

Sustainable Clothing Co.

Marketing Analysis

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Marketing Analysis



Intro

You are a Marketing Analyst

The 'Sustainable Clothing Co.' have been running several marketing campaigns and have asked you to provide your insight into whether they have been successful or not. Analyse the following data and answer the questions to form your answer.

Tables

Tables

Here are the tables you will be using

sustainable_clothing

| 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 |

marketing_campaigns

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

transactions (first 10 shown)

| transaction_id | product_id | quantity | purchase_date |
|----------------|------------|----------|---------------|
| 1 | 2 | 2 | 2023-06-02 |
| 1 | 14 | 1 | 2023-06-02 |
| 2 | 5 | 2 | 2023-06-05 |
| 3 | 2 | 1 | 2023-06-07 |
| 4 | 19 | 2 | 2023-06-10 |
| 5 | 2 | 1 | 2023-06-13 |
| 5 | 16 | 1 | 2023-06-13 |
| 6 | 10 | 2 | 2023-06-15 |
| 7 | 2 | 1 | 2023-06-18 |
| 8 | 4 | 1 | 2023-06-22 |
| 9 | 18 | 2 | 2023-06-26 |
| 10 | 2 | 1 | 2023-06-30 |
| 10 | 13 | 1 | 2023-06-30 |

Questions

- ▶ 1. How many transactions were completed during each marketing campaign?
- ▶ 2. Which product had 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

1. How many transactions were completed during each marketing campaign?

Schema SQL

```
-- Schema SQL
100 (43, 1, 1, '2023-10-01'),
101 (44, 7, 1, '2023-10-02'),
102 (45, 18, 2, '2023-10-03'),
103 (46, 12, 1, '2023-10-03'),
104 (47, 13, 1, '2023-10-04'),
105 (48, 4, 1, '2023-10-05'),
106 (49, 12, 2, '2023-10-05'),
107 (50, 7, 1, '2023-10-06'),
108 (51, 4, 2, '2023-10-08'),
109 (52, 8, 2, '2023-10-08'),
110 (53, 16, 1, '2023-10-09'),
111 (54, 19, 1, '2023-10-09'),
112 (55, 1, 1, '2023-10-10'),
113 (56, 18, 2, '2023-10-10'),
114 (57, 2, 1, '2023-10-10'),
115 (58, 15, 2, '2023-10-11'),
116 (59, 17, 2, '2023-10-13'),
117 (60, 13, 1, '2023-10-13'),
118 (61, 10, 2, '2023-10-13'),
119 (62, 9, 1, '2023-10-13'),
120 (63, 19, 2, '2023-10-13'),
121 (64, 20, 1, '2023-10-14')
```

Text to DDL

Query SQL

```
1 # 1. How many transactions were completed during each marketing campaign?
2
3 SELECT
4 campaign_name,
5 COUNT
6 (marketing_campaigns.product_id) AS total_transactions
7 FROM
8 marketing_campaigns
9
10 INNER JOIN transactions ON
11 transactions.product_id = marketing_campaigns.product_id -- we are inner joining transactions to
marketing_campaigns using product_id key
12
13 GROUP BY campaign_name
14 ORDER BY total_transactions DESC;
```

Copy as Markdown

Results

Query #1 Execution time: 0ms

| campaign_name | total_transactions |
|-----------------------|--------------------|
| Summer Sale | 7 |
| New Collection Launch | 6 |
| Super Save | 3 |

2. Which product had the highest sales quantity?

Schema SQL

```
36 product_id INT,  
37 start_date DATE,  
38 end_date DATE,  
39 FOREIGN KEY (product_id) REFERENCES sustainable_clothing (product_id)  
40 );  
41 -- Insert data into the table  
42 INSERT INTO marketing_campaigns (campaign_id, campaign_name, product_id, start_date, end_date)  
43 VALUES  
44 (1, 'Summer Sale', 2, '2023-06-01', '2023-06-30'),  
45 (2, 'New Collection Launch', 10, '2023-07-15', '2023-08-15'),  
46 (3, 'Super Save', 7, '2023-08-20', '2023-09-15');  
47 -- Create the table  
48 CREATE TABLE transactions (  
49 transaction_id INT PRIMARY KEY,  
50 product_id INT,  
51 quantity INT,  
52 purchase_date DATE,  
53 FOREIGN KEY (product_id) REFERENCES sustainable_clothing (product_id)  
54 );  
55 -- Insert data into the table  
56 INSERT INTO transactions (transaction_id, product_id, quantity, purchase_date)  
57 VALUES  
58 (1, 2, 2, '2023-06-02').
```

Text to DDL

Results

Query #1 Execution time: 0ms

| name_of_product | total_qty_sold |
|------------------------|----------------|
| Organic Cotton Sweater | 9 |
| Recycled Denim Jeans | 8 |
| Bamboo Yoga Leggings | 8 |
| Linen Jumpsuit | 7 |
| Organic Cotton Socks | 7 |

Query SQL

```
1 # 2. Which product had the highest sales quantity?  
2  
3 SELECT  
4 (sustainable_clothing.product_name) AS name_of_product, -- to get the product name at initial level  
5  
6 SUM(transactions.quantity) AS total_qty_sold  
7  
8 FROM  
9 transactions  
10  
11 LEFT JOIN sustainable_clothing ON  
12 sustainable_clothing.product_id = transactions.product_id -- we are left joining sustainable_clothing to  
13 transactions using product_id key  
14  
15 GROUP BY product_name  
16  
17 ORDER BY total_qty_sold DESC  
18  
19 LIMIT 5; -- I have limited the rows to 5, there are more records  
20  
21
```

Copy as Markdown

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

Schema SQL

```
43 VALUES
44 (1, 'Summer Sale', 2, '2023-06-01', '2023-06-30'),
45 (2, 'New Collection Launch', 10, '2023-07-15', '2023-08-15'),
46 (3, 'Super Save', 7, '2023-08-20', '2023-09-15');
47 -- Create the table
48 CREATE TABLE transactions (
49 transaction_id INT PRIMARY KEY,
50 product_id INT,
51 quantity INT,
52 purchase_date DATE,
53 FOREIGN KEY (product_id) REFERENCES sustainable_clothing (product_id)
54 );
55 -- Insert data into the table
56 INSERT INTO transactions (transaction_id, product_id, quantity, purchase_date)
57 VALUES
58 (1, 2, 2, '2023-06-02'),
59 (2, 14, 1, '2023-06-02'),
60 (3, 5, 2, '2023-06-05'),
61 (4, 2, 1, '2023-06-07'),
62 (5, 19, 2, '2023-06-10'),
63 (6, 2, 1, '2023-06-13'),
64 (7, 16, 1, '2023-06-13'),
65 (8, 10, 2, '2023-06-14');
```

Text to DDL

Query SQL

```
1 # 3. What is the total revenue generated from each marketing campaign?
2
3 SELECT
4     campaign_name,
5     ROUND(SUM(sustainable_clothing.price) * SUM(transactions.quantity),2) AS total_revenue -- We need to aggregate
6     price & -- quantity and multiply it.
7 FROM marketing_campaigns
8
9 INNER JOIN sustainable_clothing ON sustainable_clothing.product_id = marketing_campaigns.product_id -- As we are
10 finding revenue through campaign from product we are INNER JOINING through product_id key
11
12 INNER JOIN transactions ON marketing_campaigns.product_id = transactions.product_id -- in the 7th line we are
13 aggregating metrics from 2 different tables it is essential to join transactions to marketing_campaigns using
14 product_id key
15
16 GROUP BY 1 -- Groups the statement as campaign_name
17 ORDER BY 2 DESC; -- orders it by the highest return on ads
18
```

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Results

Query #1 Execution time: 0ms

| campaign_name | total_revenue |
|-----------------------|---------------|
| Summer Sale | 4479.44 |
| New Collection Launch | 2639.52 |
| Super Save | 629.91 |

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

Schema SQL

```
1 -- Create the table
2 CREATE TABLE sustainable_clothing (
3   product_id INT PRIMARY KEY,
4   product_name VARCHAR(100),
5   category VARCHAR(50),
6   size VARCHAR(10),
7   price FLOAT
8 );
9 -- Insert data into the table
10 INSERT INTO sustainable_clothing (product_id, product_name, category, size, price)
11 VALUES
12 (1, 'Organic Cotton T-Shirt', 'Tops', 'S', 29.99),
13 (2, 'Recycled Denim Jeans', 'Bottoms', 'M', 79.99),
14 (3, 'Hemp Crop Top', 'Tops', 'L', 24.99),
15 (4, 'Bamboo Lounge Pants', 'Bottoms', 'XS', 49.99),
16 (5, 'Eco-Friendly Hoodie', 'Outerwear', 'XL', 59.99),
17 (6, 'Linen Button-Down Shirt', 'Tops', 'M', 39.99),
18 (7, 'Organic Cotton Dress', 'Dresses', 'S', 69.99),
19 (8, 'Sustainable Swim Shorts', 'Swimwear', 'L', 34.99),
20 (9, 'Recycled Polyester Jacket', 'Outerwear', 'XL', 89.99),
21 (10, 'Bamboo Yoga Leggings', 'Activewear', 'XS', 54.99),
22 (11, 'Hemp Overalls', 'Bottoms', 'M', 74.99);
```

Text to DDL

Query SQL

```
1 # 4. What is the top-selling product category based on the total revenue generated?
2
3 SELECT
4   category,
5   ROUND(SUM(transactions.quantity) * SUM(sustainable_clothing.price), 2) AS total_revenue -- aggregating quantity
6   *price for total revenue
7 FROM sustainable_clothing
8
9 INNER JOIN transactions ON
10   sustainable_clothing.product_id = transactions.product_id -- We are inner joining sustainable_clothing to
11   transactions using product_id as key
12
13 GROUP BY category
14
15 ORDER BY total_revenue DESC;
```

Copy as Markdown

Results

| category | total_revenue |
|-------------|---------------|
| Bottoms | 21311.64 |
| Outerwear | 7319.04 |
| Tops | 6223.5 |
| Dresses | 4899.3 |
| Accessories | 3638.6 |
| Activewear | 2639.52 |
| Footwear | 639.84 |

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

Schema SQL

```
1 -- Create the table
2 CREATE TABLE sustainable_clothing (
3   product_id INT PRIMARY KEY,
4   product_name VARCHAR(100),
5   category VARCHAR(50),
6   size VARCHAR(10),
7   price FLOAT
8 );
9 -- Insert data into the table
10 INSERT INTO sustainable_clothing (product_id, product_name, category, size, price)
11 VALUES
12 (1, 'Organic Cotton T-Shirt', 'Tops', 'S', 29.99),
13 (2, 'Recycled Denim Jeans', 'Bottoms', 'M', 79.99),
14 (3, 'Hemp Crop Top', 'Tops', 'L', 24.99),
15 (4, 'Bamboo Lounge Pants', 'Bottoms', 'XS', 49.99),
16 (5, 'Eco-Friendly Hoodie', 'Outerwear', 'XL', 59.99),
17 (6, 'Linen Button-Down Shirt', 'Tops', 'M', 39.99),
18 (7, 'Organic Cotton Dress', 'Dresses', 'S', 69.99),
19 (8, 'Sustainable Swim Shorts', 'Swimwear', 'L', 34.99),
20 (9, 'Recycled Polyester Jacket', 'Outerwear', 'XL', 89.99),
21 (10, 'Bamboo Yoga Leggings', 'Activewear', 'XS', 54.99),
22 (11, 'Hemp Overalls', 'Bottoms', 'M', 74.99),
23 ...
```

Text to DDL

Query SQL

```
1 # 5. Which products had a higher quantity sold compared to the average quantity sold?
2
3 SELECT
4   product_name,
5   SUM(transactions.quantity) AS total_qty,
6   ROUND(AVG(transactions.quantity), 2) AS avg_qty
7 FROM sustainable_clothing
8
9 INNER JOIN transactions ON
10  sustainable_clothing.product_id = transactions.product_id -- We are inner joining sustainable_clothing to
11  transactions using product_id as key
12
13 GROUP BY 1
14
15 ORDER BY 2 DESC
16
17 LIMIT 7;
```

Copy as Markdown

Results

| product_name | total_qty | avg_qty |
|------------------------|-----------|---------|
| Organic Cotton Sweater | 9 | 1.80 |
| Bamboo Yoga Leggings | 8 | 1.33 |
| Recycled Denim Jeans | 8 | 1.14 |
| Organic Cotton Socks | 7 | 1.75 |
| Linen Jumpsuit | 7 | 1.75 |
| Organic Cotton Skirt | 5 | 1.67 |
| Eco-Friendly Hoodie | 5 | 1.67 |

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

Schema SQL

```
1 -- Create the table
2 CREATE TABLE sustainable_clothing (
3   product_id INT PRIMARY KEY,
4   product_name VARCHAR(100),
5   category VARCHAR(50),
6   size VARCHAR(10),
7   price FLOAT
8 );
9 -- Insert data into the table
10 INSERT INTO sustainable_clothing (product_id, product_name, category, size, price)
11 VALUES
12 (1, 'Organic Cotton T-Shirt', 'Tops', 'S', 29.99),
13 (2, 'Recycled Denim Jeans', 'Bottoms', 'M', 79.99),
14 (3, 'Hemp Crop Top', 'Tops', 'L', 24.99),
15 (4, 'Bamboo Lounge Pants', 'Bottoms', 'XS', 49.99),
16 (5, 'Eco-Friendly Hoodie', 'Outerwear', 'XL', 59.99),
17 (6, 'Linen Button-Down Shirt', 'Tops', 'M', 39.99),
18 (7, 'Organic Cotton Dress', 'Dresses', 'S', 69.99),
19 (8, 'Sustainable Swim Shorts', 'Swimwear', 'L', 34.99),
20 (9, 'Recycled Polyester Jacket', 'Outerwear', 'XL', 89.99),
21 (10, 'Bamboo Yoga Leggings', 'Activewear', 'XS', 54.99),
22 (11, 'Hemp Overalls', 'Bottoms', 'M', 74.99),
23 ...
```

Text to DDL

Query SQL

```
1 # 6. What is the average revenue generated per day during the marketing campaigns?
2 SELECT
3   mc.campaign_name,
4   -- MIN(DAY(mc.start_date)) AS starting_day,
5   -- MAX(DAY(mc.end_date)) AS ending_day,
6   DATEDIFF(MAX(mc.end_date), MIN(mc.start_date)) AS campaign_period_days,
7   ROUND(AVG(tr.avg_revenue), 2) AS avg_revenue_per_day
8 FROM marketing_campaigns mc
9   INNER JOIN (
10     SELECT
11       DAY(t.purchase_date) AS transaction_day,
12       t.product_id,
13       ROUND(AVG(sc.price * t.quantity), 2) avg_revenue
14     FROM transactions t
15     INNER JOIN sustainable_clothing sc ON t.product_id = sc.product_id
16     GROUP BY 1, t.product_id
17   ) AS tr ON mc.product_id = tr.product_id
18
19 GROUP BY mc.campaign_name
20
21 ORDER BY avg_revenue_per_day;
22
```

Copy as Markdown

Results

Query #1 Execution time: 1ms

| campaign_name | campaign_period_days | avg_revenue_per_day |
|-----------------------|----------------------|---------------------|
| Super Save | 26 | 69.99 |
| New Collection Launch | 31 | 73.32 |
| Summer Sale | 29 | 91.42 |

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

Schema SQL

```
1 -- Create the table
2 CREATE TABLE sustainable_clothing (
3 product_id INT PRIMARY KEY,
4 product_name VARCHAR(100),
5 category VARCHAR(50),
6 size VARCHAR(10),
7 price FLOAT
8 );
9 -- Insert data into the table
10 INSERT INTO sustainable_clothing (product_id, product_name, category, size, price)
11 VALUES
12 (1, 'Organic Cotton T-Shirt', 'Tops', 'S', 29.99),
13 (2, 'Recycled Denim Jeans', 'Bottoms', 'M', 79.99),
14 (3, 'Hemp Crop Top', 'Tops', 'L', 24.99),
15 (4, 'Bamboo Lounge Pants', 'Bottoms', 'XS', 49.99),
16 (5, 'Eco-Friendly Hoodie', 'Outerwear', 'XL', 59.99),
17 (6, 'Linen Button-Down Shirt', 'Tops', 'M', 39.99),
18 (7, 'Organic Cotton Dress', 'Dresses', 'S', 69.99),
19 (8, 'Sustainable Swim Shorts', 'Swimwear', 'L', 34.99),
20 (9, 'Recycled Polyester Jacket', 'Outerwear', 'XL', 89.99),
21 (10, 'Bamboo Yoga Leggings', 'Activewear', 'XS', 54.99),
22 (11, 'Hemp Overalls', 'Bottoms', 'M', 74.99),
23 ...
```

Text to DDL

Query SQL

```
1 #7. What is the percentage contribution of each product to the total revenue?
2
3 SELECT
4     sc.product_name,
5     ROUND(SUM(tr.quantity * sc.price), 2) AS total_revenue,
6     ROUND((SUM(tr.quantity * sc.price) / (SELECT SUM(tr.quantity * sc.price) FROM sustainable_clothing sc INNER
7 JOIN transactions tr ON sc.product_id = tr.product_id)) * 100, 2) AS revenue_share
8 FROM
9     sustainable_clothing sc
10 INNER JOIN
11     transactions tr ON sc.product_id = tr.product_id
12 GROUP BY
13     sc.product_name
14 ORDER BY
15     total_revenue DESC
16 LIMIT 7;
17
```

Copy as Markdown

Results

| product_name | total_revenue | revenue_share |
|---------------------------|---------------|---------------|
| Recycled Denim Jeans | 639.92 | 13.71 |
| Linen Jumpsuit | 489.93 | 10.49 |
| Organic Cotton Sweater | 449.91 | 9.64 |
| Bamboo Yoga Leggings | 439.92 | 9.42 |
| Recycled Polyester Jacket | 359.96 | 7.71 |
| Eco-Friendly Hoodie | 299.95 | 6.42 |
| Bamboo Lounge Pants | 249.95 | 5.35 |

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

Schema SQL

```
11 (20, bamboo batnroe , Loungewear , XL , 69.99);
12 -- Create the table
13 CREATE TABLE marketing_campaigns (
14 campaign_id INT PRIMARY KEY,
15 campaign_name VARCHAR(100),
16 product_id INT,
17 start_date DATE,
18 end_date DATE,
19 FOREIGN KEY (product_id) REFERENCES sustainable_clothing (product_id)
20 );
21 -- Insert data into the table
22 INSERT INTO marketing_campaigns (campaign_id, campaign_name, product_id, start_date, end_date)
23 VALUES
24 (1, 'Summer Sale', 2, '2023-06-01', '2023-06-30'),
25 (2, 'New Collection Launch', 10, '2023-07-15', '2023-08-15'),
26 (3, 'Super Save', 7, '2023-08-20', '2023-09-15');
27 -- Create the table
28 CREATE TABLE transactions (
29 transaction_id INT PRIMARY KEY,
30 product_id INT,
31 quantity INT,
32 purchase_date DATE,
33 FOREIGN KEY (product_id) REFERENCES sustainable_clothing (product_id)
34 );
```

Text to DDL

Query SQL

```
1 #8. Compare the average quantity sold during marketing campaigns to outside the marketing campaigns
2
3 SELECT
4 CASE WHEN mc.campaign_name IS NOT NULL THEN 'In Campaign' ELSE 'Outside Campaign' END AS campaign_category,
5 ROUND(AVG(tr.quantity), 2) AS avg_qty
6 FROM
7 transactions tr
8 LEFT JOIN
9 marketing_campaigns mc ON mc.product_id = tr.product_id
10 GROUP BY
11 campaign_category
12 ORDER BY
13 campaign_category;
```

Copy as Markdown

Results

Query #1 Execution time: 1ms

| campaign_category | avg_qty |
|-------------------|---------|
| In Campaign | 1.19 |
| Outside Campaign | 1.44 |

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

Schema SQL

```
2 CREATE TABLE sustainable_clothing (  
3   product_id INT PRIMARY KEY,  
4   product_name VARCHAR(100),  
5   category VARCHAR(50),  
6   size VARCHAR(10),  
7   price FLOAT  
8 );  
9 -- Insert data into the table  
10 INSERT INTO sustainable_clothing (product_id, product_name, category, size, price)  
11 VALUES  
12 (1, 'Organic Cotton T-Shirt', 'Tops', 'S', 29.99),  
13 (2, 'Recycled Denim Jeans', 'Bottoms', 'M', 79.99),  
14 (3, 'Hemp Crop Top', 'Tops', 'L', 24.99),  
15 (4, 'Bamboo Lounge Pants', 'Bottoms', 'XS', 49.99),  
16 (5, 'Eco-Friendly Hoodie', 'Outerwear', 'XL', 59.99),  
17 (6, 'Linen Button-Down Shirt', 'Tops', 'M', 39.99),  
18 (7, 'Organic Cotton Dress', 'Dresses', 'S', 69.99),  
19 (8, 'Sustainable Swim Shorts', 'Swimwear', 'L', 34.99),  
20 (9, 'Recycled Polyester Jacket', 'Outerwear', 'XL', 89.99),  
21 (10, 'Bamboo Yoga Leggings', 'Activewear', 'XS', 54.99),  
22 (11, 'Hemp Overalls', 'Bottoms', 'M', 74.99),  
23 (12, 'Organic Cotton Sweater', 'Tops', 'L', 49.99),  
24 (13, 'Cork Sandals', 'Footwear', 'S', 39.99),
```

Text to DDL

Query SQL

```
1 #9. Compare the revenue generated by products inside the marketing campaigns to outside the campaigns  
2  
3 SELECT  
4   CASE WHEN mc.campaign_name IS NOT NULL THEN 'In Campaign' ELSE 'Outside Campaign' END AS campaign_category,  
5   ROUND(SUM(tr.quantity) * SUM(sc.price), 2) AS total_revenue  
6 FROM  
7   transactions tr  
8   LEFT JOIN  
9     marketing_campaigns mc ON mc.product_id = tr.product_id  
10  LEFT JOIN  
11    sustainable_clothing sc ON sc.product_id = tr.product_id  
12 GROUP BY  
13   campaign_category  
14 ORDER BY  
15   campaign_category;
```

Copy as Markdown

Results

Query #1

Execution time: 1ms

| campaign_category | total_revenue |
|-------------------|---------------|
| In Campaign | 20896.96 |
| Outside Campaign | 162461.88 |

10. Rank the products by their average daily quantity sold

Schema SQL

```
100 (43, 1, 1, '2023-10-01'),
101 (44, 7, 1, '2023-10-02'),
102 (45, 18, 2, '2023-10-03'),
103 (46, 12, 1, '2023-10-03'),
104 (47, 13, 1, '2023-10-04'),
105 (48, 4, 1, '2023-10-05'),
106 (49, 12, 2, '2023-10-05'),
107 (50, 7, 1, '2023-10-06'),
108 (51, 4, 2, '2023-10-08'),
109 (52, 8, 2, '2023-10-08'),
110 (53, 16, 1, '2023-10-09'),
111 (54, 19, 1, '2023-10-09'),
112 (55, 1, 1, '2023-10-10'),
113 (56, 18, 2, '2023-10-10'),
114 (57, 2, 1, '2023-10-10'),
115 (58, 15, 2, '2023-10-11'),
116 (59, 17, 2, '2023-10-13'),
117 (60, 13, 1, '2023-10-13'),
118 (61, 10, 2, '2023-10-13'),
119 (62, 9, 1, '2023-10-13'),
120 (63, 19, 2, '2023-10-13'),
121 (64, 20, 1, '2023-10-14')
```

Text to DDL

Query SQL

```
1 #10. Rank the products by their average daily quantity sold
2
3 SELECT
4 product_name,
5 DAY(tr.purchase_date) AS transaction_day,
6 ROUND(AVG(tr.quantity),0) AS avg_qty
7
8 FROM
9
10 sustainable_clothing sc
11
12 INNER JOIN
13 transactions tr ON tr.product_id = sc.product_id
14
15 GROUP BY product_name, DAY(tr.purchase_date)
16
17 ORDER BY transaction_day, avg_qty DESC;
18
19
20
21
22
```

Results

Copy as Markdown

Query #1 Execution time: 1ms

| product_name | transaction_day | avg_qty |
|-------------------------|-----------------|---------|
| Organic Cotton Sweater | 1 | 2 |
| Organic Cotton T-Shirt | 1 | 1 |
| Hemp Baseball Cap | 1 | 1 |
| Recycled Denim Jeans | 2 | 2 |
| Organic Cotton Dress | 2 | 1 |
| Recycled Nylon Backpack | 2 | 1 |
| Linen Jumpsuit | 3 | 2 |