

Product Revenue Analysis

Q1: Which are the top 5 best-selling products by revenue?

SELECT TOP 5 p.ProductName, SUM(f.Quantity * f.UnitPrice) AS TotalRevenue

FROM FactOrders f

JOIN DimProducts p ON f.ProductID = p.ProductID

GROUP BY p.ProductName

ORDER BY TotalRevenue DESC

	ProductName	Revenue
1	Zinger Burger	1000.00
2	Salmon Sushi Roll	950.00
3	Mutton Biryani	900.00
4	Grilled Chicken Platter	900.00
5	Beef Chow Mein	900.00

High-Value Restaurants

Q2: Which restaurants have the highest average order value?

SELECT r.RestaurantName, AVG(f.Quantity * f.UnitPrice) AS AvgOrderValue FROM FactOrders f

JOIN DimRestaurants r ON f.RestaurantID = r.RestaurantID

GROUP BY r.RestaurantName ORDER BY AvgOrderValue DESC;

	restaurantname	Avg_order_value
1	China Town Express	925.000000
2	Lahori Tikka House	925.000000
3	Biryani King	900.000000
4	BBQ Tonight	750.000000
5	Burger Hub	625.000000
6	Pizza Mania	600.000000

Customer Demographics & City-wise Trends

Q3: Which city has the most active customers?

select top 1 city, count(customerid) as ActiveCustomers from DimCustomers group by city order by ActiveCustomers desc



Delivery Performance by Vehicle Type

Q4: What's the average delivery time by vehicle type?

select vehicletype, AVG(deliverydurationmins) as AvgDlvryTime

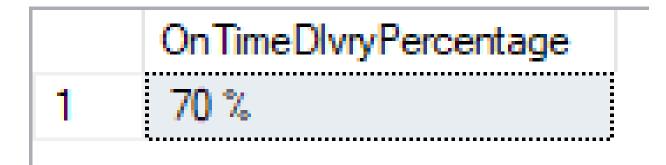
from DimDelivery group by vehicletype

	vehicletype	AvgDlvryTime
1	Bike	33
2	Car	47

Punctuality Analysis

Q5: What percentage of orders are delivered on time?

SELECT CAST(SUM(CAST(OnTimeDelivery AS INT)) * 100.0 / COUNT(*) AS DECIMAL(5,2)) AS OnTimeDeliveryPercent FROM DimDelivery;



Revenue Trends Over Time

Q6: What is the monthly revenue trend?

select t.ordermonth , sum(f.totalamount) as Revenue from DimTime t join FactOrders f on t.TimeID = f.TimeID group by t.OrderMonth order by Revenue desc

	ordermonth	Revenue
1	1	5525.00
2	3	1525.00
3	2	900.00

Customer Lifetime Value Analysis

Q7: Who are the top 5 customers by spending?

select top 5 customername, sum(f.totalamount) as TotalSpendings from DimCustomers c join FactOrders f on c.CustomerID = f.CustomerID group by CustomerName

order by TotalSpendings desc

	customername	TotalSpendings
1	Ali Raza	1000.00
2	Hina Yousaf	950.00
3	Mariam Javed	900.00
4	Ayesha Noor	900.00
5	Ahmed Malik	900.00

Category Wise Sales Insight

Q8: Which product categories generate the highest revenue?

600.00

select top 5 customername , sum(f.totalamount) as TotalSpendings from DimCustomers c join FactOrders f on c.CustomerID = f.CustomerID group by CustomerName order by TotalSpendings desc Category HighestRevenue

Order Cancellation Pattern

Q9: Which restaurants have the highest cancellation rates?

SELECT r.RestaurantName,

COUNT(CASE WHEN f.OrderStatus = 'Cancelled' THEN 1 END) AS CancelledOrders, COUNT(*) *AS TotalOrders*,

CAST(COUNT(CASE WHEN f.OrderStatus = 'Cancelled' THEN 1 END) * 100.0 / COUNT(*) AS DECIMAL(5,2)) AS CancellationRate

FROM FactOrders f

JOIN DimRestaurants r ON f.RestaurantID = r.RestaurantID

GROUP BY r.RestaurantName

ORDER BY CancellationRate DESC;

	restaurantname	TotalOrders	CancelledOrders	CancellationRate
1	BBQ Tonight	2	1	50%
2	Lahori Tikka House	2	1	50%
3	Pizza Mania	1	0	0%
4	Biryani King	1	0	0%
5	Burger Hub	2	0	0%
6	China Town Express	2	0	0%

Rider Performance Review

Q10: Which delivery riders consistently exceed the average delivery duration?

select d.ridername AS RiderName, d.DeliveryDurationMins, (select AVG(DeliveryDurationMins) from dimdelivery) AvgDeliveryTime, d.DeliveryDurationMins - (SELECT AVG(DeliveryDurationMins)

FROM DimDelivery) AS TimeOverAvg

from DimDelivery d

WHERE D.DeliveryDurationMins > (select AVG(DeliveryDurationMins) from

dimdelivery)

ORDER BY TimeOverAvg

	RiderName	Delivery Duration Mins	AvgDeliveryTime	TimeOverAvg	ıe
1	Usman Tariq	39	37	2	-
2	Bilal Yousaf	40	37	3	
3	Fahad Malik	45	37	8	
4	Rizwan Ahmed	48	37	11	
5	Kashif Raza	50	37	13	

Customer Retention Insights

Q11: What are the peak ordering hours across different cities?

select c.city , DATEPART(hour,cast(t.orderdate as datetime)) as HourOfDay , count(f.orderid) as OrderVolume from DimCustomers c join FactOrders f on c.CustomerID = f.CustomerID join DimTime t on f.TimeID = t.TimeID group by c.city , DATEPART(hour,cast(t.orderdate as datetime)) | City | 1 | Karachi | 2 | Lahore | 2 | Lahore | 3 | City | 1 | Karachi | 2 | Lahore | 3 | City | 1 | City

	city	HourOfDay	OrderVolume
1	Karachi	0	2
2	Lahore	0	2
3	Multan	0	1
4	Peshawar	0	1
5	Rawalpindi	0	1
6	Faisalabad	0	1
7	Hyderabad	0	1
8	Islamabad	0	1

Order Timing & Peak Activity

Q12: Which payment methods are most popular among customers?

SELECT PaymentMethod, COUNT(*) AS UsageCount,

CAST(COUNT(*) * 100.0 / (SELECT COUNT(*) FROM FactOrders) AS DECIMAL(5,2)) AS UsagePercentage

FROM FactOrders

GROUP BY PaymentMethod

ORDER BY UsageCount DESC;

	Payment Method	UsageCount	UsagePercentage
1	Wallet	4	40.00
2	Cash	3	30.00
3	Credit Card	3	30.00

Payment Preference Analysis

Q13: How often do customers place repeat orders within a month?

select c.customername , count(f.orderid) as OrderCount , datename(month,t.orderdate) as OrderMonth from DimCustomers c join FactOrders f on c.CustomerID = c.CustomerID join DimTime t on f.TimeID = T.TimeID GROUP BY c.customername , datename(month,t.orderdate) HAVING count(f.orderid) > 1 ORDER BY OrderCount DESC

	customemame	OrderCount	OrderMonth
1	Ahmed Malik	7	January
2	Ali Raza	7	January
3	Ayesha Noor	7	January
4	Bilal Aslam	7	January
5	Hina Yousaf	7	January
6	Mariam Javed	7	January
7	Nida Shah	7	January
8	Sara Khan	7	January
9	Usman Tariq	7	January
10	Zain Ul Abideen	7	January
11	Ahmed Malik	2	March
12	Ali Raza	2	March
13	Ayesha Noor	2	March
14	Bilal Aslam	2	March
15	Hina Yousaf	2	March
16	Mariam Javed	2	March
17	Nida Shah	2	March

Key Business Insights

Top-selling products are burgers and biryani, contributing significantly to overall revenue.
Lahore and Karachi consistently lead in customer volume and high-value orders, making them priorit markets.
Urban customers show a strong preference for fast food and local cuisine categories.
Bike deliveries are both faster and more punctual compared to car-based deliveries.
Order cancellations are highest in a few underperforming restaurants, indicating service or quality issues.
Peak order hours fall between 7 PM and 10 PM, particularly on weekends.
Repeat purchases within a month are most common among users in major metro cities.
Digital wallets and card payments are growing in popularity, while cash-on-delivery still holds a large share.
Delivery delays are more likely with cars and longer routes—highlighting a need for better route assignment.
Monthly revenue patterns show seasonality, with spikes during national holidays and weekends.

Strategic Recommendations

- Expand top-performing categories like burgers and biryani to more cities.
- Improve delivery performance by investing more in bike logistics and route optimization.
- Launch targeted campaigns in cities like Faisalabad and Hyderabad with lower order counts.
- Loyalty programs should focus on top customers by offering discounts or free deliveries.
- Use monthly and seasonal trends to plan marketing during peak demand times (e.g., weekends, holidays).

