Walmart Sales

Common question

1. How many unique cities does the data have?

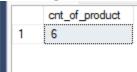
select COUNT(distinct city) as city_count

from [WalmartSalesData.csv]

city_count
1 3

Product Based question

How many unique product lines does the data have?
 select COUNT(distinct product_line) as cnt_of_product from [WalmartSalesData.csv]



2. What is the most common payment method

```
select top 1 Payment
from [WalmartSalesData.csv]
group by Payment
order by COUNT(payment) desc;
    Payment
1    Ewallet
```

3. What is the most selling product line?

```
select top 1 product_line
from [WalmartSalesData.csv]
group by Product_line
order by COUNT(product_line) desc
    product_line
1 Fashion accessories
```

4. What is the total revenue by month?

```
SELECT
   month_day AS Month,
   CAST(ROUND(SUM(total) / 1000.0, 2) AS VARCHAR(20)) + 'k' AS
totalrevenue
FROM
   [WalmartSalesData.csv]
```

```
GROUP BY
    month_day
ORDER BY
    SUM(total) DESC;
    Month
            totalrevenue
            116.29k
1
    January
    March
            109.46k
2
3
    February 97.22k
5. What month had the largest COGS;
SELECT
    month day AS Month,
    CAST(ROUND(SUM(cogs) / 1000.0, 2) AS VARCHAR(20)) + 'k' AS
totalcogs
FROM
     [WalmartSalesData.csv]
GROUP BY
    month day
ORDER BY
    SUM(cogs) DESC;
     Month
             totalcogs
             110.75k
     January
 2
     March
             104.24k
 3
     February
             92.59k
6. What product line has the largest revenue
 select product line,
      cast(round(SUM(total)/1000.0, 2) AS varchar(20)) + 'k' as
totalrev
from [WalmartSalesData.csv]
group by Product line
order by SUM(total) desc;
     product_line
                     totalrev
     Food and beverages
                      56.14k
     Sports and travel
2
                      55.12k
     Electronic accessories
                      54.34k
     Fashion accessories
                      54.31k
 5
     Home and lifestyle
                      53.86k
     Health and beauty
                      49.19k
7. What is the city with the largest revenue
select City,
      cast(round(SUM(total)/1000.0, 2) AS varchar(20)) + 'k' as
totalrev
```

```
from [WalmartSalesData.csv]
group by city
order by SUM(total) desc;

City totalrev
1 Naypyitaw 110.57k
2 Yangon 106.2k
3 Mandalay 106.2k
```

8. What product line had highest VAT

```
PRODUCT LINE,
 select
           cast(round(SUM(0.05* cogs)/1000.0,2) AS varchar(20)) + 'k' as
TOTAL VAT
 FROM [WalmartSalesData.csv]
 GROUP by Product line
 order by TOTAL_VAT desc
     PRODUCT LINE
                       TOTAL_VAT
 1
     Fashion accessories
                       2.59k
     Home and lifestyle
                       2.56k
 3
     Electronic accessories
                       2.59k
     Health and beauty
                       2.34k
 5
    Food and beverages
                       2.67k
      Sports and travel
                       2.62k
```

9. Which branch sold more products than avg product sold.

10. What is the most common product line by gender

```
gender,
          product_line
),
MaxCounts AS
     (SELECT
          gender,
          MAX(count) AS max_count
     FROM
          GenderProductCounts
     GROUP BY
          gender
SELECT
     gpc.gender,
     gpc.product line,
     gpc.count
FROM
     GenderProductCounts gpc
JOIN
    MaxCounts mc
ON
     gpc.gender = mc.gender AND gpc.count = mc.max count;
      gender
             product_line
                             count
      Male
             Health and beauty
                             88
      Female
            Fashion accessories
                             96
11. What is Avg rating of each product line
  select product line,
        AVG(rating) as avg_rating
from Walmart Sales
group by Product_line
     product_line
                      avg_rating
    Fashion accessories
                      7.02921346600136
2
     Home and lifestyle
                      6.8375
3
     Electronic accessories 6.92470588123097
     Health and beauty
                      7.00328945799878
5
     Food and beverages
                      7.11321838970842
     Sports and travel
                      6.91626506253897
```

Sales based questions

1. Number sales made in each time of the day per weekday

```
SELECT
   Datename(weekday,date) AS weekday,
   time_of_day,
```

```
COUNT(*) AS sales_count
FROM
    walmart_sales
GROUP BY
    Datename(weekday,date),
    time_of_day
ORDER BY
```

weekday;

| | weekday | time_of_day | sales_count |
|----|-----------|-------------|-------------|
| 1 | Friday | Afternoon | 58 |
| 2 | Friday | Evening | 52 |
| 3 | Friday | Moming | 29 |
| 4 | Monday | Afternoon | 48 |
| 5 | Monday | Evening | 56 |
| 6 | Monday | Moming | 21 |
| 7 | Saturday | Afternoon | 55 |
| 8 | Saturday | Evening | 81 |
| 9 | Saturday | Moming | 28 |
| 10 | Sunday | Afternoon | 53 |
| 11 | Sunday | Evening | 58 |
| 12 | Sunday | Moming | 22 |
| 13 | Thursday | Afternoon | 49 |
| 14 | Thursday | Evening | 56 |
| 15 | Thursday | Moming | 33 |
| 16 | Tuesday | Afternoon | 53 |
| 17 | Tuesday | Evening | 69 |
| 18 | Tuesday | Moming | 36 |
| 19 | Wednesday | Aftemoon | 61 |

2. Which of the customer types bring the most revenue

```
SELECT Customer_type,
```

 ${\sf cast(round(SUM(total)/1000.0,2)\ AS\ varchar(20))\ +\ 'k'\ as}$

totalrev

from walmart_sales

group by Customer_type

| | Customer_type | totalrev |
|---|---------------|----------|
| 1 | Member | 164.22k |
| 2 | Normal | 158.74k |

3. Which city has the largest tax percent/VAT (Value Added Tax)

```
SELECT top 1
    city,
    AVG(Tax_5) as avg_vat
FROM
    walmart_sales
group by City
```

```
ORDER BY
    avg_vat DESC;
            avg_vat
    Naypyitaw 16.05236
4. Which customer type pays the most in VAT?
 select top 1
       customer_type,
        cast(round(SUM((tax 5 /100)* total)/1000.0,2)AS varchar(20)) +
'k' as vat paid
         from Walmart Sales
group by customer_type
order by vat_paid desc;
    customer type
               vat paid
               40.28k
    Member
```

Customer based question

1. How many unique customer type does the data have?



2. How many unique payment methods does the data have?

```
select distinct Payment
from Walmart Sales
```



3. What is the most common customer type?

4. Which Customer type buy the most?

```
select top 1 customer_type
from Walmart_Sales
group by Customer_type
order by SUM(total) desc;
```

```
customer_type
1 Member
```

5. What is the gender of the most common customer?

```
SELECT top 1
gender
FROM
walmart_sales
GROUP BY
gender
ORDER BY
COUNT(*) DESC
gender
1 Female
```

6. What is gender distribution per branch?

```
SELECT
branch,
gender,
COUNT(*) AS customer_count
FROM
walmart_sales
GROUP BY
branch,
gender
ORDER BY
branch,
gender;
```

| | branch | gender | customer_count |
|---|--------|--------|----------------|
| 1 | Α | Female | 161 |
| 2 | Α | Male | 179 |
| 3 | В | Female | 162 |
| 4 | В | Male | 170 |
| 5 | С | Female | 178 |
| 6 | С | Male | 150 |

7. Which time of day do customers give most ratings?

| | time_of_day | ratings |
|---|-------------|---------|
| 1 | Evening | 432 |
| 2 | Aftemoon | 377 |
| 3 | Moming | 191 |

8. Which time of day do customers give most ratings per branch?

Branch, COUNT(rating)

branch time_of_day ratings

A Moming 73

Atternoon 126

| Α | Afternoon | 126 |
|---|-----------|-----|
| Α | Evening | 141 |
| В | Moming | 59 |
| В | Afternoon | 125 |
| В | Evening | 148 |
| С | Moming | 59 |
| С | Afternoon | 126 |
| С | Evening | 143 |
| | | |

9. Which day of the week has the best avg ratings?

```
select day_name,
     ROUND( AVG(rating),2) as avg_rating
from Walmart_Sales
group by
     day_name
order by
```

avg_rating desc

| day_name | avg_rating |
|-----------|------------|
| Monday | 7.15 |
| Friday | 7.08 |
| Sunday | 7.01 |
| Tuesday | 7 |
| Saturday | 6.9 |
| Thursday | 6.89 |
| Wednesday | 6.81 |
| | |

10. which day of the week has the best average ratings per branch?

```
with cte as
(select Branch, day_name,
     ROUND( AVG(rating),2) as avg_rating,
```

| Branch | day_name | avg_rating |
|--------|----------|------------|
| Α | Friday | 7.31 |
| В | Monday | 7.34 |
| С | Friday | 7.28 |