Special

Zomato

Resto Food

Presentation by Mitali Gupta

introduction

Intro

Launched in 2010, Our technology platform connects customers, restaurant partners and delivery partners, serving their multiple needs.

about me

About

My name is Mitali Gupta, Data Analyst. This project focuses on analyzing Zomato's restaurant data using PostgreSQL to derive meaningful insights into restaurant trends, customer preferences, and operational efficiencie

Create Table

```
reate table zomato (
   order_id serial primary key,
   user_id varchar(10),
   cuisine varchar(15),
   dish_name   varchar(50),
   restro_id   varchar(10),
   quantity    int,
   order_date  date,
   amount  int,
   rating  float,
   city    varchar(25),
   delivery_time int,
   referrer_id varchar(10),
   refrerred_id    varchar(10),
   order_timestamp timestamp,
   sale_flag varchar(5)
```

Write an SQL query to find the top 5 most-ordered dishes from a given restaurant.

```
select dish_name,
    restro_id,
    sum(quantity)
from zomato
    where restro_id = 'R101'
group by 1,2
order by 2 desc
limit 5
```

Write a Query to Retrieve All Orders Placed in the Last 30 Days for a Specific User

```sql
select * from zomato
    where order_date >= now() - interval '30 Days'
    And
    user_id = 'U123'
```

Write a Query to Find the Total Revenue Generated by All Restaurants in the Last Month

```sql
select
    sum(amount) as "total_revenue"
    from zomato
    where order_date between '2025-02-01' and '2025-02-28'



select
    sum(amount) as "total_revenue"
    from zomato
    where order_date >= date_trunc('Month',current_date - interval '1 Month')
    and order_date < date_trunc('Month', current_date)
```

Write a Query to Retrieve the Top 10 Restaurants with the Highest Average Customer Rating

```sql
select restro_id,
    round(avg(rating::int),2) as "average_rating"
    from zomato
    group by 1
    order by 1
    limit 10
```

Write a query to List All Customers Who Have Ordered at Least One Dish from More Than 3 Different Restaurants

```sql
select user_id,
count(distinct restro_id)
from zomato
group by 1
having count(distinct restro_id) > 3
```

Write a Query to Identify Restaurants Where the Average Order Value Is Higher Than the Overall Average Order Value Across All Restaurants

```
with restro_order as
    (
select restro_id,
    avg(amount) as "restro_avg_order"
    from zomato
    group by 1),
avg_order as
    (
select avg(amount) as "total_avg_order" from zomato)

    select a.restro_id, a.restro_avg_order
    from restro_order a ,avg_order o
    where a.restro_avg_order > o.total_avg_order
```

Write a Query to Group Orders by Cuisine Type and Calculate the Total Revenue for Each Cuisine

```sql
select cuisine,
sum(amount) as "total_revenue"
from zomato
group by 1
order by 2 desc
```

Write a Query to Find the Rank of Each Restaurant Based on Total Revenue Within Each City

```sql
select city,
restro_id,
sum(amount) as "total_revenue",
rank() over(partition by city order by sum(amount) desc )
from zomato
group by 1,2
```

Categorize Restaurants into "High Revenue," "Medium Revenue," and "Low Revenue" Based on Their Monthly Sales

```sql
with cte_monthly_sale as
    (
select restro_id,
    To_char(order_date, 'Month') as "Month",
    sum(amount) as "total_sale"
    from zomato
    group by 1,2
    order by 1)

    select *,
            CASE
                WHEN total_sale < 300 THEN 'Low Revenue'
                WHEN total_sale BETWEEN 300 AND 500 THEN 'Medium Revenue'
                ELSE 'High Revenue'
            END
    from cte_monthly_sale
```

Write a Query to Find the Top 3 Dishes Sold for Each Restaurant in a Specific City

```sql
select  * from
    (select
    restro_id,
    dish_name,
    city,
    sum(quantity),
    rank() over(partition by city order by sum(quantity) desc) as "ranking"
    from zomato
    group by 1,2,3)
where city = 'Indore'
limit 3
```

Use a CTE to Calculate the Monthly Active Users and Their Most Ordered Dish for the Past 6 Months

```sql
with cte_recent_order as
    (select user_id,
    dish_name,
    order_date,
    count(*) as "order_count"
    from zomato
    where order_date >= now() - interval '6 Months'
    group by 1,2,3),

most_order as
    (select user_id ,
    dish_name ,
    order_date,
    rank() over(partition by user_id)
    from zomato)

    select user_id,
    order_date,
    dish_name
    from most_order
    where rank = 1
```

Write a Query to Retrieve the Top 5 Restaurants With the Fastest Average Delivery Time

```sql
select restro_id,
    round(avg(delivery_time),2) as "avg_delivery_time"
    from zomato
    group by 1
    order by 2 desc
    limit 5
```

Write a Query to Identify Customers Who Have Not Placed Any Orders in the Last 6 Months But Were Active in the Previous 6 Months

```sql
with cte_last_6_month as
    (
    select user_id,
    order_date
    from zomato
    where order_date >= now() - interval '6 Months'),

cte_previous_6months as
    (select user_id,
    order_date
    from zomato
    where order_date >= now() - interval '12 Months'
    AND order_date < now() - interval '6 Months')

select distinct user_id
from cte_previous_6months
where user_id not in (select user_id from cte_last_6_month)
```

Identify the Top 3 Cities With the Highest Percentage of Premium Customers

```sql
with cte_customer_spend as
    (
select user_id,
city,
round(avg(amount),2) as "avg_spend"
from zomato
group by 1,2),

cte_premium_customer as (

    select city,
    count(user_id) as "premium_count"
    from cte_customer_spend
    where avg_spend > 200
    group by 1
    ),

cte_customer_count as (
    select city,
    count(user_id) as "total_customer"
    from zomato
    group by 1)
```

```sql
SELECT p.city,
       p.premium_count,
       cc.total_customer,
       (p.premium_Count * 100.0 / cc.total_customer) AS premium_percentage
FROM cte_premium_customer p
JOIN cte_customer_count cc ON p.city = cc.city
ORDER BY premium_percentage DESC
LIMIT 3;
```

Calculate the Contribution of Each City to the Total Revenue for a Given Year

```sql
with cte_revenue as
    (
select
    city,
    sum(amount) as "total_revenue"
    from zomato
group by 1
),
cte_overall as (
select
    sum(amount) as "overall_revenue"
    from zomato --2500
)
select city,
    total_revenue*100/overall_revenue as "Contribution_revenue%"
    from cte_revenue,cte_overall
```

Thank You