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select count(*) as total customer from customers;
select count(*) as Total delivery from deliveries;
select count(*) as total orders from orders;
select count(*) as total restaurant from restaurants;
select Count(*) as total riders from riders;
-- Customer Analysis
--1. Top 10 customers based on total spending
select top 10 c.customer id,c.customer name,round(sum(o.total amount),2) as Total spending,
count(o.order id) as Total orders
from customers as c
inner join orders as o on c.customer id = o.customer id
group by c.customer id,c.customer name
order by sum(o.total amount) desc;
-- Top 10 Customers who placed Maximum orders in the last year
Select top 10 c.customer id,c.customer name,count(o.order id) as order count
from customers as c
inner join orders as o on c.customer id = o.customer id
where order date >= dateadd(year,-1,getdate())
group by c.customer id,c.customer name
having count(o.order id) > 250
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order by count(o.order id) desc;
-- Customer Age & Order Patterns
-- Which age group orders the most?
select case
when c.age between 18 and 25 then '18-25'
when c.age between 26 and 35 then '26-35'
when c.age between 36 and 45 then '36-45'
when c.age between 46 and 55 then '46-55'
else '56+' end as Age group,
c.gender,count(o.order id) as Total orders
from customers as c
inner join orders as o on o.customer id = c.customer id
group by case
when c.age between 18 and 25 then '18-25'
when c.age between 26 and 35 then '26-35'
when c.age between 36 and 45 then '36-45'
when c.age between 46 and 55 then '46-55'
else '56+' end ,c.gender
order by count(o.order id) desc,c.gender;
-- Restaurant Performance
-- Top 10 restaurants based on total sales
select top 10 r.restaurant id,r.restaurant name,r.city,count(o.order id) as Total orders,
round(sum(o.total amount),2) as Total sales
from restaurants as r
inner join orders as o on r.restaurant id = o.restaurant id
group by r.restaurant id,r.restaurant name,r.city
order by sum(o.total amount) desc;
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-- Order Trends by City
-- City with the highest number of orders
select r.city,count(o.order_id) as Total_orders,round(sum(o.total_amount),2) as Total_sales
from restaurants as r
inner join orders as o on r.restaurant id = o.restaurant id
group by r.city
order by count(o.order id) desc;
-- Average order value per city
select r.city,round(avg(total amount),2) as average sales from restaurants as r
inner join orders as o on r.restaurant id = o.restaurant id
group by r.city
order by round(avg(total amount),2) desc;
-- Order Patterns Over Time
-- Orders by day of the week
select datename(weekday, order date) as Day, count(order id) as Total orders
from orders
group by datename(weekday, order date)
order by count(order id) desc;
-- Busiest time of the day for orders
select
case
    when cast(order time as time) between '06:00:00' and '11:59:59' then 'Morning'
    when cast(order time as time) between '12:00:00' and '17:59:59' then 'Afternoon'
    when cast(order time as time) between '18:00:00' and '23:59:59' then 'Evening'
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else 'Night' end as Time of day,
count(order id) as Total orders from orders
group by
case
    when cast(order time as time) between '06:00:00' and '11:59:59' then 'Morning'
    when cast(order time as time) between '12:00:00' and '17:59:59' then 'Afternoon'
    when cast(order time as time) between '18:00:00' and '23:59:59' then 'Evening'
    else 'Night' end
order by count(order id) desc;
--Order Cancellations
-- Percentage of canceled orders
select count(case when order_status = 'cancelled' then 1 end)*100.0/count(order_id)
as Cancellation percent from orders;
-- City with the highest cancellation rate
select r.city,count(o.order id) as Total orders,
count(case when o.order status = 'cancelled' then 1 end) as cancel orders,
count(case when o.order status = 'cancelled' then 1 end)*100.0/count(o.order id) as Cancellation percent
from restaurants as r
inner join orders as o on r.restaurant id = o.restaurant id
group by r.city
order by count(case when o.order status = 'cancelled' then 1 end)*100.0/count(o.order id) desc;
-- Food Preferences
-- Top 10 most ordered food items
select top 10 order item, count(order id) as total order from orders
group by order item
order by count(order id) desc;
-- Food category with the highest average rating
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select top 10 order item, avg(rating) as Average rating from orders
group by order item
order by avg(rating) desc;
-- Delivery Performance
-- Percentage of successful vs. failed deliveries
select distinct delivery status from deliveries;
select
count(case when delivery status = 'Delivered' then 1 end)*100.0/count(delivery id) as Success percentage,
count(case when delivery status = 'failed' then 1 end)*100.0/count(delivery id) as failure percentage
from deliveries;
-- City with the most failed deliveries percentage
select r.city,
count(case when d.delivery status = 'failed' then 1 end)*100.0/count(d.delivery id) as failure percentage
from restaurants as r
inner join orders as o on r.restaurant id = o.restaurant id
inner join deliveries as d on d.order id = o.order id
group by r.city
order by count(case when d.delivery status = 'failed' then 1 end)*100.0/count(d.delivery id) desc;
select distinct delivery status from deliveries;
-- Rider Efficiency
-- Rider with the most Succesfull deliveries
select top 5 r.rider id,r.Rider name,count(d.delivery id) Number of deliveries from riders as r
inner join deliveries as d on r.rider id = d.rider id
where d.delivery_status = 'Delivered'
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group by r.rider_id,r.Rider name
order by count(d.delivery id) desc;
-- Average delivery time per city
select r.city, avg(datediff(minute,o.order time,d.delivery time)) as average delivery time
from restaurants as r
inner join orders as o on o.restaurant_id = r.restaurant_id
inner join deliveries as d on d.order id = o.order id
group by r.city
order by avg(datediff(minute, o.order_time, d.delivery_time)) ;
-- Revenue Forecasting & Trend Analysis
-- Monthly Revenue for the Last 6 Months
select year(order date) as year, datename(month, order date) as month,
round(sum(total amount),2) as Total revenue from orders
where order date >= dateadd(month, -6, getdate())
group by year(order date),datename(month,order date),month(order date)
order by year(order date) desc,month(order date) desc;
-- Order-to-Delivery Time Analysis
select o.order id,o.customer id,o.restaurant id,d.rider id,
datediff(minute,o.order time,d.delivery time) as Delivery time in minutes
from orders as o
inner join deliveries as d on o.order id = d.order id
where d.delivery status = 'Delivered'
order by datediff(minute, o.order time, d.delivery time) desc;
```