

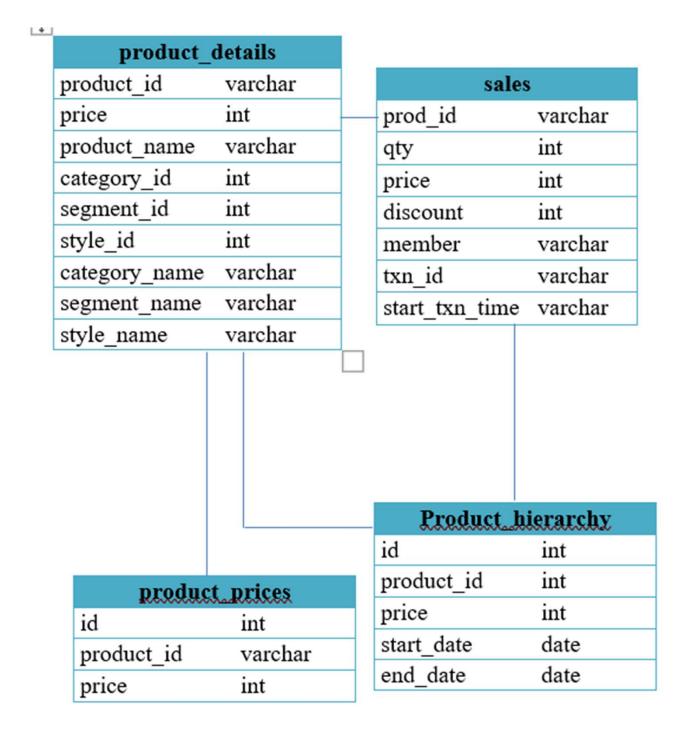
## **Description**

Texture Tales Clothing Company prides themselves on providing an optimized range of clothing and lifestyle wear for the modern adventurer. Analyze their sales performance and generate a basic financial report to share with the wider business.

### **Case Study Questions**

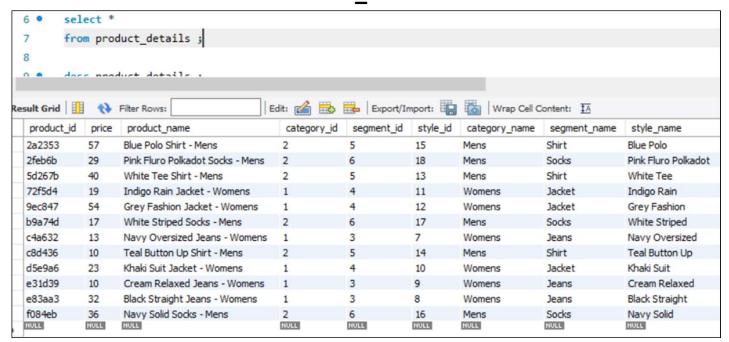
- 1. What was the total quantity sold for all products?
- 2. What is the total generated revenue for all products before discounts?
- 3. What was the total discount amount for all products?
- 4. How many unique transactions were there?
- 5. What are the average unique products purchased in each transaction?
- 6. What is the average discount value per transaction?
- 7. What is the average revenue for member transactions and non-member transactions?
- 8. What are the top 3 products by total revenue before discount?
- 9. What are the total quantity, revenue and discount for each segment?
- 10. What is the top selling product for each segment?
- 11. What are the total quantity, revenue and discount for each category?
- 12. What is the top selling product for each category?

## Schema

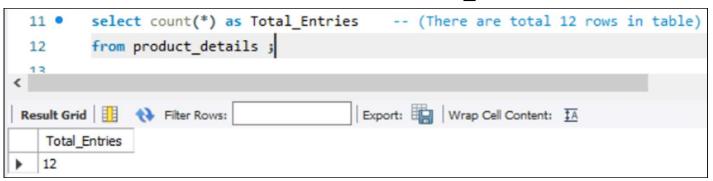


## **Details of Product\_Details table**

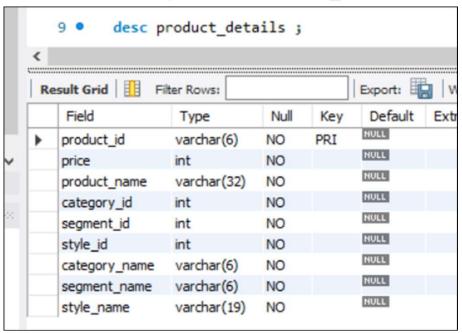
#### **Product Details table**



### There are total 12 entries in Product\_details table

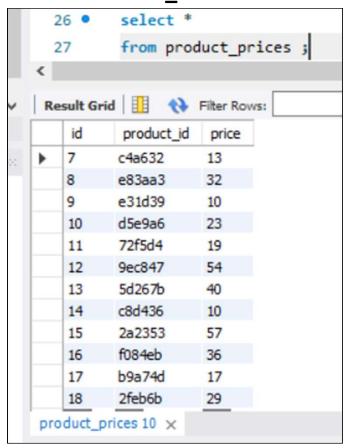


### Columns description in Product\_details table

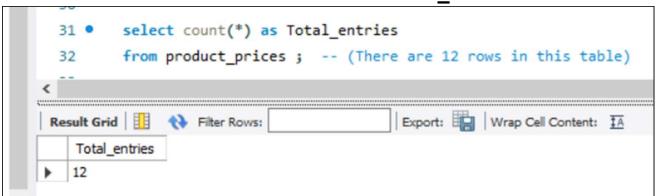


### **Details of Product\_Prices table**

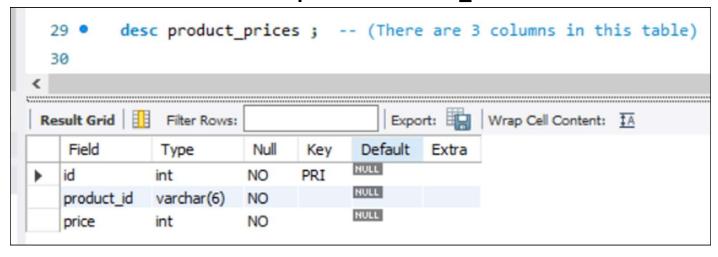
### **Product\_Prices table**



### There are total 12 entries in Product\_Prices table

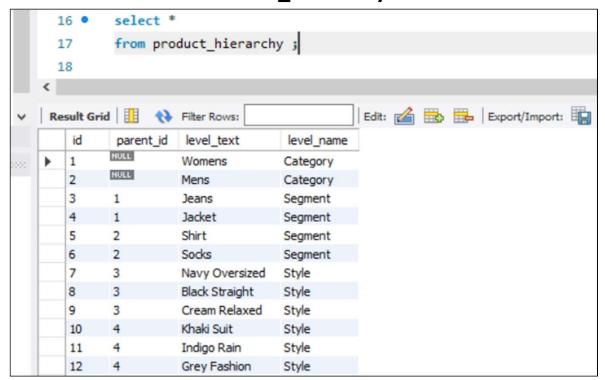


### **Columns description in Product\_Prices table**

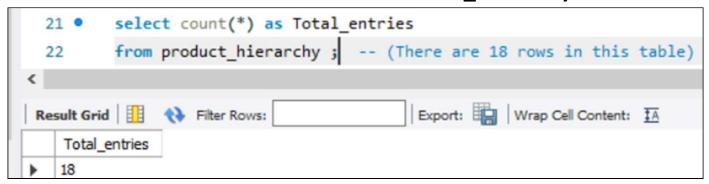


## **Details of Product\_Hierarchy table**

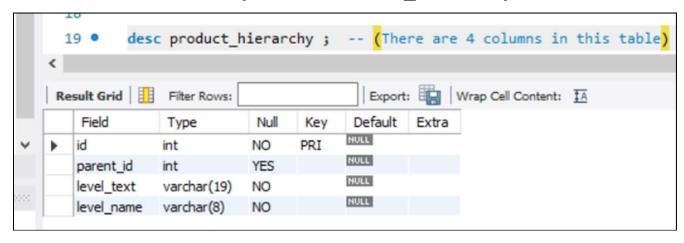
### **Product\_Hierarchy table**



### There are total 18 entries in Product\_Hierarchy table

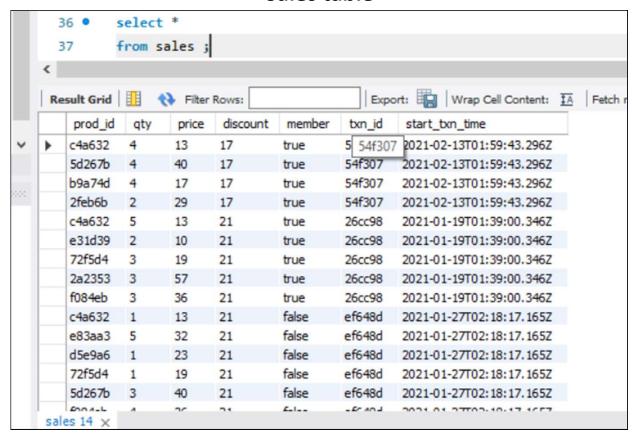


### **Columns description in Product\_Hierarchy table**

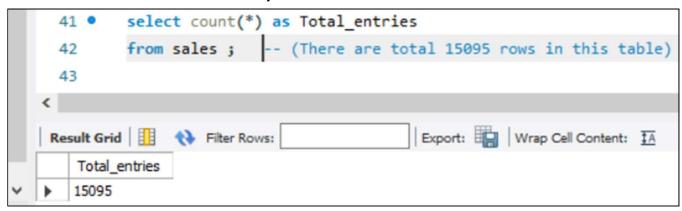


### **Details of Sales table**

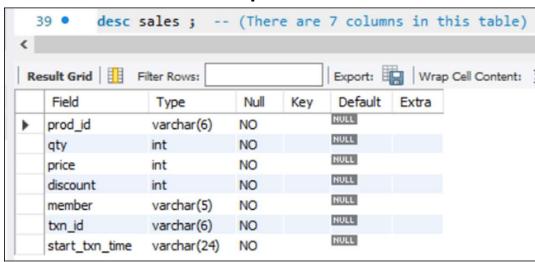
#### Sales table



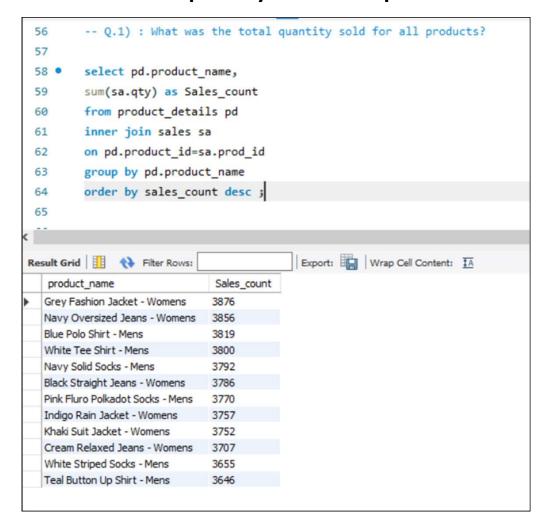
#### There are total 15,095 entries in Sales table



### **Columns description in Sales table**



### 1) What was the total quantity sold for all products?



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

```
-- Q.2) : What is the total generated revenue for all products before
 65
 66
        select *
        from sales;
 68
 69
        select sum(price*qty) as No_discount_revenue
 70 •
 71
        from sales;
 72
<
Export: Wrap Cell Content: TA
   No_discount_revenue
   1289453
```

### 3) What was the total discount amount for all products?

### 4) How many unique transactions were there?

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

```
87
         -- Q.5): What are the average unique products purchased in each transaction?
 88
        select *
 90 •
 91
        from sales;
 92
        with ctel as
 93 •

⊖ (select txn_id ,
 94
        count(distinct prod_id) as Total_count
 95
        from sales
 96
       group by txn_id )
 97
        select round(avg(total_count)) as avg_product
 98
 99
        from cte1;
100
                                     Export: Wrap Cell Content: IA
Result Grid Filter Rows:
   avg product
 6
```

### 6) What is the average discount value per transaction?

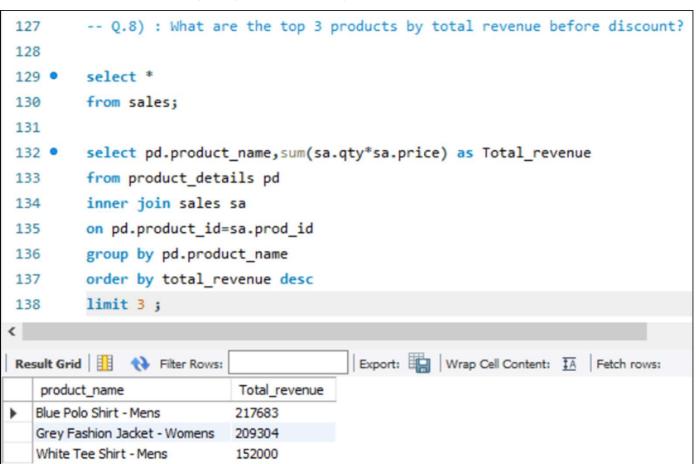
```
-- Q.6) : What is the average discount value per transaction?
102
103
      select *
104 •
       from sales;
105
106
        with cte2 as
107 •

⊖ (select txn_id , sum(price*qty*discount)/100 as Total_Discount
108
        from sales
109
       group by txn id )
110
111
         select round(avg(total_discount)) as Avg_discount_per_transaction
112
        from cte2;
Result Grid | Filter Rows:
                                      Export: Wrap Cell Content: TA
   Avg_discount_per_transaction
  62
```

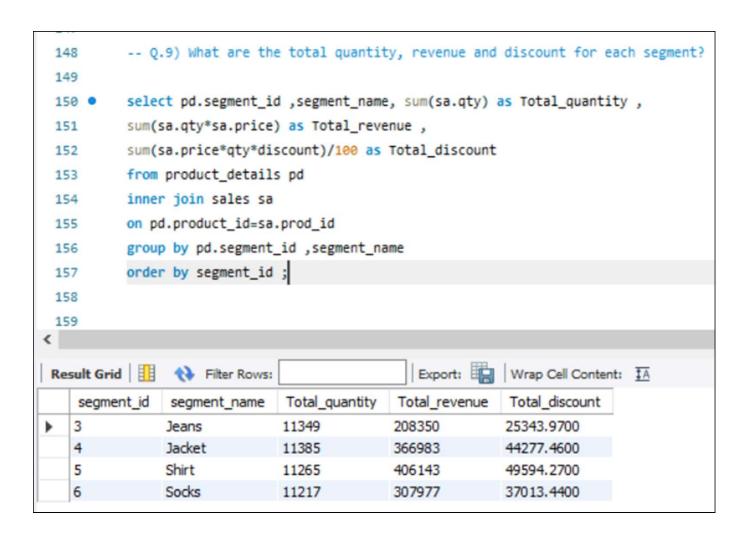
### 7) What is the average revenue for member transactions and nonmember transactions?

```
114
        -- Q.7): What is the average revenue for member transactions and non-member transactions?
115
        select *
116 •
117
        from sales ;
118
119 •
       with cte3 as
120
     121
        from sales
122
       group by member , txn id )
        select member , round(avg(total),2) as Avg revenue
123
       from cte3
124
125
        group by member;
126
                                  Export: Wrap Cell Content: TA
Result Grid Filter Rows:
  member
          Avg_revenue
  true
          516.27
  false
         515.04
```

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



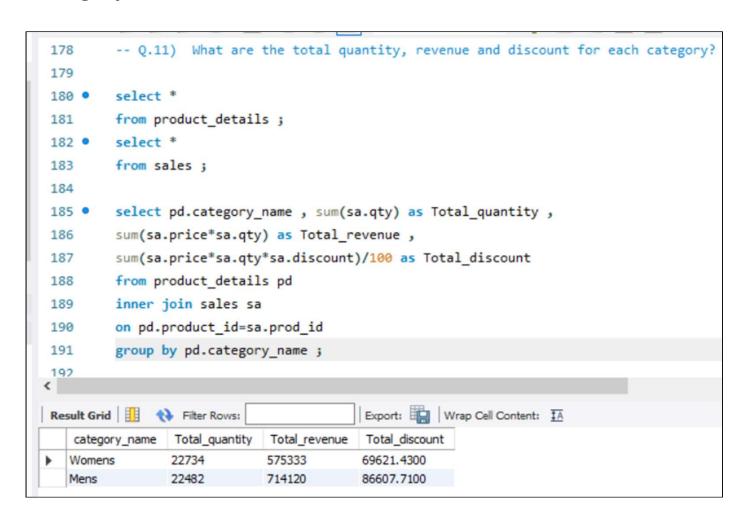
# 9) What are the total quantity, revenue and discount for each segment?



### 10) What is the top selling product for each segment?

```
160
         -- 0.10) What is the top selling product for each segment?
         select *
161 •
         from product_details ;
162
         select *
163 •
         from sales ;
164
165
         with ctel as
166
      (select segment_id, segment_name,product_id,product_name,sum(sa.qty) as Total
167
         from product_details pd
168
         inner join sales sa
169
         on pd.product id=sa.prod id
170
         group by segment_id, segment_name,product_id,product_name
171
       order by segment_id )
172
         select *
173
174
      dense_rank()over(partition by segment_id order by total desc ) ds
175
176
         from cte1) X
         where X.ds = 1;
177
178
                                           Export: Wrap Cell Content: TA
Result Grid
              Filter Rows:
                                                                        Total
   segment id
               segment name
                               product id
                                          product name
                                                                               ds
                                         Navy Oversized Jeans - Womens
  3
               Jeans
                              c4a632
                                                                        3856
                                                                               1
                                          Grev Fashion Jacket - Womens
               Jacket
                              9ec847
                                                                        3876
                                                                               1
                                          Blue Polo Shirt - Mens
  5
              Shirt
                              2a2353
                                                                        3819
                                                                               1
  6
               Socks
                              f084eb
                                         Navy Solid Socks - Mens
                                                                        3792
                                                                               1
```

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



### 12) What is the top selling product for each category?

```
-- Q.12) What is the top selling product for each category ?
195
196
          with cte4 as
197 •
       (select category_id, category_name , product_id , product_name , sum(sa.qty) as Total
198
          from product_details pd
199
          inner join sales sa
200
          on pd.product_id=sa.prod_id
201
          group by category_id, category_name ,product_name, product_id
202
        order by total desc )
203
204
205
          select *
          from
206
207

⊖ (select *,
          dense_rank()over(partition by category_name order by total desc) as Ds
208
        from cte4) X
209
          where X.ds = 1;
210
211
212
                                            Export: Wrap Cell Content: IA
Result Grid Filter Rows:
   category_id
                category_name
                                product_id
                                           product_name
                                                                        Total
                                                                               Ds
                               2a2353
                                           Blue Polo Shirt - Mens
   2
               Mens
                                                                       3819
                                                                              1
                                           Grey Fashion Jacket - Womens
   1
               Womens
                               9ec847
                                                                       3876
```