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**

**[LINK](https://drive.google.com/drive/folders/1Hb1DTIuGE0gabzZOaDQelRYtDS2lZBSD?usp=sharing)**

SCHEMA USED

**sales**

|  |  |
| --- | --- |
| **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 |

prod\_id varchar

qty int

price int

discount int

member varchar

txn\_id varchar start\_txn\_time varchar

# product\_prices

id int

# Product\_hierarchy

id int

product\_id int

price int

product\_id varchar

price int

start\_date date

end\_date date

CASE STUDY QUESTIONS

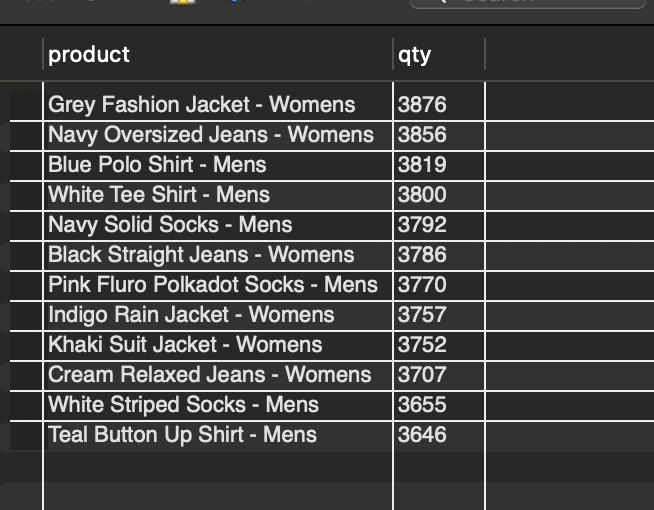
1. **What was the total quantity sold for all products?**

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

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

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1. **What was the total discount amount for all products?**

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

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1. **How many unique transactions were there?**

**select count(distinct txn\_id) from sales;**

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1. **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;**

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1. **What is the average discount value per transaction?**

**with cte\_discount as**

**(**

**select txn\_id, sum(discount \* qty \* price)/100 as discount from sales group by txn\_id**

**)**

**select round(avg(discount)) as avg\_discount from cte\_discount;**

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

**with cte\_revenue as**

**(**

**select member ,txn\_id, sum(qty\*price) as revenue from sales group by member,txn\_id**

**)**

**select member, round(avg(revenue)) as avg\_revenue from cte\_revenue group by member;**

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1. **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;**

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1. **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;**

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1. **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;**

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1. **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;** A screenshot of a black and white screen

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1. **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;**A screen shot of a product

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