Sales Trend Analysis Using Aggregations

Analyze monthly revenue and order volume

Dataset: online_sales

1. Quires

SELECT * FROM suhasdb.order;

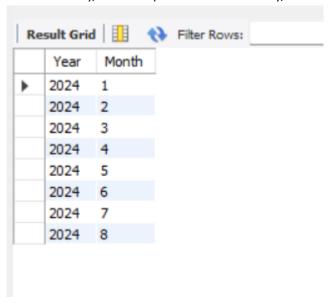
	Transaction ID	Date	Product Category	Product Name	Units Sold	Unit Price	Total Revenue	Region	Payment Method
•	10001	2024-01-01	Electronics	iPhone 14 Pro	2	999.99	1999.98	North America	Credit Card
	10002	2024-01-02	Home Appliances	Dyson V11 Vacuum	1	499.99	499.99	Europe	PayPal
	10003	2024-01-03	Clothing	Levi's 501 Jeans	3	69.99	209.97	Asia	Debit Card
	10004	2024-01-04	Books	The Da Vinci Code	4	15.99	63.96	North America	Credit Card
	10005	2024-01-05	Beauty Products	Neutrogena Skincare Set	1	89.99	89.99	Europe	PayPal
	10006	2024-01-06	Sports	Wilson Evolution Basketball	5	29.99	149.95	Asia	Credit Card
	10007	2024-01-07	Electronics	MacBook Pro 16-inch	1	2499.99	2499.99	North America	Credit Card
	10008	2024-01-08	Home Appliances	Blueair Classic 480i	2	599.99	1199.98	Europe	PayPal
	10009	2024-01-09	Clothing	Nike Air Force 1	6	89.99	539.94	Asia	Debit Card
	10010	2024-01-10	Books	Dune by Frank Herbert	2	25.99	51.98	North America	Credit Card
	10011	2024-01-11	Beauty Products	Chanel No. 5 Perfume	1	129.99	129.99	Europe	PayPal
	10012	2024-01-12	Sports	Babolat Pure Drive Tennis	3	199.99	599.97	Asia	Credit Card
	10013	2024-01-13	Electronics	Samsung Galaxy Tab S8	2	749.99	1499.98	North America	Credit Card
	10014	2024-01-14	Home Appliances	Vauria V-Elita Coffaa Makar	1	190 00	190 00	Furana	DayDal

2. Extract Month and Year

SELECT

EXTRACT(YEAR FROM Date) AS Year, EXTRACT(MONTH FROM Date) AS Month FROM suhasdb.order

GROUP BY EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date);



3. Monthly Revenue by Payment Method

SELECT

EXTRACT(YEAR FROM Date) AS Year,

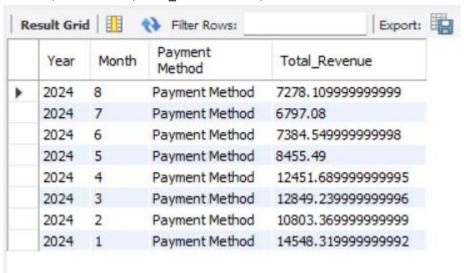
EXTRACT(MONTH FROM Date) AS Month,

'Payment Method',

SUM(`Total Revenue`) AS Total_Revenue

FROM suhasdb.order

GROUP BY EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date), 'Payment Method' ORDER BY Year DESC, Month DESC, Total_Revenue DESC;



4. COUNT(DISTINCT) for Volume

SELECT

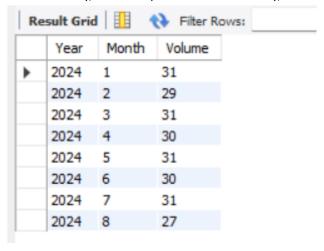
EXTRACT(YEAR FROM Date) AS Year,

EXTRACT(MONTH FROM Date) AS Month,

COUNT('DISTINCT Transaction ID') AS Volume

FROM suhasdb.order

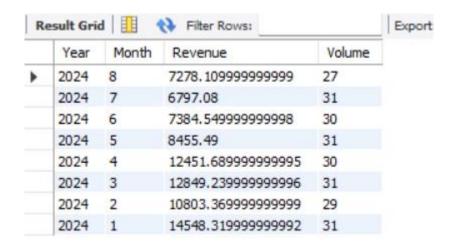
GROUP BY EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date);



5. ORDER BY for Sorting

SELECT

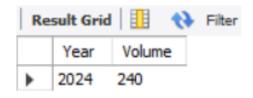
EXTRACT(YEAR FROM Date) AS Year,
EXTRACT(MONTH FROM Date) AS Month,
SUM(`Total Revenue`) AS Revenue,
COUNT('DISTINCT Transaction ID') AS Volume
FROM suhasdb.order
GROUP BY EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date)
ORDER BY Year DESC, Month DESC;



6. Total Revenue by Year (Without Month)

SELECT

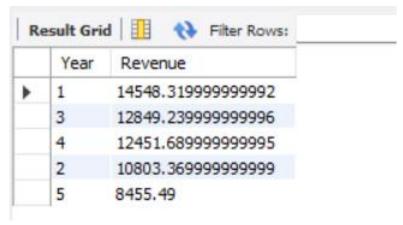
EXTRACT(YEAR FROM Date) AS Year, COUNT('DISTINCT Transaction ID') AS Volume FROM suhasdb.order GROUP BY EXTRACT(YEAR FROM Date);



7. Top 5 Month by Revenue

SELECT

EXTRACT(MONTH FROM Date) AS Year, SUM(`Total Revenue`) AS Revenue FROM suhasdb.order GROUP BY EXTRACT(MONTH FROM Date) ORDER BY Revenue DESC LIMIT 5;



8. Revenue for Each Month in a Specific Date Range

SELECT

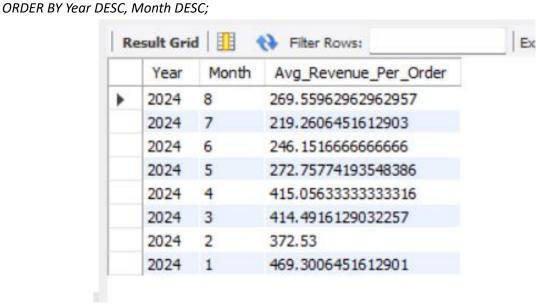
EXTRACT(YEAR FROM Date) AS Year,

EXTRACT(MONTH FROM Date) AS Month,

AVG(`Total Revenue`) AS Avg_Revenue_Per_Order

FROM suhasdb.order

GROUP BY EXTRACT(YEAR FROM Date), EXTRACT(MONTH FROM Date)



9. Total Revenue by Region

SELECT

Region,

SUM(`Total Revenue`) AS Revenue

FROM suhasdb.order

GROUP BY Region

ORDER BY Revenue DESC;

