





sustainable_clothing

| Product ID | Product Name | Category | Size | Price |
|------------|---------------------------|-------------|----------|---------|
| 1 | Organic Cotton T-Shirt | Tops | S | \$29.99 |
| 2 | Recycled Denim Jeans | Bottoms | М | \$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 | М | \$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 | М | \$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 | М | \$79.99 |
| 18 | Linen Jumpsuit | Dresses | L | \$69.99 |
| 19 | Organic Cotton Socks | Accessories | М | \$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 | purcahse_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 |

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

```
SELECT m.campaign_name, COUNT(DISTINCT t.transaction_id) AS transaction_count FROM marketing_campaigns AS m INNER JOIN transactions2 AS t ON m.product_id=t.product_id
GROUP BY m.campaign_name
ORDER BY COUNT(DISTINCT t.transaction_id) DESC;
```

| | campaign_name | transaction_count |
|-------------|-----------------------|-------------------|
| > | Summer Sale | 7 |
| | New Collection Launch | 6 |
| | Super Save | 3 |
| | -1 | |

2. Which product had the highest sales quantity?

```
WITH cte as (
Select t.product_id,product_name, Sum(quantity) As total_quantity
From transactions as t
Join sustainable_clothing as sc on t.product_id = sc.product_id
Group by 1 , 2
Order By total_quantity )

Select *
From cte
Where total_quantity in (select max(total_quantity) from cte);
```

```
product_id product_name total_quantity

▶ 12 Organic Cotton Sweater 9
```

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

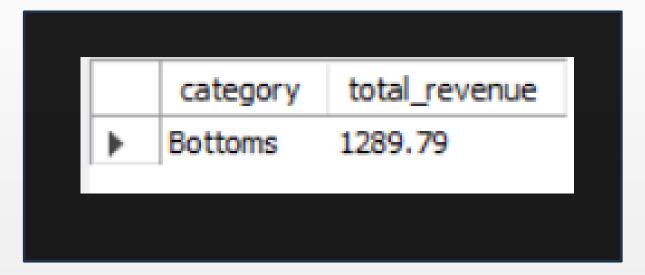
```
SELECT m.campaign_name, ROUND(SUM(c.price * t.quantity),2) AS total_revenue_generated FROM marketing_campaigns AS m INNER JOIN transactions AS t ON m.product_id=t.product_id INNER JOIN sustainable_clothing AS c ON c.product_id=t.product_id GROUP BY m.campaign_name ORDER BY SUM(c.price * t.quantity) DESC;;
```

| | campaign_name | total_revenue_generated |
|---|-----------------------|-------------------------|
| • | Summer Sale | 639.92 |
| | New Collection Launch | 439.92 |
| | Super Save | 209.97 |
| | | |

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

```
With cte as (
    Select category, round(sum(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. Which products had a higher quantity sold compared to the average quantity sold?

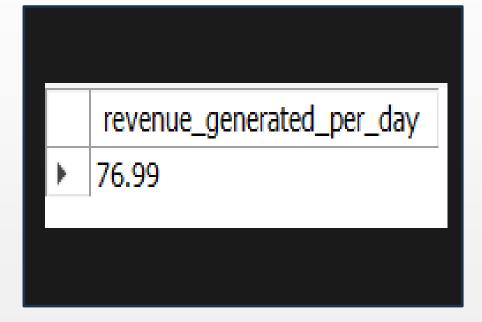
```
WITH Qtysold AS(SELECT c.product_name,SUM(t.quantity) AS qty_sold, AVG(t.quantity) avg_qty_sold FROM transactions AS t INNER JOIN sustainable_clothing AS c ON t.product_id=c.product_id GROUP BY c.product_name)

SELECT product_name,qty_sold FROM Qtysold WHERE qty_sold>avg_qty_sold ORDER BY qty_sold DESC;
```

| | product_name | qty_sold |
|---|---------------------------|-----------------|
| • | Organic Cotton Sweater | 9 |
| | Recycled Denim Jeans | 8 |
| | Bamboo Yoga Leggings | 8 |
| | Linen Jumpsuit | 7 |
| | Organic Cotton Socks | 7 |
| | Bamboo Lounge Pants | 5 |
| | Eco-Friendly Hoodie | 5 |
| | Organic Cotton Skirt Orga | nic Cotton Skir |
| | Hemp Baseball Cap | 5 |
| | Recycled Polyester Jacket | 4 |
| | Cork Sandals | 4 |
| | Linen Button-Down Shirt | 3 |

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

```
SELECT ROUND(AVG(c.price * t.quantity),2) AS revenue_generated_per_day
FROM marketing_campaigns AS m
INNER JOIN transactions AS t ON m.product_id = t.product_id
INNER JOIN sustainable_clothing AS c ON c.product_id = t.product_id
WHERE t.purchase_date BETWEEN m.start_date and m.end_date;
```



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

| | product_name | per_contribution |
|---|---------------------------|------------------|
| ١ | 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 |

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



```
Select Case When mc.campaign_id is not null then 'marketing campaigns' Else 'outside of marketing campaigns' End As Transaction_type,avg(t.quantity) As "average_quantity_sold" from transactions t

Left Join marketing_campaigns mc on t.product_id = mc.product_id

Group By Transaction_type;
```

| | Transaction_type | average_quantity_sold |
|---|--------------------------------|-----------------------|
| • | marketing campaigns | 1.1875 |
| | outside of marketing campaigns | 1.4375 |
| | outside of marketing campaigns | 1.45/5 |

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

```
Select Case When mc.campaign_id is not null then 'marketing campaigns'

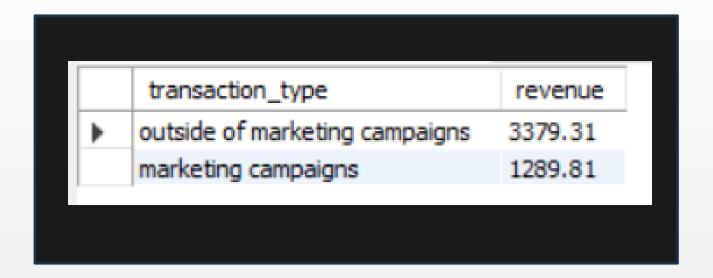
Else 'outside of marketing campaigns' End As transaction_type,round(sum(t.quantity * sc.price),2) As revenue

From transactions t

Left Join marketing_campaigns mc On t.product_id = mc.product_id

Join sustainable_clothing sc On t.product_id = sc.product_id

Group By transaction_type;
```



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

```
With cte as
  (Select product_name , avg(quantity) As avg_sold_qty
  From transactions t
  Join sustainable_clothing s On t.product_id = s. product_id
  Group By 1)

Select product_name, avg_sold_qty ,
  dense_rank() over (order by avg_sold_qty) as rnk_avg
  From cte;
```

| | product_name | avg_sold_qty | rnk_avg |
|---|---------------------------|--------------|---------|
| ▶ | Organic Cotton T-Shirt | 1.0000 | 1 |
| | Hemp Crop Top | 1.0000 | 1 |
| | Organic Cotton Dress | 1.0000 | 1 |
| | Cork Sandals | 1.0000 | 1 |
| | Recycled Nylon Backpack | 1.0000 | 1 |
| | Bamboo Bathrobe | 1.0000 | 1 |
| | Recycled Denim Jeans | 1.1429 | 2 |
| | Bamboo Lounge Pants | 1.2500 | 3 |
| | Hemp Baseball Cap | 1.2500 | 3 |
| | Recycled Polyester Jacket | 1.3333 | 4 |
| | Bamboo Yoga Leggings | 1.3333 | 4 |
| | Linen Button-Down Shirt | 1.5000 | 5 |
| | Hemp Overalls | 1.5000 | 5 |
| | Upcycled Denim Jacket | 1.5000 | 5 |
| | Eco-Friendly Hoodie | 1.6667 | 6 |
| | Organic Cotton Skirt | 1.6667 | 6 |
| | Linen Jumpsuit | 1.7500 | 7 |
| | | | |

THANK YOU





