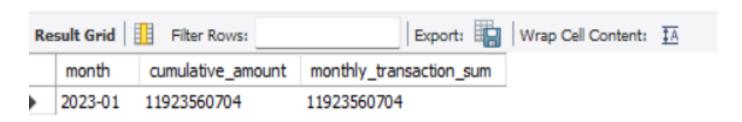
Zywa data analyst assingment

By gourav verma 20118032

Monthly transactions

WITH DateProcessed AS (SELECT DATE_FORMAT(STR_TO_DATE(transaction_timestamp, '%m/%d/%y %H:%i'), '%Y-%m') AS processed_month, transaction_amount FROM transactions WHERE transaction_timestamp IS NOT NULL AND transaction_amount IS NOT NULL), MonthlyTotals AS (SELECT processed_month, SUM(transaction_amount) AS monthly_transaction_sum FROM DateProcessed GROUP BY processed_month), CumulativeTotals AS (SELECT processed_month, monthly_transaction_sum, SUM(monthly_transaction_sum) OVER (ORDER BY processed_month) AS cumulative_amount FROM MonthlyTotals) SELECT processed_month AS month, cumulative_amount, monthly_transaction_sumFROM CumulativeTotalsORDER BY month;



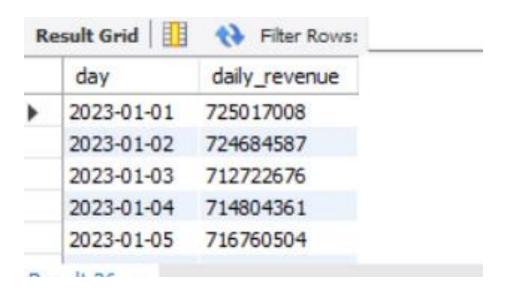
Most Popular Products/Services:

- WITH MerchantTransactions AS (SELECT merchant_name, COUNT(*) AS total_transactions
- FROM transactions GROUP BY merchant name
-),
- MerchantRankings AS (SELECT merchant_name, total_transactions,
- DENSE_RANK() OVER (ORDER BY total_transactions DESC) AS rank_position FROM MerchantTransactions
-)SELECT merchant_name, total_transactions AS transaction_count
- FROM MerchantRankings
 WHERE rank position <= 5;

Result Grid Filter Rows:			Export:	Wrap Cell Content:	
	merchant_name	transaction_count			
•	Tech Touch	509			
	Beauty Bliss	504			
	Home Harmony	503			
	Tech Trends	464			
	Hobby Haven	462			

Daily Revenue Trend:

- WITH DailyTransactions AS (SELECT
- DATE_FORMAT(STR_TO_DATE(transaction_timestamp, '%m/%d/%y %H:%i'), '%Y-%m-%d') AS transaction day,
- transaction_amount FROM transactions WHERE transaction_timestamp IS NOT NULL AND transaction_amount IS NOT NULL
-)SELECT
- transaction_day AS day,
- SUM(transaction_amount) AS daily_revenue
- FROM
- DailyTransactions
- GROUP BY
- transaction day
- ORDER BY
- transaction day;



Average Transaction Amount by Product Category:

 SELECT merchant_type, AVG(transaction_amount) AS avg_transaction_amountFROM transactionsGROUP BY merchant_type;

merchant_type	avg_transaction_amount	
Business Services	473977.3752	
Sports & Fitness	504352.2688	
Eco-friendly Products	504914.6221	
Smart Home	499480.8445	
Luxury Products	483378.0883	

Transaction Funnel Analysis:

 SELECT transaction_status, COUNT(*) AS transaction_countFROM transactionsGROUP BY transaction_statusORDER BY transaction status;

	transaction_status	transaction_count
•	0	4035
	1002	4056
	1006	4124
	1022	3894
	1829	3921

Monthly Retention Rate:

t.transaction timestamp, cohort month) AS ucGROUP BY uc.cohort monthORDER BY uc.cohort month;

cohort_month	cohort_size	retained_users	retention_rate	user_ids
2023-01	22743	22743	1.0000	0-0002-aaee-1674-daed,0-0003-ebbb-4215-dc

analysis and feedback

