strategic Decision-Making

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Introduction

- Brief overview of Swiggy's dataset
- Importance of SQL queries in extracting business insights.
- Type of analysis covered : Revenue , Customer Retention , Restaurant performance , etc

Read More

SWIGGY
DATA
ANALYSIS
USING
SQL





BON APPETIT
CAFE/ITALIAN CUISINE



PENNE IN TOMATO CHEESE SAUCE

MEXICAN NACHOS



BERRY MERRY
(WAFFLES + STRAWBERRY + WHIPPED CREAM)

CORN & OLIVE SANDWICH
(UNGRILLED)

CHICKEN & JALAPENO SANDWICH
(UNGRILLED)

CHOC-O-BLOCK
(WAFFLES + CHOC SAUCE + WHIPPED CREAM + CHOCO CHIPS)

CHOC-O-BERRY
(WAFFLES + CHOC SAUCE + WHIPPED CREAM + STRAWBERRY)

NUTELLA MONKEY
(WAFFLES + BANANA + NUTELLA + WHIPPED CREAM)



WACKY WAFFLES
DESSERT AND FRUIT WAFFLES



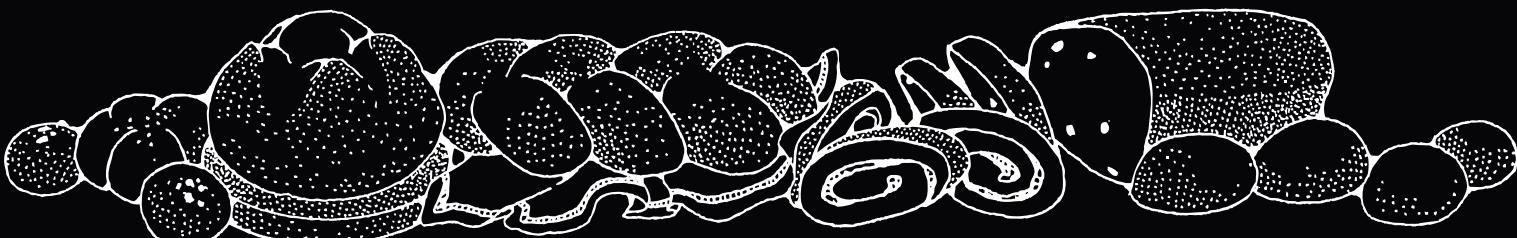
Service

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Key Questions Addressed:

- Display all customers who live in 'Delhi'.
- Find the average rating of all restaurants in 'Mumbai'.
- List all customers who have placed at least one order.
- Display the total number of orders placed by each customer.
- Find the total revenue generated by each restaurant.
- Find the top 5 restaurants with the highest average rating.
- Display all customers who have never placed an order.
- Find the number of orders placed by each customer in 'Mumbai'.
- Display all orders placed in the last 30 days.
- List all delivery partners who have completed more than 1 delivery
- Find the customers who have placed orders on exactly three different days.
- Find the delivery partner who has worked with the most different customers.
- Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.



- Display all customers who live in 'Delhi'.

SELECT

*

FROM

customers

WHERE

city = 'Delhi';



Result

Result Grid						
		Filter Rows:		Edit:		Export/Import:
customer_id	name	email	phone_number	city	address	
2	Rohini Verma	rohini.verma@yahoo.com	9823456789	Delhi	B-23, Saket	
5	Manish Kumar	NULL	9834567890	Delhi	D-45, Lajpat Nagar	
18	Sonali Mishra	NULL	9878345678	Delhi	N-54, Karol Bagh	
NULL	NULL	NULL	NULL	NULL	NULL	

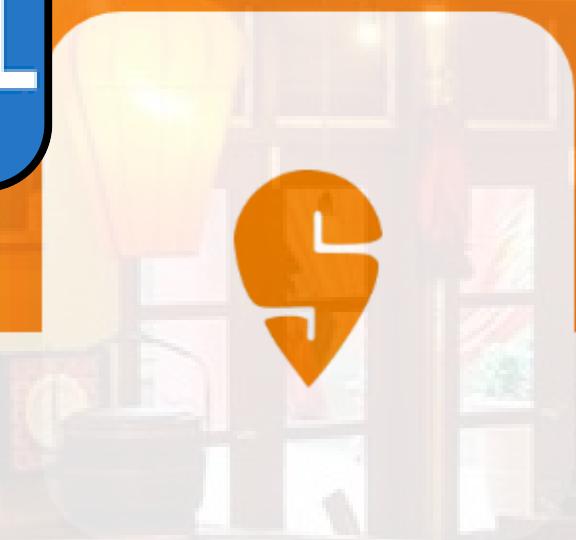


Delhi Special



- Find the average rating of all restaurants in 'Mumbai'.

```
SELECT  
    AVG(rating)  
FROM  
    restaurants  
WHERE  
    city = 'mumbai';
```



SWIGGY

FOOD DELIVERY APP



Result

Result Grid	
	AVG(rating)
▶	4.30000

- *List all customers who have placed at least one order.*

```
SELECT DISTINCT  
    customers.name  
FROM  
    customers  
        JOIN  
    orders ON customers.customer_id = orders.customer_id;
```



Result

name
Amit Sharma
Rohini Verma
Rajesh Gupta
Sneha Mehta
Manish Kumar
Priya Singh
Vikas Reddy



- Display the total number of orders placed by each customer.

Guess Estimate

Number of orders delivered
by Swiggy per hour in India



```
SELECT  
    customers.name, COUNT(orders.order_id) AS total_orders  
FROM  
    customers  
    LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
GROUP BY customers.name;
```



Result

	name	total_orders
▶	Amit Sharma	2
	Rohini Verma	3
	Rajesh Gupta	3
	Sneha Mehta	2
	Manish Kumar	4
	Priya Singh	3
	Vikas Reddy	3

- Find the total revenue generated by each restaurant.

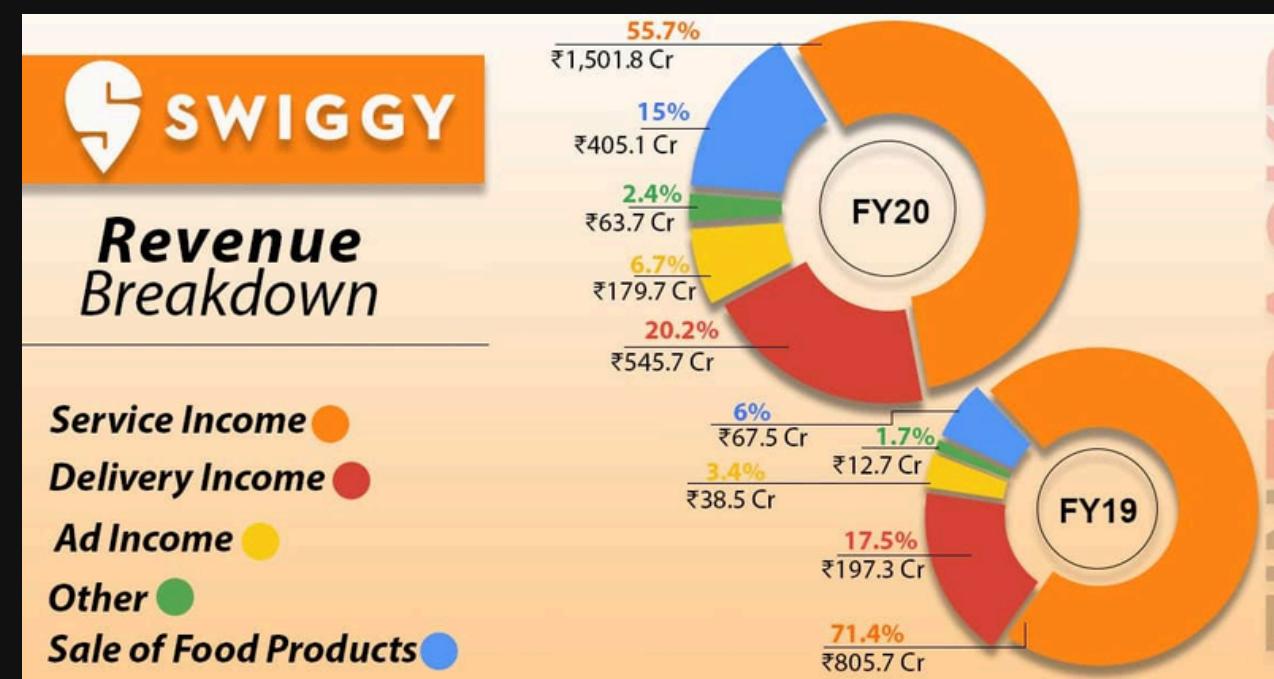


```

SELECT
    restaurants.name, SUM(orders.total_amount)
FROM
    restaurants
    LEFT JOIN
    orders ON orders.customer_id = restaurants.restaurant_id
GROUP BY restaurants.name;
  
```

Result

	name	sum(orders.total_amount)
▶	Spice of India	1250.00
	Tandoori Flames	2100.00
	Biryani House	1600.00
	Curry Pot	1600.00
	Taste of Punjab	4450.00
	Royal Biryani	2400.00
	Coastal Delight	2650.00



TOP 5 RESTAURANTS



- Find the top 5 restaurants with the highest average rating.

SELECT

name, rating

FROM

restaurants

ORDER BY rating DESC

LIMIT 5;

Result

	name	rating
▶	Biryani House	4.80
	Paradise Biryani	4.80
	Lucknowi Nawabi	4.70
	Royal Biryani	4.70
	Flavours of Bengal	4.60



- Display all customers who have never placed an order.

```
SELECT DISTINCT  
    customers.name  
FROM  
    customers  
        LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
WHERE  
    orders.order_id IS NULL;
```



Your Cart Is Empty



Result

name
Sonal Kaur
Vivek Malhotra
Divya Iyer
Rakesh Yadav
Mona Sharma
Sudha Pillai
Gaurav Khanna

- Find the number of orders placed by each customer in 'Mumbai'.

```
SELECT  
    customers.name, COUNT(orders.order_id)  
FROM  
    customers  
    LEFT JOIN  
    orders ON customers.customer_id = orders.customer_id  
WHERE  
    customers.city = 'mumbai'  
GROUP BY customers.name;
```



Result

name	count(orders.order_id)
Amit Sharma	2
Rajesh Gupta	3
Arjun Desai	2
Ravi Singh	2

IT'S TIME TO TASTE



- *Display all orders placed in the last 30 days.*



```
SELECT
  *
FROM
  orders
WHERE
  order_date >= DATE_SUB(CURDATE(), INTERVAL 30 DAY);
```



30

Result

order_id	customer_id	restaurant_id	order_date	total_amount	status
4	4	7	2024-08-01 00:00:00	850.00	Completed
5	5	2	2024-08-03 00:00:00	1200.00	Completed
6	1	4	2024-08-06 00:00:00	500.00	Processing
7	6	8	2024-08-03 00:00:00	950.00	Completed
8	7	9	2024-08-08 00:00:00	700.00	Completed
9	8	6	2024-08-02 00:00:00	650.00	Completed
10	9	11	2024-08-09 00:00:00	0.00	Cancelled

days



- *List all delivery partners who have completed more than 1 delivery*

SELECT

`deliverypartners.name, COUNT(orderdelivery.order_id)`

FROM

`deliverypartners`

JOIN

`orderdelivery ON deliverypartners.partner_id = orderdelivery.partner_id`

GROUP BY `deliverypartners.name`

HAVING `COUNT(orderdelivery.order_id) > 1;`

SQL

Result

name	count(orderdelivery.order_id)
Suresh Reddy	6
Anita Desai	4
Ravi Kumar	5
Rajesh Gupta	4
Priya Patel	3
Sneha Iyer	2
Amit Sharma	2

- Find the customers who have placed orders on exactly three different days.

```
SELECT  
    customers.name  
FROM  
    customers  
        JOIN  
    orders ON customers.customer_id = orders.customer_id  
GROUP BY customers.name  
HAVING COUNT(DISTINCT orders.order_date) = 3;
```



Result

name
Anjali Patel
Ashok Kumar
Nidhi Saxena
Priya Singh
Rohini Verma
Sonali Mishra



- Find the delivery partner who has worked with the most different customers.

```
SELECT
    deliverypartners.partner_id,
    deliverypartners.name,
    COUNT(DISTINCT orders.customer_id) diff_customers
FROM
    deliverypartners
        JOIN
    orderdelivery ON deliverypartners.partner_id = orderdelivery.partner_id
        JOIN
    orders ON orderdelivery.order_id = orders.order_id
GROUP BY deliverypartners.partner_id , deliverypartners.name
ORDER BY diff_customers DESC
LIMIT 1;
```

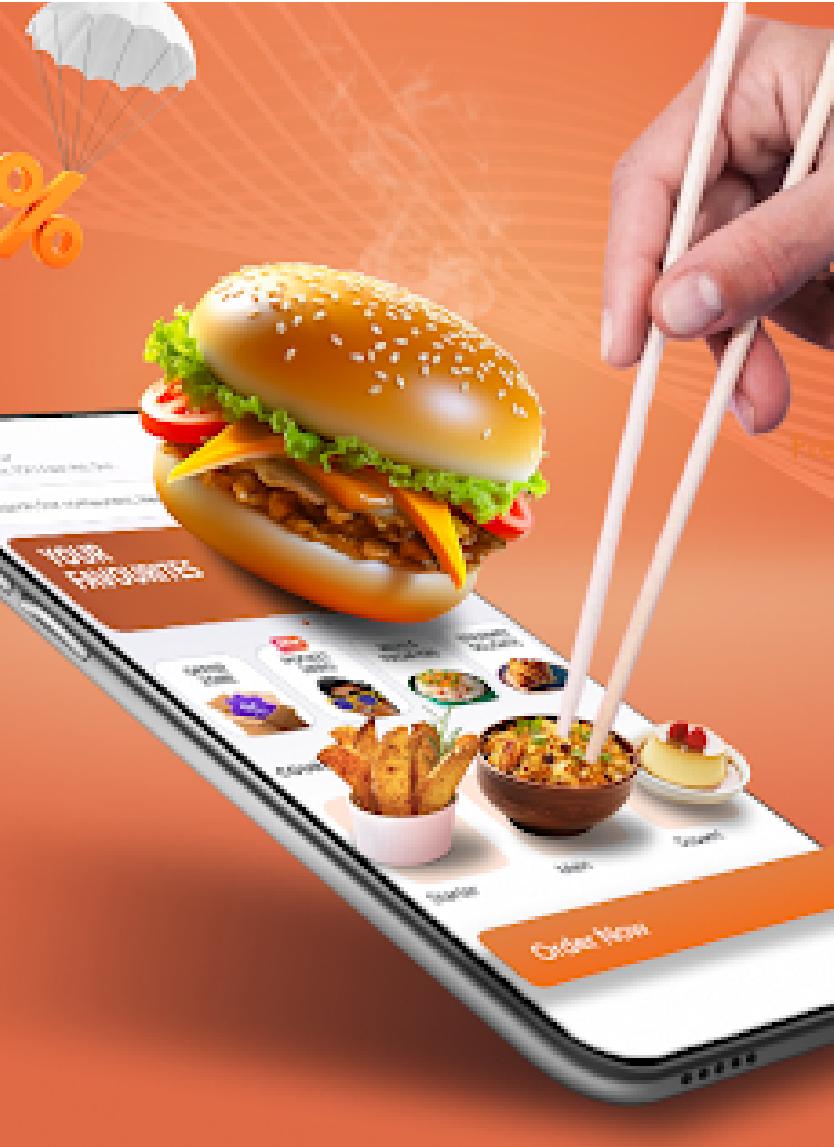
SQL

Result

partner_id	name	diff_customers
4	Suresh Reddy	6



swiggy



- *Identify customers who have the same city and have placed orders at the same restaurants, but on different dates.*

```
Select distinct c1.name AS customer1,c2.name AS customer1,
c1.city, r.name AS restaurant, o1.order_date,o2.order_date AS order_date2
from customers c1
join orders o1 ON C1.Customer_id = o1.customer_id
join orders o2 ON o1.restaurant_id = o2.restaurant_id
join customers c2 ON C1.city = c2.city
AND C1.customer_id <> c2.customer_id
AND o2.customer_id = c2.customer_id
join restaurants r ON o1.restaurant_id = r.restaurant_id
where o1.order_date <> o2.order_date
order by c1.city,r.name, o1.order_date;
```



Result

customer1	customer1	city	restaurant	order_date	order_date2
Manish Kumar	Sonali Mishra	Delhi	Biryani House	2024-08-04 00:00:00	2024-08-05 00:00:00
Sonali Mishra	Manish Kumar	Delhi	Biryani House	2024-08-05 00:00:00	2024-08-04 00:00:00
Sonali Mishra	Manish Kumar	Delhi	Biryani House	2024-08-05 00:00:00	2024-08-07 00:00:00
Manish Kumar	Sonali Mishra	Delhi	Biryani House	2024-08-07 00:00:00	2024-08-05 00:00:00
Arjun Desai	Ravi Singh	Mumbai	Veggie Delight	2024-08-03 00:00:00	2024-08-09 00:00:00
Ravi Singh	Arjun Desai	Mumbai	Veggie Delight	2024-08-09 00:00:00	2024-08-03 00:00:00



Conclusion

- *Summary of key insights from the SQL queries.*
- *How these insights can drive strategic decision-making for Swiggy.*
- *Potential next steps for deeper analysis or implementation of findings.*





Think Food.
Think Swiggy.



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