SHODWE
Pizza Resto

Swiggy Data Analyis

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SWIGGY

ABOUT US

Swiggy is one of India’s leading online food delivery platforms, founded in 2014. It connects customers with a wide range of restaurants and offers fast, reliable delivery services. Known for its user-friendly app and real-time tracking, Swiggy has expanded into grocery delivery and other hyperlocal services.

SWIGGY

Project Objective

- Your Analyze Swiggy’s customer, order, and delivery data using SQL
- Extract key business insights through advanced SQL queries
- Understand customer behavior and delivery patterns
- Present findings visually using Canva for clear communicatio
- Support data-driven decisions based on query results
- agraph text

SWIGGY

Problem statement

- 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

SWIGGY

```
select
      customer_id,name,city
 from
     swiggydb.customers
where
  city='Delhi';
```

customer_id	name	city
2	Rohini Verma	Delhi
5	Manish Kumar	Delhi
18	Sonali Mishra	Delhi

SWIGGY

Find the average rating of restaurants in'Mumbai'

```
select
    avg(rating)
from
    swiggydb.restaurants
where
    city='Mumbai';
```

avg(rating)
4.300000

all customers who have placed at least one order.

SWIGGY

```sql
select distinct
 customers.customer_id,customers.name
 from customers
 inner join
 orders on customers.customer_id=orders.customer_id;
```

customer_id	name
1	Amit Sharma
2	Rohini Verma
3	Rajesh Gupta
4	Sneha Mehta
5	Manish Kumar

Display the total number of orders placed b each customer.

SWIGGY

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

customer_id	name	total_orders
1	Amit Sharma	2
2	Rohini Verma	3
3	Rajesh Gupta	3
4	Sneha Mehta	2
5	Manish Kumar	4
6	Priya Singh	3
7	Vikas Reddy	3
8	Anjali Patel	3

Find the total revenue generated by each restaurant

SWIGGY

```
select r.restaurant_id,r.name,
sum(o.total_amount) as total_revenue
from  swiggydb.restaurants r
join
swiggydb.orders o on r.restaurant_id = o.restaurant_id
group by  r.restaurant_id,r.name
order by r.restaurant id Asc;
```

restaurant_id	name	total_revenue
1	Spice of India	1100.00
2	Tandoori Flames	1200.00
3	Biryani House	5300.00
4	Curry Pot	3200.00
5	Taste of Punjab	600.00
6	Royal Biryani	650.00
7	Coastal Delight	2100.00
8	Veggie Delight	1600.00

Find the top 5 restaurants with the highes average rating.

SWIGGY

```
select
    restaurant_id, name,
     avg(rating) as Avg_rating
from   swiggydb.restaurants
group by restaurant_id, name
order by Avg_rating DESC
limit 5;
```

restaurant_id	name	Avg_rating
3	Biryani House	4.800000
22	Paradise Biryani	4.800000
30	Lucknowi Nawabi	4.700000
6	Royal Biryani	4.700000
12	Flavours of Bengal	4.600000

Display all customers who have never placed an order

SWIGGY

```sql
select
    c.name, o.order_id from
swiggydb.customers c
left join
    swiggydb.orders o ON c.customer_id = o.customer_id
where
o.order_id is NULl;
```

customer_id	name	city
2	Rohini Verma	Delhi
5	Manish Kumar	Delhi
18	Sonali Mishra	Delhi

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

SWIGGY

```sql
select
 c.customer_id,c.name,c.city, count(o.order_id) as orders_placed
from
    swiggydb.customers c
 left join
 swiggydb.orders o ON c.customer_id = o.customer_id
 where city="Mumbai"
 group by c.customer_id,c.name,c.city;
```

customer_id	name	city	orders_placed
1	Amit Sharma	Mumbai	2
3	Rajesh Gupta	Mumbai	3
19	Arjun Desai	Mumbai	2
23	Ravi Singh	Mumbai	2

Display all orders placed in the last 30 days

SWIGGY

```sql
SELECT *
FROM
    swiggydb.orders
WHERE
  order_date >= CURDATE() - INTERVAL 30 DAY;
```

order_id	customer_id	restaurant_id	order_da
NULL	NULL	NULL	NULL

List all delivery partners who have completed more than 1 delivery

SWIGGY

```sql
select
    d.partner_id,d.name, count(o.order_id) as orders_count
from
    swiggydb.deliverypartners d
    join
    swiggydb.orderdelivery o on d.partner_id  = o.partner_id
group by  d.partner_id, d.name
having  count(o.order_id)  >1;
```

partner_id	name	orders_count
4	Suresh Reddy	6
5	Anita Desai	4
2	Ravi Kumar	5
6	Rajesh Gupta	4
3	Priya Patel	3
9	Sneha Iyer	2
1	Amit Sharma	2
7	Sonia Agarwal	3

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

SWIGGY

```sql
select
    customer_id,
    COUNT(DISTINCT DATE(order_date)) as orders_days
from
     swiggydb.orders
GROUP BY customer_id
HAVING
    COUNT(DISTINCT DATE(order_date)) = 3;
```

customer_id	orders_days
2	3
6	3
8	3
14	3
15	3
18	3

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

SWIGGY

```sql
SELECT
    d.partner_id,
    d.name,
    COUNT(DISTINCT o.customer_id) AS unique_customers
FROM
    swiggydb.deliverypartners d
JOIN
    swiggydb.orderdelivery od ON d.partner_id = od.partner_i
JOIN
    swiggydb.orders o ON od.order_id = o.order_id
GROUP BY
    d.partner_id, d.name
ORDER BY
```

partner_id	name	unique_customers
4	Suresh Reddy	6

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

SWIGGY

```sql
SELECT
    c1.customer_id AS customer_1,
    c2.customer_id AS customer_2,
    c1.city,c1.name,
    o1.restaurant_id,
    DATE(o1.order_date) AS customer1_order_date,
    DATE(o2.order_date) AS customer2_order_date
FROM
    swiggydb.customers c1
JOIN
    swiggydb.orders o1 ON c1.customer_id = o1.customer_id
JOIN
    swiggydb.customers c2 ON c1.city = c2.city AND c1.customer_id < c2.customer_id
JOIN
    swiggydb.orders o2 ON c2.customer_id = o2.customer_id
WHERE
    o1.restaurant_id = o2.restaurant_id
    AND DATE(o1.order_date) <> DATE(o2.order_date);
```

customer_1	customer_2	city	name	restaurant_id	customer1_order_date	customer2_c
5	18	Delhi	Manish Kumar	3	2024-08-04	2024-08-05
19	23	Mumbai	Arjun Desai	8	2024-08-03	2024-08-09
5	18	Delhi	Manish Kumar	3	2024-08-07	2024-08-05

List all delivery partners who have completed more than 1 delivery

SWIGGY

```sql
select
  d.partner_id,d.name, count(o.order_id) as orders_count
from
  swiggydb.deliverypartners d
join
  swiggydb.orderdelivery o on d.partner_id  = o.partner_id
group by  d.partner_id, d.name
having  count(o.order_id)  >1;
```

partner_id	name	orders_count
4	Suresh Reddy	6
5	Anita Desai	4
2	Ravi Kumar	5
6	Rajesh Gupta	4
3	Priya Patel	3
9	Sneha Iyer	2
1	Amit Sharma	2
7	Sonia Agarwal	3

Key Insights

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Consumer Insights

- Identified active customers in key metro areas like Mumbai and Delhi, with some users placing orders across multiple dates—indicating strong platform loyalty.
- Detected a group of customers who have placed exactly three orders on different days, ideal for loyalty-based engagement strategies.

Resturant Performance

- Ranked restaurants by average customer rating, highlighting Biryani House and Paradise Biryani with perfect 4.8★ scores—potential benchmarks for quality.
- Calculated restaurant-level revenue, revealing Biryani House and Curry Pot as top earners with ₹5300 and ₹3200 respectively.

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Order Behavior

- Analyzed frequency of orders across customers, showing an average of 2–4 orders per customer—crucial for customer lifetime value modeling.
- Filtered orders placed in the past 30 days to uncover recent purchasing patterns.
- Tracked regional variations in order count, highlighting Mumbai as a key hub for frequent orders.

Delivery Partners

- Ranked partners based on order volume—Suresh Reddy led with 6 completed deliveries, indicating high reliability.
- Identified delivery partners with broad customer reach, enabling performance benchmarking and workload distribution.
- Highlighted patterns in delivery activity useful for resource planning and shift allocation.

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Thank You

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