

Marketing Analysis for Marketing Campaigns at Sustainable Clothing Co.

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1. Introduction

You are a Marketing Analyst at the 'Sustainable Clothing Co.' and the company have been running several marketing campaigns and have asked you to provide your insight into that and tell them whether their campaigns are running successful or not. Analyze the datasets provided and answer the questions provided and also provide some others insights which help them to improve their marketing campaigns.



2. Problem Statement

- 1. How many Transactions are done during each Marketing Campaigns?
- 2. Which product has the highest sales quantity.
- 3. What is the total revenue generated from each marketing campaign?
- 4. What is the top-selling product category based on the total revenue generated?
- 5. Which products had a higher quantity sold compared to the average quantity sold?
- 6. What is the average revenue generated per day during the marketing campaigns?
- 7. What is the percentage contribution of each product to the total revenue?
- 8. Compare the average quantity sold during marketing campaigns to outside the marketing campaigns.
- 9. Compare the revenue generated by products inside the marketing campaigns to outside the campaigns
 - 10. Rank the products by their average daily quantity sold.

3. Datasets

Table 1: sustainable_clothing

		2	- 14	
campaign_id	campaign_name	product_id	start_date	end_date
1	Summer Sale	2	01-06-2023	30-06-2023
2	New Collection Launch	10	15-07-2023	15-08-2023
3	Super Save	7	20-08-2023	15-09-2023

Table 2: marketing_campaigns

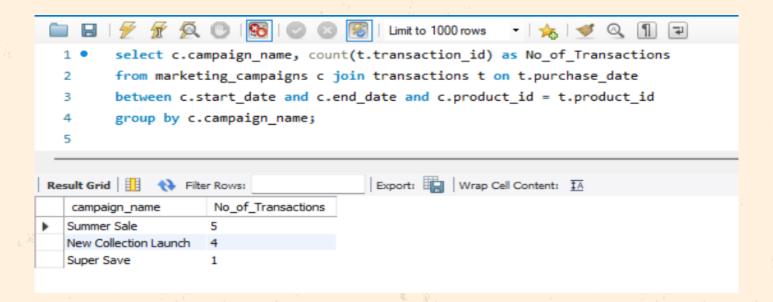
product_id	product_name	category	size	price
1	Organic Cotton T-Shirt	Tops	S	29.99
2	Recycled Denim Jeans	Bottoms	M	79.99
3	Hemp Crop Top	Tops	L	24.99
4	Bamboo Lounge Pants	Bottoms	XS	49.99
5	Eco-Friendly Hoodie	Outerwear	XL	59.99
6	Linen Button-Down Shirt	Tops	M	39.99
7	Organic Cotton Dress	Dresses	S	69.99
8	Sustainable Swim Shorts	Swimwear	L	34.99
9	Recycled Polyester Jacket	Outerwear	XL	89.99
10	Bamboo Yoga Leggings	Activewear	XS	54.99
11	Hemp Overalls	Bottoms	M	74.99
12	Organic Cotton Sweater	Tops	L	49.99
13	Cork Sandals	Footwear	S	39.99
14	Recycled Nylon Backpack	Accessories	One Size	59.99
15	Organic Cotton Skirt	Bottoms	XS	34.99
16	Hemp Baseball Cap	Accessories	One Size	24.99
17	Upcycled Denim Jacket	Outerwear	M	79.99
18	Linen Jumpsuit	Dresses	L	69.99
19	Organic Cotton Socks	Accessories	M	9.99
20	Bamboo Bathrobe	Loungewear	XL	69.99

Table 3: transactions

transaction_id	product_id	quantity	purchase_date
1	2	2	02-06-2023
2	14	1	02-06-2023
3	5	2	05-06-2023
4	2	1	07-06-2023
5	19	2	10-06-2023
6	2	1	13-06-2023
7	16	1	13-06-2023
8	10	2	15-06-2023
9	2	1	18-06-2023
10	4	1	22-06-2023
11	18	2	26-06-2023
12	2	1	30-06-2023
13	13	1	30-06-2023
14	4	1	04-07-2023
15	6	2	08-07-2023
16	15	1	08-07-2023
17	9	2	12-07-2023
18	20	1	12-07-2023
19	11	1	16-07-2023
20	10	1	20-07-2023
21	12	2	24-07-2023

Case Study Questions

1. How many Transactions are done during each Marketing Campaigns?

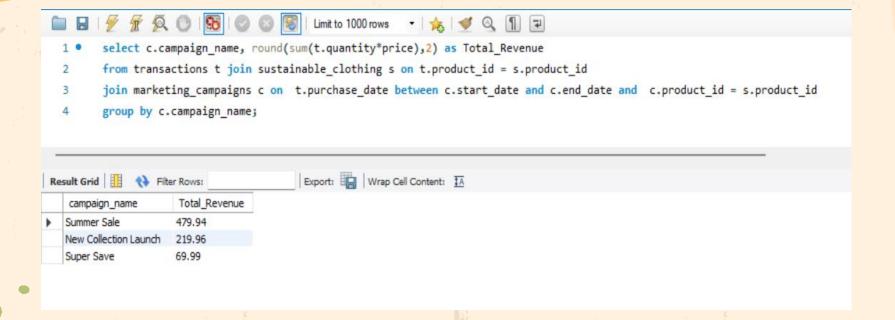




2. Which product has the highest sales quantity.

```
Limit to 1000 rows
        with cte as
         ( select t.product_id,product_name,sum(quantity) as Total_quantity_sold
        from transactions t
  3
          join sustainable_clothing s on t.product_id = s.product_id
  4
          group by 1,2
  5
  6
         order by Total quantity sold desc)
          select * from cte where Total_quantity_sold in (select max(Total_quantity_sold) from cte);
Result Grid
                                       Export:
             Filter Rows:
                                                  Wrap Cell Content: IA
                                  Total_quantity_sold
   product id
             product_name
  12
            Organic Cotton Sweater
```

3. What is the total revenue generated from each marketing campaign?

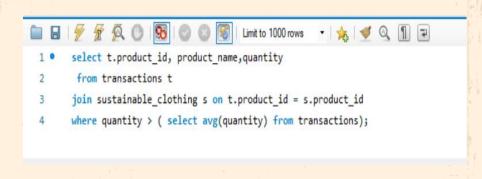


4. What is the top-selling product category based on the total revenue generated?

```
Limit to 1000 rows
  1 • ○ with cte as (select s.category, round(sum(t.quantity * price),2) as Total_Revenue
         from transactions t join
         sustainable_clothing s on t.product_id = s.product_id
          group by 1 order by Total_revenue desc)
         select * from cte where Total_Revenue in (select max(Total_Revenue) from cte);
  5
Result Grid
             Filter Rows:
                                       Export: Wrap Cell Content: $\frac{1}{4}
   category
            Total_Revenue
  Bottoms
            1289.79
```

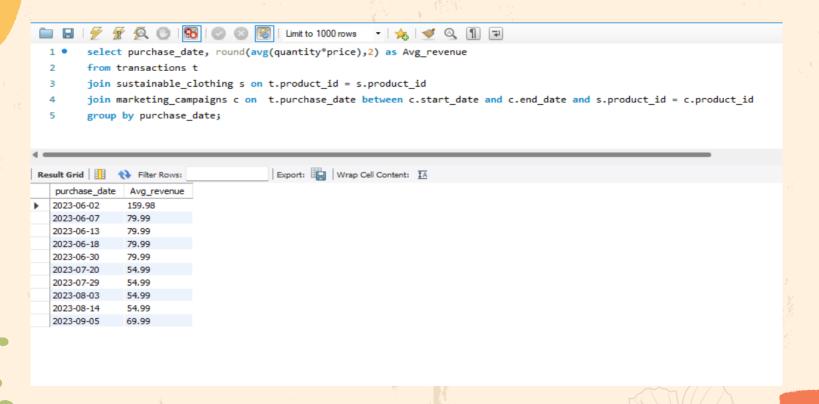


5. Which products had a higher quantity sold compared to the average quantity sold?

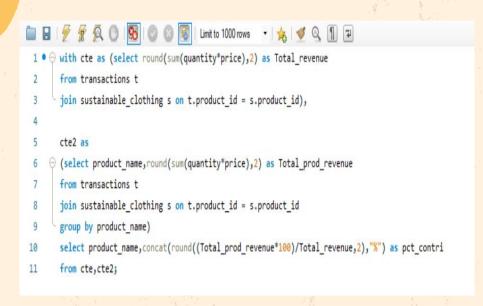


	product_id	product_name	quantity	
•	2	Recycled Denim Jeans	2	_
	5	Eco-Friendly Hoodie	2	
	19	Organic Cotton Socks	2	
	10	Bamboo Yoga Leggings	2	
	18	Linen Jumpsuit	2	
	6	Linen Button-Down Shirt	2	
	9	Recycled Polyester Jacket	2	
	12	Organic Cotton Sweater	2	
	19	Organic Cotton Socks	2	
	16	Hemp Baseball Cap	2	
	12	Organic Cotton Sweater	2	
	15	Organic Cotton Skirt	2	
	11	Hemp Overalls	2	
	5	Eco-Friendly Hoodie	2	
	12	Organic Cotton Sweater	2	
	18	Linen Jumpsuit	2	
	12	Organic Cotton Sweater	2	
	4	Bamboo Lounge Pants	2	
	8	Sustainable Swim Shorts	2	
	18	Linen Jumpsuit	2	
	15	Organic Cotton Skirt	2	
	17	Upcycled Denim Jacket	2	
	10	Bamboo Yoga Leggings	2	
	19	Organic Cotton Socks	2	

6. What is the average revenue generated per day during the marketing campaigns?

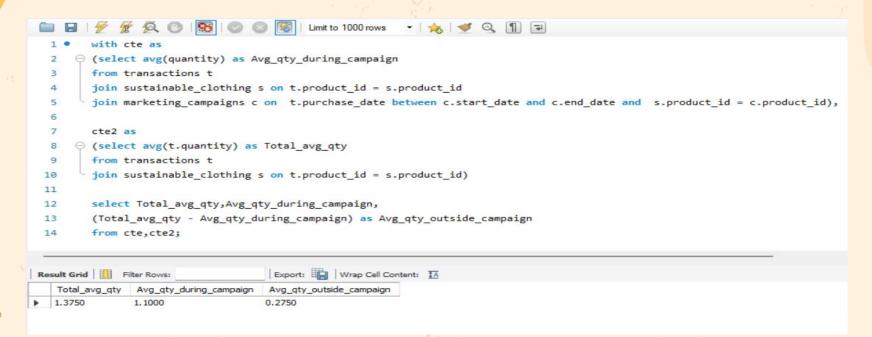


7. What is the percentage contribution of each product to the total revenue?



	product_name	pct_contr
۰	Organic Cotton T-Shirt	1.28%
	Recycled Denim Jeans	13.71%
	Hemp Crop Top	0.54%
	Bamboo Lounge Pants	5.35%
	Eco-Friendly Hoodie	6.42%
	Linen Button-Down Shirt	2.57%
	Organic Cotton Dress	4.5%
	Sustainable Swim Shorts	1.5%
	Recycled Polyester Jacket	7.71%
	Bamboo Yoga Leggings	9.42%
	Hemp Overalls	4.82%
	Organic Cotton Sweater	9.64%
	Cork Sandals	3.43%
	Recycled Nylon Backpack	2.57%
	Organic Cotton Skirt	3.75%
	Hemp Baseball Cap	2.68%
	Upcycled Denim Jacket	5.14%
	Linen Jumpsuit	10.49%
	Organic Cotton Socks	1.5%
	Bamboo Bathrobe	3%

8. Compare the average quantity sold during marketing campaigns to outside the marketing campaigns.



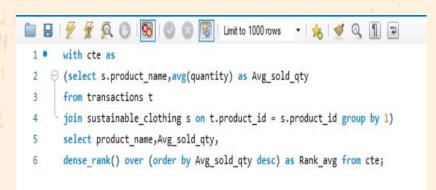


9. Compare the revenue generated by products inside the marketing campaigns to outside the campaigns

```
Limit to 1000 rows
        with cte as
     ( select round(sum(quantity*price),2) as Total rev during campaign
        from transactions t
        join sustainable clothing s on t.product id = s.product id
        join marketing campaigns c on t.purchase date between c.start date and c.end date and t.product id = c.product id),
        cte2 as
     from transactions t
        join sustainable_clothing s on t.product_id = s.product_id)
 10
 11
        select Total revenue, Total rev during campaign,
 12
           Total_revenue - Total_rev_during_campaign as Total_rev_outside_campaign
 13
 14
            from cte,cte2;
 15
Result Grid | Filter Rows:
                                   Export: Wrap Cell Content: IA
              Total_rev_during_campaign
                                  Total_rev_outside_campaign
  4669.12
              769.89
                                   3899.23
```



10. Rank the products by their average daily quantity sold.



Re	sult Grid Filter Rows:		Export: Wrap Cell Content: IA
	product_name	Avg_sold_qty	Rank_avg
•	Sustainable Swim Shorts	2.0000	1
	Organic Cotton Sweater	1.8000	2
	Linen Jumpsuit	1.7500	3
	Organic Cotton Socks	1.7500	3
	Eco-Friendly Hoodie	1.6667	4
	Organic Cotton Skirt	1.6667	4
	Linen Button-Down Shirt	1.5000	5
	Hemp Overalls	1.5000	5
	Upcycled Denim Jacket	1.5000	5
	Recycled Polyester Jacket	1.3333	6
	Bamboo Yoga Leggings	1.3333	6
	Bamboo Lounge Pants	1.2500	7
	Hemp Baseball Cap	1.2500	7
	Recycled Denim Jeans	1.1429	8
	Organic Cotton T-Shirt	1.0000	9
	Hemp Crop Top	1.0000	9
	Organic Cotton Dress	1.0000	9
	Cork Sandals	1.0000	9
	Recycled Nylon Backpack	1.0000	9
	Bamboo Bathrobe	1.0000	9

The following topics are completely covered in this case study:

- Joins in SQL
- Where clause
- Aggregate functions
- Group by clause
- Order by clause
- Limit in SQL
- Window Functions
- CTEs

The following insights can be gathered for this case study:

- The Summer Sale has the maximum number of transactions with the total revenue of 480, i.e., it has the maximum success rate as compared to the other campaigns.
- Organic cotton sweater is the Hot Selling Product, while Recycled Denim jeans has given the maximum revenue i.e., 13%.
- The maximum average revenue that has been generated in a day of campaign is 159.9 after that the revenue goes on decreasing.
- The average number of quantities sold is more during campaigns but the total revenue generated is more outside the campaign as compared to the total revenue during campaign

Thanks!

CREDITS: This presentation template was created by <u>Slidesgo</u>, and includes icons by <u>Flaticon</u>, and infographics & images by <u>Freepik</u>

