

## Questions Answered in this Project

1. Calculate the overall size of data.
2. Check for missing values.
3. Check for orders in multiple segments.
4. Figuring out unique order IDs in data.
5. Finding out the shipping mode mostly used.
6. What is the date range of the dataset?
7. How many orders were placed per year?
8. How do sales vary over time?
9. How do sales vary by quarter?
10. What is the average delivery time (Order Date → Ship Date)?
  11. Are there seasonal trends in orders?
  12. How do profit and discounts vary over the years?
  13. Are there specific days with more orders?
  14. What is the year-over-year sales growth percentage?
15. What is the average shipping time (difference between Order Date and Ship Date)?
  16. Which shipping mode is the most common and fastest?
  17. How does shipping time vary by region?
  18. How many late shipments are there?
19. Is there a correlation between shipping time and profit?
  20. How many unique customers are there?
  21. Which customers have placed the most orders?
22. What is the distribution of order frequency by customer?
  23. How many one-time customers are there?
  24. How are the customers distributed by segment?
  25. Which states have the most orders?
  26. Which states have the highest total sales?

27. Which states have the highest profit/loss?
28. Which cities have the most orders?
29. What is the distribution of orders across categories?
30. What is the average discount by category?
31. What is the average profit margin by category?
32. What is the distribution of orders by sub-category?
33. Are there loss-making sub-categories?
34. What is the total sales in the dataset?
35. What is the correlation between sales and profit?
36. What is the correlation between sales and discount?
37. What are the top 10 products by sales?
38. Are there outliers in the sales data?
39. Distribution of orders across categories and their sub-categories.
40. What is the relationship between Sales, Profit, and Discount?
41. Which product categories have the highest discounts and how do they affect profits?
  42. How does Quantity, Sales, and Profit vary by Category?
  43. Are there seasonal trends in Sales, Profit, and Quantity?
  44. Which regions are the most profitable and which suffer losses?
  45. What is the relationship between Ship Mode, Sales, and Profit?
    46. How does Sales and Profit vary by State and Region?
    47. Which products generate high sales but low profits?
    48. How does Profit vary with Quantity across Categories?
    49. Are there any correlations between Sales, Profit, and Quantity?
  50. Which Sub-Category contributes the most and least to the overall profit?