

Ksr Datavizon



Marketing Channel Effectiveness

Channel-Wise Engagement

- 1. Which channel had the highest impressions and clicks?
- 2. What is the cost per click (CPC) and cost per acquisition (CPA) for each channel?
- 3. How many customers were reached by each marketing channel?
- 4. Which channel had the best conversion rate (click to purchase)?
- 5. What is the monthly spend per channel, and how does it relate to customer purchases?
- 6. How many customers were exposed to multiple channels?



Comparative & Trend-Based Questions

★ Cross-Analysis

- 1.Do younger customers respond better to social media ads compared to email or programmatic ads?
- 2. Which marketing channel performs best in specific regions or income groups?
- 3.1s there a difference in product preferences between male and female customers?
- 4. Are higher-income customers more likely to convert through LinkedIn or YouTube ads?
- 5. What are the trends in ad spend vs. customer acquisition across quarters?



Retention & Performance Indicators

📌 Loyalty and ROI

- 1. What percentage of customers made multiple purchases?
- 2. How does the customer's average monthly spending change after exposure to ads?
- 3. Which marketing channel yields the best ROI (Revenue generated / Cost)?
- 4. What is the lifetime value (LTV) of customers acquired through each channel?
- 5.Is customer behavior (conversion, spending) consistent across years?

real-world analytical thinking, KPI tracking, and data storytelling, ideal for dashboards or even interview case studies.



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Tolerance Customer-Level Analytics (Advanced)

- 1. What is the average purchase frequency per customer in the promotional vs. nonpromotional year?
- 2. What is the churn rate % of customers who didn't return after first purchase?
- 3. What is the average time between first and second purchase for repeat customers?
- 4. Can we classify customers into segments (high spenders, occasional buyers, inactive)?
- 5. What is the correlation between income and total revenue contributed by customer?
- 6. Which customers have the highest ratio of ad impressions to purchases?
- 7. Which cities have a high customer base but low conversion rates?
- 8. Who are our "sleeping" customers (those who were reached but didn't buy)?
- 9. Which age group shows the best response to promotional campaigns?
- 10. Create RFM segmentation (Recency, Frequency, Monetary value) and rank customers.



Sales Behavior Analysis (Deep-Dive)

- 1. What is the seasonality pattern of sales (month-wise/quarter-wise)?
- 2. Which items have highest cart abandonment rates?
- 3. How does the time gap between 'viewed' and 'purchased' differ by category?
- 4. What is the cross-sell ratio? Are customers buying items from multiple categories?
- 5. Compare average order value (AOV) across product categories and customer income levels.
- 6. Which SKUs contribute to 80% of the total revenue (Pareto analysis)?
- 7. What are the top reasons for purchase drop-offs (analyze funnel leaks)?
- 8.Do customers tend to purchase the same item repeatedly or explore different ones?
- 9. How do sales performance metrics vary regionally despite similar ad budgets?
- 10. How many new customers were acquired each month through purchases?



Multi-Channel Attribution Analysis (Complex

- 1. What is the multi-touch attribution impact (when a customer is exposed to >1 channel)?
- 2. Which channel combinations are most effective in driving conversions?
- 3. What is the average cost per converted customer for each channel?
- 4. Which channel has the best ROI when factoring in customer LTV?
- 5. How does channel performance vary by demographic segment (age, gender, income)?
- 6. What's the average lag time between ad impression and purchase per channel?
- 7. How many customers were only reached by 1 channel vs multiple channels?
- 8. What is the lift in sales before and after launching each individual channel?
- 9. What percentage of customers clicked but didn't purchase (wasted ad spend)?
- 10. Which channels are effective for specific product categories?



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Time-Series & Trend Analysis

- 1. How did average daily revenue change month-over-month?
- 2.Identify anomalies or spikes in revenue correlate with ad spend or promotions.
- 3. What's the rolling 7-day/30-day average sales and ad engagement?
- 4. Are there lead indicators from ad metrics predicting sales in the following week?
- 5. How did the product portfolio contribution change across months?



Predictive & Simulation-Type Questions (Excel Feasible)

- 1. Based on current trends, what is the forecasted revenue for next 3 months?
- 2. Simulate how a 10% increase in Instagram ads spend could impact conversions.
- 3. Which top 5 customers are likely to churn based on recency and frequency?
- 4. Which category is most likely to be promoted next, based on past success?
- 5. What is the break-even point of ad spend vs sales revenue by channel?



Customer Lifetime Value (CLV) & Profitability Analysis

- 1. What is the average customer lifetime value (CLV) by acquisition channel?
- 2. Which customers generated the highest profit margin (consider cost vs revenue)?
- 3. Are there customers whose acquisition cost is higher than their total spend?
- 4. How long does it take to recover the marketing cost per customer?
- 5. What is the contribution margin of each marketing channel?



Purchase Journey & Funnel Breakdown

- 1. What % of customers go through full funnel (view \rightarrow cart \rightarrow buy)?
- 2. What's the average drop-off time at each funnel stage?
- 3. Create a visual funnel analysis for each product category.
- 4. Which stage of funnel is most impacted by ads (more views vs more purchases)?
- 5. Compare funnel efficiency by demographics (e.g., male vs female)



Bonus Challenges (Stretch Goals)

- 1. Create a composite score for customer quality using multiple KPIs.
- 2.Use quartile analysis to profile spending patterns.
- 3. Calculate the marketing efficiency ratio (Revenue / Ad Spend) over time.
- 4. Apply ABC classification (A=top 80%, B=next 15%, C=last 5%) to customer value.
- 5. Track cohort behavior (e.g., customers acquired in Jan vs Feb-how do they behave over time?)



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