

INSIGHT:	Total Sales Revenue: Calculate the total revenue from sales.	
MYSQL QUERY:	SELECT SUM(s.Quantity * p.Unit_Price_USD) AS TotalRevenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey;	
INSIGHT PLOT:	55.76M Sum of TotalRevenue	
MAXIMUM:	Sum of Total Revenue	
RECOMMENDATION:	This insights gives Compare revenue performance with competitors to identify market gaps or opportunities.	

INSIGHT:	2. Revenue by Product: Identify which products generate the most revenue.	
MYSQL QUERY:	SELECT p.Product_Name, SUM(s.Quantity * p.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey GROUP BY p.Product_Name ORDER BY Revenue DESC limit 10;	
INSIGHT PLOT:	Back to report SUM OF REVENUE BY PRODUCT_NAME AND PRODUCT_NAME Product_Name WWI De Adventu Adventu Adventu Adventure Works Desktop Adventure Works Desktop Adventure Works Desktop WWI Desktop PC2.33 X233 WWI Desktop PC2.33 X233 WWI Desktop PC2.33 X233 Adventure Works 52" LCD Adventure Works 52" LCD Sum of Revenue Sum of Revenue	
MAXIMUM:	WWI Desktop PC2.33 X2330 Black	
MINIMUM:	WWI Desktop PC2.33 X2330 Silver	
RECOMMENDATION:	Identify top-performing products and optimize their features, pricing, or marketing.	

INSIGHT:	Revenue by Category/Subcategory: Analyze revenue distribution across different categories and subcategories.	
MYSQL QUERY:	SELECT p.Category, p.Subcategory, SUM(s.Op.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductGROUP BY p.Category, p.Subcategory ORDER BY Revenue DESC;	•
INSIGHT PLOT:	3.13M (5.62%) (7.3%) 3.17M (5.68%) 5.93M (10.63%) 6.52M (11.69%) 10.8M (19.36%)	Category Computers Home Appliances Cameras and camcorders Cell phones TV and Video Audio Music, Movies and Audio Bo Games and Toys
MAXIMUM:	COMPUTERS	
MINIMUM:	GAMES AND TOYS	
RECOMMENDATION:	Identify top-performing categories and optimi offerings, pricing, or marketing.	ize their product

INSIGHT:	4. Sales Trend Over Time: Observe how sales revenue trends over time (e.g., by month).	
MYSQL QUERY:	SELECT DATE_FORMAT(s.Order_Date, '%Y-%m') AS Month, SUM(s.Quantity * p.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey GROUP BY Month ORDER BY Month;	
INSIGHT PLOT:	Back to report SUM OF REVENUE BY MONTH 3.0M 2.5M 2.0M 2.0M 1.5M 0.5M 0.5M	
MAXIMUM:	649918.7783333659 – By Year of 2019	
MINIMUM:	526266.8997821808 – By Year of 2021	
RECOMMENDATION:	Analyze sales growth rates to identify areas of strength and weakness.	

INSIGHT:	5. Top Customers by Revenue: Identify which customers contribute the most to revenue.	
MYSQL QUERY:	SELECT c.Name, SUM(s.Quantity * p.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey JOIN customers c ON s.CustomerKey = c.CustomerKey GROUP BY c.Name ORDER BY Revenue DESC LIMIT 5;	
INSIGHT PLOT:	Back to report SUM OF REVENUE BY NAME AND NAME Name Matthew Flemming Stephan Rothstein Karen Jones Zrina Topic Stefanie Hartmann 70K 60K Matthew Flemming Stephan Rothstein Karen Jones Zrina Topic Stefanie Hartmann Name Name Name	
MAXIMUM:	Matthew Flemming - 61871.6991815567 Revenue	
MINIMUM:	Stefanie Hartmann - 41521.5299282074 Revenue	
RECOMMENDATION:	Focus on retaining high-value customers to maintain revenue.	

INSIGHT:	6. Product Sales by Color: Determine which colors are most popular among products.	
MYSQL QUERY:	SELECT p.Color, SUM(s.Quantity * p.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey GROUP BY p.Color ORDER BY Revenue DESC;	
INSIGHT PLOT:	Back to report SUM OF REVENUE BY COLOR 1.59M (2.86%) (1.9%) (0%) 1.88M (3.37%) 1.91M (3.42%) 3.71M (6.66%) 4.3M (7.71%) 10.41M (18.67%)	Color Black White Silver Grey Brown Blue Red Green Gold Pink Orange Yellow Silver Grey Azure Purple
MAXIMUM:	Black- 13862231.5054299(REVENUE)	
MINIMUM:	Transparent- 626.2200(REVENUE)	
RECOMMENDATION:	Adjust prices by color to maximize revenue.	

INSIGHT:	7. Revenue by Gender: Analyze sales revenue distribution by customer gender.	
MYSQL QUERY:	SELECT c.Gender, SUM(s.Quantity * p.Unit_Price_USD) AS Revenue FROM sales s JOIN products p ON s.ProductKey = p.ProductKey JOIN customers c ON s.CustomerKey = c.CustomerKey GROUP BY c.Gender ORDER BY Revenue DESC;	
	Gender ● Male ● Female 30M	Ц
	25M ······	
INSIGHT PLOT:	Not Revenue To Mark The Mark	
	10M ····································	
	OM	
MAXIMUM:	Sum of Revenue – Male	
MINIMUM :	Sum of Revenue - Female	
RECOMMENDATION:	Adjust prices to optimize revenue from each gender.	

INSIGHT:	8. Average Order Value: Calculate the average value of each order.	
MYSQL QUERY:	SELECT AVG(order_value) AS AverageOrderValue FROM (SELECT s.Order_Number, SUM(s.Quantity * p.Unit_Price_USD) AS order_value FROM sales s JOIN products p ON s.ProductKey = p.ProductKey GROUP BY s.Order_Number) AS OrderValues;	
INSIGHT PLOT:	2.12K Sum of AverageOrderValue	
MAXIMUM:	Sum of Average Order value	
RECOMMENDATION:	Optimize prices to increase AOV.	

INSIGHT:	9. Customer Purchase Frequency: Determine how often each customer makes a purchase. SELECT c.Name , COUNT(s.Order_Number) AS PurchaseCount FROM sales s JOIN customers c ON s.CustomerKey = c.CustomerKey GROUP BY c.Name ORDER BY PurchaseCount DESC;	
MYSQL QUERY:		
	COUNT OF NAME BY PURCHASECOUNT	
INSIGHT PLOT:	1,500 1,000 500 10 20 30 40 PurchaseCount	
MAXIMUM:	36	
MINIMUM:	5	
RECOMMENDATION:	Identify opportunities to upsell or cross-sell to frequent customers.	

INSIGHT:	10. Revenue Contribution by Brand: Analyze the revenue contribution from each brand.	
MYSQL QUERY:	SELECT p.Brand, SUM(s.Quantity * p.Unit_Price_USD) FROM sales s JOIN products p ON s.ProductKey = p.Prod GROUP BY p.Brand ORDER BY Revenue DESC;	
INSIGHT PLOT:	3.21M (5.76%) 5.39M (9.66%) 6.81M (12.21%) 5.39M (9.66%) 9.17M (16.45%)	Brand Adventure Works Contoso Wide World Importers Fabrikam The Phone Company Proseware Litware Southridge Video A. Datum Northwind Traders Tailspin Toys
MAXIMUM:	Adventure Works – 11849909.2948(REVENUE)	
MINIMUM:	Tailspin Toys - 682730.9441(REVENUE)	
RECOMMENDATION:	Adjust brand positioning to appeal to target audiences.	