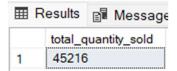
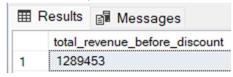
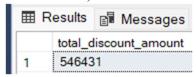
1. What was the total quantity sold for all products? SELECT SUM(qty) AS total_quantity_sold FROM sales;



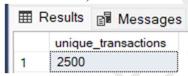
2. What is the total generated revenue for all products before discounts? SELECT SUM(qty * price) AS total_revenue_before_discount FROM sales;



3. What was the total discount amount for all products? SELECT SUM(qty * discount) AS total_discount_amount FROM sales;



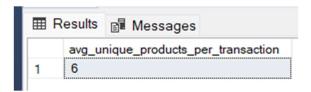
4. How many unique transactions were there? SELECT COUNT(DISTINCT txn_id) AS unique_transactions FROM sales;



5. What are the average unique products purchased in each transaction? SELECT AVG(t.unique_products) AS avg_unique_products_per_transaction FROM (
SELECT txn_id_COUNT(DISTINCT prod_id) AS unique_products

```
SELECT txn_id, COUNT(DISTINCT prod_id) AS unique_products FROM sales GROUP BY txn_id
```

) t;

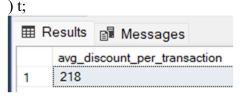


6. What is the average discount value per transaction?

SELECT AVG(t.total_discount) AS avg_discount_per_transaction FROM (

SELECT txn_id, SUM(qty * discount) AS total_discount FROM sales

GROUP BY txn_id

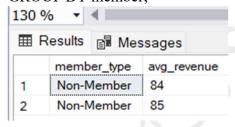


7. What is the average revenue for member transactions and non-member transactions? SELECT

CASE WHEN member = 'M' THEN 'Member' ELSE 'Non-Member' END AS member_type, AVG(qty * price) AS avg_revenue

FROM sales

GROUP BY member;



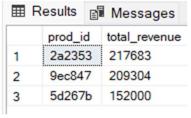
8. What are the top 3 products by total revenue before discount?

SELECT TOP 3 prod id, SUM(qty * price) AS total revenue

FROM sales

GROUP BY prod id

ORDER BY total_revenue DESC;



9. What are the total quantity, revenue and discount for each segment?

SELECT

pd.segment name,

SUM(s.qty) AS total_quantity,

SUM(s.qty * s.price) AS total revenue,

SUM(s.qty * s.discount) AS total discount

FROM sales s

JOIN product_details pd ON s.prod_id = pd.product_id

GROUP BY pd.segment name;

⊞ Results						
	segment_name	total_quantity	total_revenue	total_discount		
1	Jacket	11385	366983	137044		
2	Jeans	11349	208350	137909		
3	Shirt	11265	406143	136971		
4	Socks	11217	307977	134507		

10. What is the top selling product for each segment?

SELECT

pd.segment name,

FIRST_VALUE(s.prod_id) OVER (PARTITION BY pd.segment_name ORDER BY

SUM(s.qty) DESC) AS top selling product

FROM sales s

JOIN product details pd ON s.prod_id = pd.product_id

GROUP BY pd.segment name, s.prod id;

■ Results				
	segment_name	top_selling_product		
1	Jacket	9ec847		
2	Jacket	9ec847		
3	Jacket	9ec847		
4	Jeans	c4a632		
5	Jeans	c4a632		
6	Jeans	c4a632		
7	Shirt	2a2353		
8	Shirt	2a2353		
9	Shirt	2a2353		
10	Socks	f084eb		
11	Socks	f084eb		
12	Socks	f084eb		

11. What are the total quantity, revenue and discount for each category?

SELECT

pd.category name,

SUM(s.qty) AS total quantity,

SUM(s.qty * s.price) AS total_revenue,

SUM(s.qty * s.discount) AS total discount

FROM sales s

JOIN product_details pd ON s.prod_id = pd.product_id

GROUP BY pd.category_name;



12. What is the top selling product for each category?

SELECT

pd.category_name,

FIRST_VALUE(s.prod_id) OVER (PARTITION BY pd.category_name ORDER BY

SUM(s.qty) DESC) AS top selling product

FROM sales s

JOIN product_details pd ON s.prod_id = pd.product_id

GROUP BY pd.category name, s.prod id;

Results				
	category_name	top_selling_product		
1	Mens	2a2353		
2	Mens	2a2353		
3	Mens	2a2353		
4	Mens	2a2353		
5	Mens	2a2353		
6	Mens	2a2353		
7	Womens	9ec847		
8	Womens	9ec847		
9	Womens	9ec847		
10	Womens	9ec847		
11	Womens	9ec847		
12	Womens	9ec847		