SQL Case Study 3: Texture Tales



INTRODUCTION

Texture Tales Clothing Company prides themselves on providing an optimized range of clothing and lifestyle wear for the modern adventurer!

I, the CEO of this trendy fashion company is asking you to assist the team's merchandising teams analyze their sales performance and generate a basic financial report to share with the wider business.

Done By: L. ANUSH BHARATHWAJ



SCHEMA USED

product_	details
product_id	varchar
price	int
product_name	varchar
category_id	int
segment_id	int
style_id	int
category_name	varchar
segment_name	varchar
style_name	varchar

sales				
prod_id	varchar			
qty	int			
price	int			
discount	int			
member	varchar			
txn_id	varchar			
start_txn_time	varchar			

product_prices
id int

product_id varchar
price int

Product_	_hierarchy
id	int
product_id	int
price	int
start_date	date
end_date	date

CASE STUDY QUESTIONS

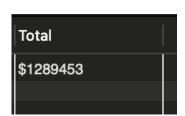
1. What was the total quantity sold for all products?

select details.product_name as product , sum(qty) as qty
from product_details as details inner join sales
on details.product_id = sales.prod_id
group by product order by qty desc;

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product	qty	
Grey Fashion Jacket - Womens	3876	
Navy Oversized Jeans - Womens	3856	
Blue Polo Shirt - Mens	3819	
White Tee Shirt - Mens	3800	
Navy Solid Socks - Mens	3792	
Black Straight Jeans - Womens	3786	
Pink Fluro Polkadot Socks - Mens	3770	
Indigo Rain Jacket - Womens	3757	
Khaki Suit Jacket - Womens	3752	
Cream Relaxed Jeans - Womens	3707	
White Striped Socks - Mens	3655	
Teal Button Up Shirt - Mens	3646	

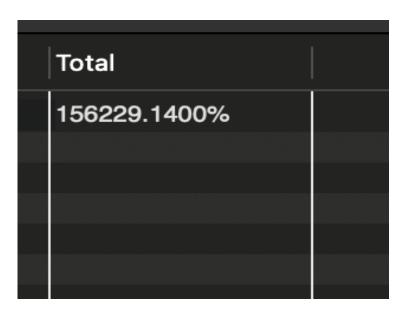
2. What is the total generated revenue for all products before discounts?

select concat('\$',sum(qty * price)) as Total from sales;



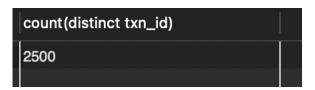
3. What was the total discount amount for all products?

select concat(sum(price*qty*discount)/100,'%') as Total from sales;



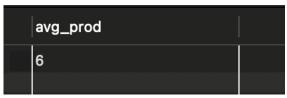
4. How many unique transactions were there?

select count(distinct txn_id) from sales;

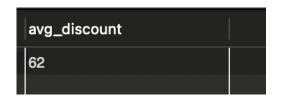


5. What are the average unique products purchased in each transaction?

```
with cte_trans as
(
select t.txn_id , count(distinct p.product_name) as
counts
from sales t inner join product_details p
on p.product_id = t.prod_id
group by t.txn_id
)
select round(avg(counts)) as avg_prod from cte_trans;
```



6. What is the average discount value per transaction?



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

mer	mber	avg_revenue	
true		516	
false	€	515	

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

```
select p.product_name,sum(s.qty*s.price) as revenue from
product_details p inner join sales s
on p.product_id = s.prod_id
group by p.product_name
order by revenue desc
```

limit 3;

product_name	revenue	
Blue Polo Shirt - Mens	217683	
Grey Fashion Jacket - Womens	209304	
White Tee Shirt - Mens	152000	
		Maria Maria Maria Maria

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

```
select p.segment_id,p.segment_name, sum(s.qty*s.price) as revenue ,
sum(s.qty*s.price*s.discount)/100 as discount
from sales s inner join product_details p
on p.product_id = s.prod_id
group by p.segment name, p.segment id;
```

segment_id	segment_name	revenue	discount	
3	Jeans	208350	25343.9700	
5	Shirt	406143	49594.2700	
6	Socks	307977	37013.4400	
4	Jacket	366983	44277.4600	

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

```
select p.product_id,p.style_id,p.segment_name,p.product_name ,
sum(s.qty) as qty
from product_details p inner join sales s
on p.product_id=s.prod_id
group by p.segment_name,p.product_name,
p.product_id,p.style_id;
```

product_id	style_id	segment_name	product_name	qty
c4a632	7	Jeans	Navy Oversized Jeans - Womens	3856
5d267b	13	Shirt	White Tee Shirt - Mens	3800
b9a74d	17	Socks	White Striped Socks - Mens	3655
2feb6b	18	Socks	Pink Fluro Polkadot Socks - Mens	3770
e31d39	9	Jeans	Cream Relaxed Jeans - Womens	3707
72f5d4	11	Jacket	Indigo Rain Jacket - Womens	3757
2a2353	15	Shirt	Blue Polo Shirt - Mens	3819
f084eb	16	Socks	Navy Solid Socks - Mens	3792
e83aa3	8	Jeans	Black Straight Jeans - Womens	3786
d5e9a6	10	Jacket	Khaki Suit Jacket - Womens	3752
9ec847	12	Jacket	Grey Fashion Jacket - Womens	3876
c8d436	14	Shirt	Teal Button Up Shirt - Mens	3646

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

select p.category_name,sum(s.qty) as qty , sum(s.qty*s.price) as revenue , sum(s.qty*s.price*s.discount)/100 as discount from product_details p inner join sales s on p.product_id = s.prod_id group by p.category name;

category_name	qty	revenue	discount	
Womens	22734	575333	69621.4300	
Mens	22482	714120	86607.7100	

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

select p.category_name,p.product_name,sum(s.qty) as qty from sales s inner join product_details p on p.product_id=s.prod_id group by p.category_name,p.product_name order by qty desc limit 5;

category_name	product_name	qty	
Womens	Grey Fashion Jacket - Womens	3876	
Womens	Navy Oversized Jeans - Womens	3856	
Mens	Blue Polo Shirt - Mens	3819	
Mens	White Tee Shirt - Mens	3800	
Mens	Navy Solid Socks - Mens	3792	
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