WALMART SALE

SQL PROJECT

CREATED BY

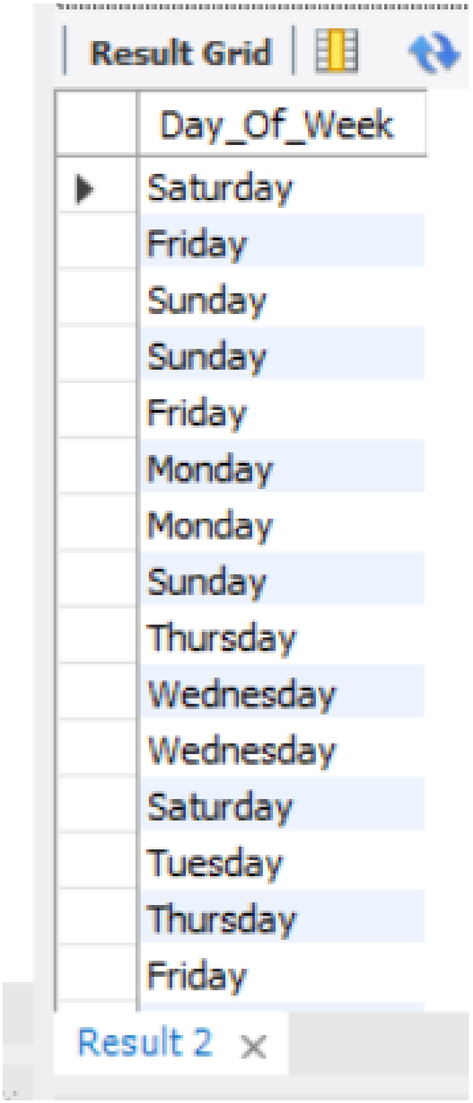
ANJALI RAWAT

1. ADD DAY Of Week COLUMN ?

```
SELECT dayname(Datetime) AS Day_Of_Week
 FROM sale.walmart_salee;
```

```
ALTER TABLE sale.walmart_salee
ADD COLUMN Day_Of_Week varchar(200) ;
```

```
UPDATE sale.walmart_salee
SET Day_Of_Week = dayname(Datetime) ;
```



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2. ADD MONTH NAME COLUMN ?

```
SELECT monthname(Datetime) AS Month_Name
from sale.walmart_salee ;

ALTER TABLE sale.walmart_salee
ADD COLUMN  Month_Name varchar(200) ;

UPDATE sale.walmart_salee
SET Month_Name = monthname(Datetime) ;
```

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BUSINESS QUESTION / ANSWER

GENERIC

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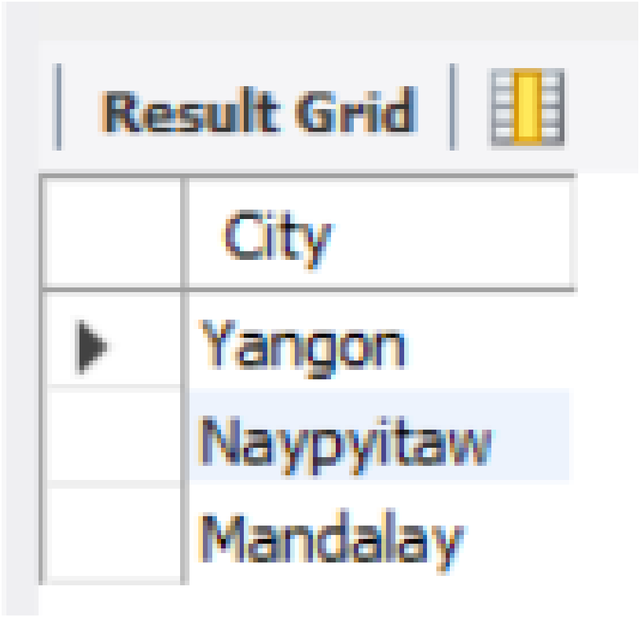
1. How many unique cities does the data have?

```
SELECT distinct(City) FROM sale.walmart_salee ;
```



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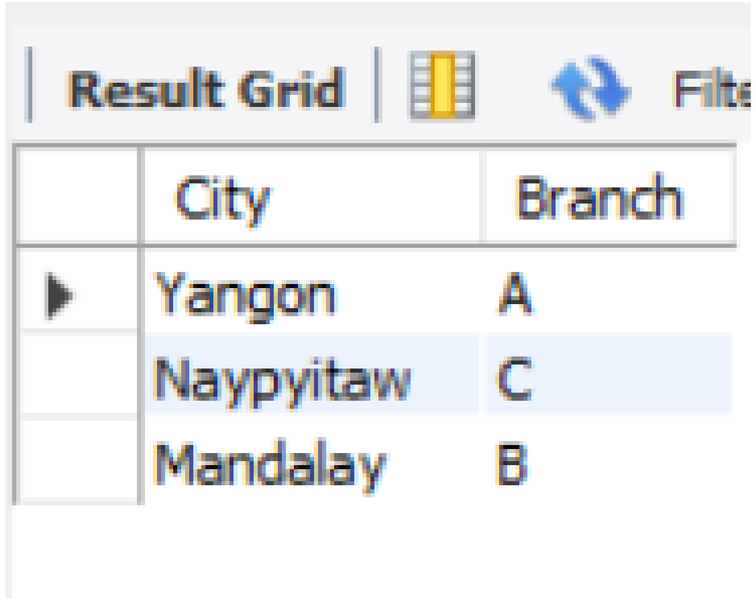
2. In which city is each branch?

```
SELECT DISTINCT(City) , Branch FROM sale.walmart_salee  ;
```


Result Grid

City	Branch
Yangon	A
Naypyitaw	C
Mandalay	B

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BUSINESS QUESTION / ANSWER

PRODUCT

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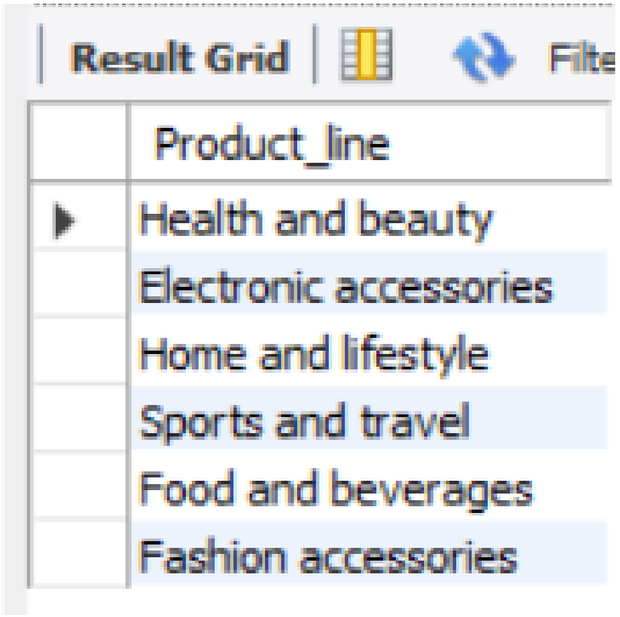
1.How many unique product lines does the data have?

```
SELECT distinct(Product_line)FROM sale.walmart_salee ;
```



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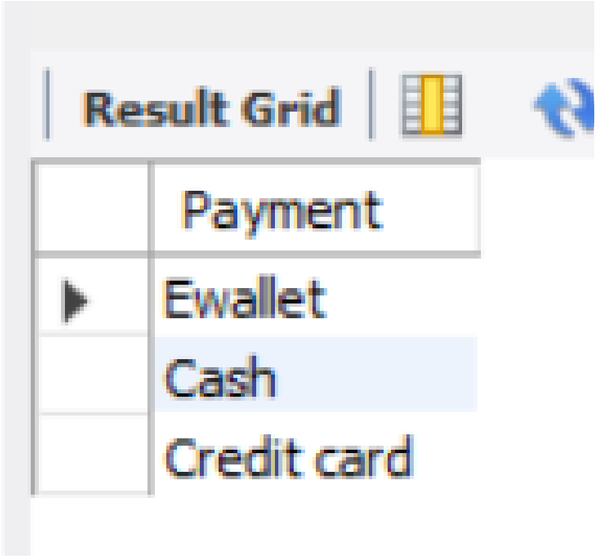
2.What is the most common payment method?

```
SELECT distinct(Payment) FROM sale.walmart_salee;
```



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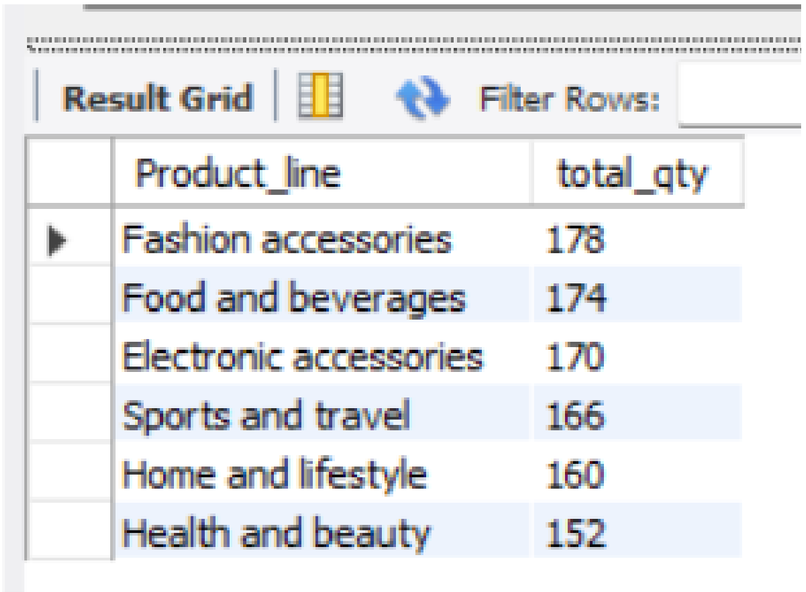
3.What is the most selling product line?

```
SELECT Product_line , COUNT(Quantity)  AS total_qty
FROM sale.walmart_salee
GROUP BY Product_line
ORDER BY total_qty DESC;
```



Result Grid | Filter Rows:

Product_line	total_qty
Fashion accessories	178
Food and beverages	174
Electronic accessories	170
Sports and travel	166
Home and lifestyle	160
Health and beauty	152

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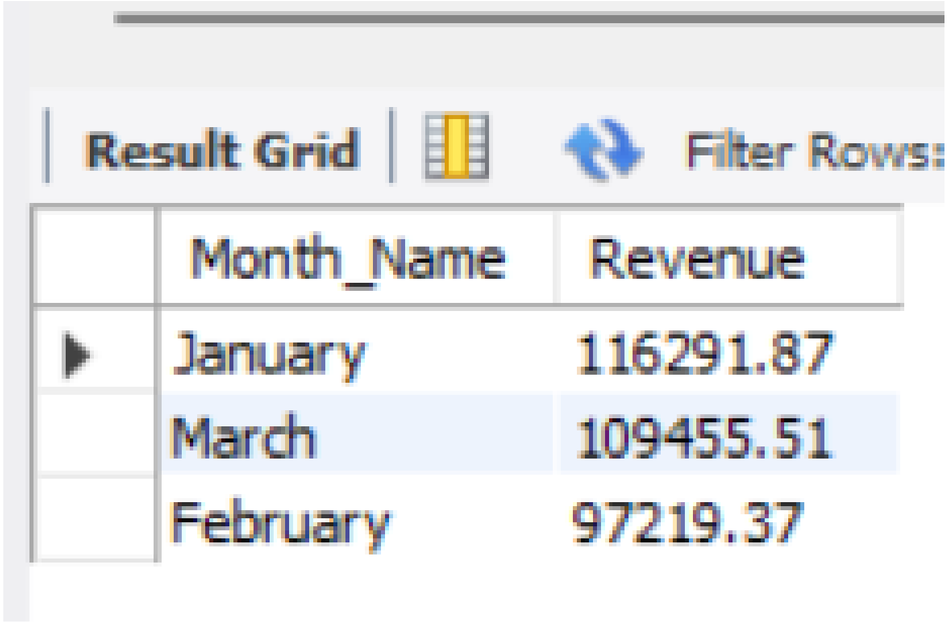
4.What is the total revenue by month?

```
SELECT Month_Name , Round(SUM(Total),2) AS Revenue
FROM sale.walmart_salee
GROUP BY  Month_Name
ORDER BY Revenue DESC;
```



Month_Name	Revenue
January	116291.87
March	109455.51
February	97219.37

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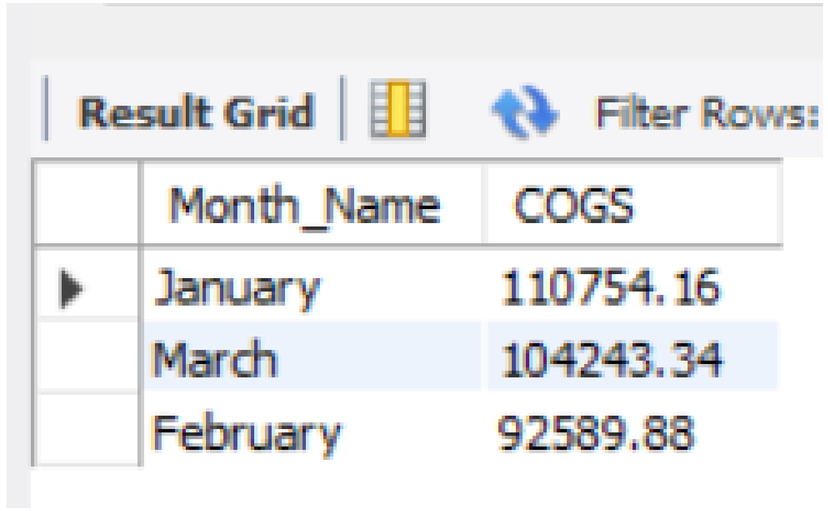
5. What month had the largest COGS?

```
SELECT Month_Name , ROUND(SUM(Cogs),2)  AS COGS
FROM sale.walmart_salee
GROUP BY Month_Name
ORDER BY COGS DESC ;
```



Month_Name	COGS
January	110754.16
March	104243.34
February	92589.88

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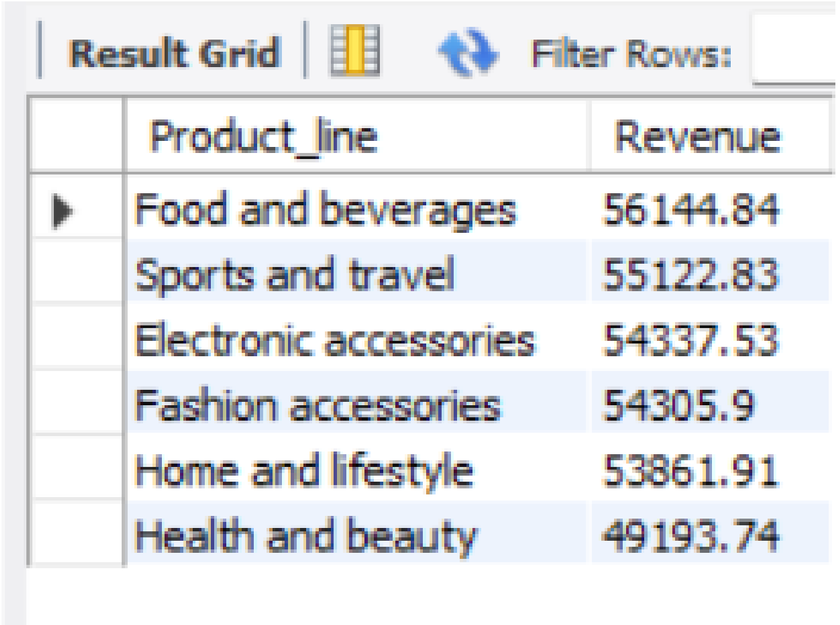
6.What product line had the largest revenue?

```
SELECT  Product_line ,  ROUND(sum(Total),2)  AS  Revenue
FROM  sale.walmart_salee
GROUP  BY Product_line
ORDER  BY Revenue DESC ;
```



Product_line	Revenue
Food and beverages	56144.84
Sports and travel	55122.83
Electronic accessories	54337.53
Fashion accessories	54305.9
Home and lifestyle	53861.91
Health and beauty	49193.74

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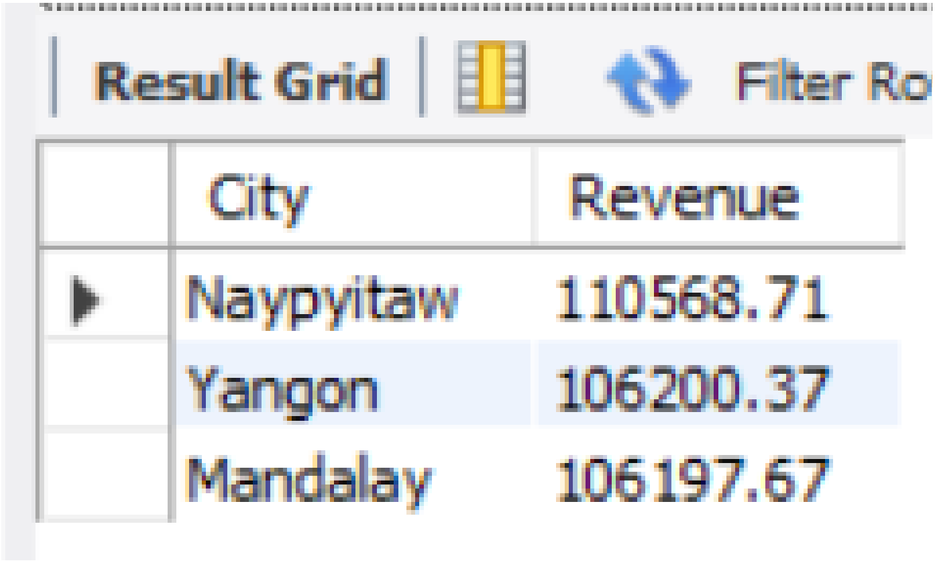
7.What is the city with the largest revenue?

```
SELECT City , Round(Sum(Total),2) AS Revenue
FROM sale.walmart_salee
GROUP BY  City
ORDER BY  Revenue DESC;
```


Result Grid | Filter Ro

City	Revenue
Naypyitaw	110568.71
Yangon	106200.37
Mandalay	106197.67

8.What product line had the largest VAT?

```
SELECT Product_line , ROUND(AVG(Tax),2) AS  VAT
FROM sale.walmart_salee
GROUP BY  Product_line
ORDER BY VAT DESC ;
```

Result Grid | Filter Rows:

Product_line	VAT
Home and lifestyle	16.03
Sports and travel	15.81
Health and beauty	15.41
Food and beverages	15.37
Electronic accessories	15.22
Fashion accessories	14.53

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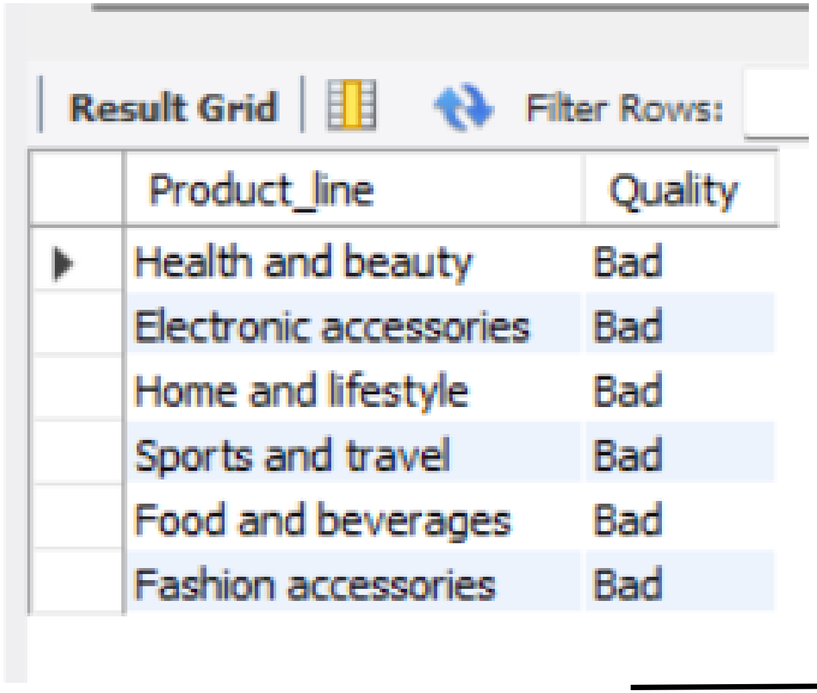
9.Fetch each product line and add a column to those product line showing "Good", "Bad". Good if its greater than average sales ?

```
SELECT Product_line ,
    (CASE
    WHEN Product_line > AVG(Total) THEN "Good"
                ELSE "Bad"
                END) AS Quality
FROM sale.walmart_salee
GROUP BY Product_line ;
```



Product_line	Quality
Health and beauty	Bad
Electronic accessories	Bad
Home and lifestyle	Bad
Sports and travel	Bad
Food and beverages	Bad
Fashion accessories	Bad

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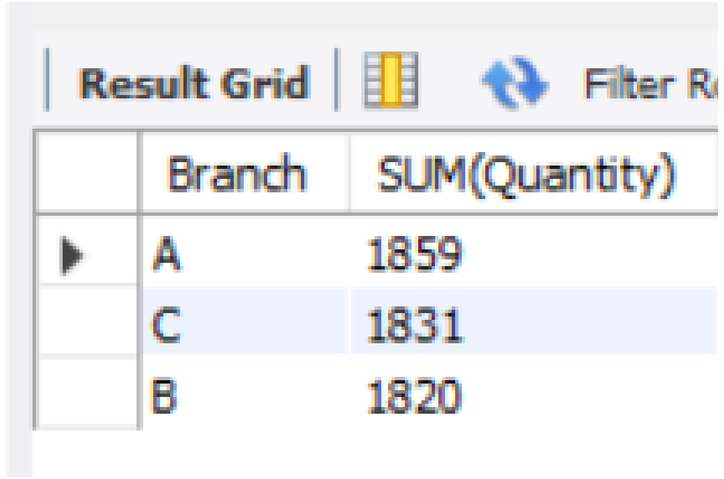
10.Which branch sold more products than average product sold?

```
SELECT  Branch ,  SUM(Quantity)
FROM  sale.walmart_salee
GROUP  BY   Branch
HAVING  SUM(Quantity) >  (SELECT AVG(Quantity)
 FROM sale.walmart_salee ) ;
```



Branch	SUM(Quantity)
A	1859
C	1831
B	1820

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11.What is the most common product line by gender?

```
SELECT Product_line , gender , COUNT(gender) AS gender_count
FROM sale.walmart_salee
GROUP BY Product_line , gender
ORDER BY gender_count DESC ;
```

Result Grid | Filter Rows:

Product_line	gender	gender_count
Fashion accessories	Female	96
Food and beverages	Female	90
Health and beauty	Male	88
Sports and travel	Female	88
Electronic accessories	Male	86
Electronic accessories	Female	84
Food and beverages	Male	84
Fashion accessories	Male	82
Home and lifestyle	Male	81
Home and lifestyle	Female	79
Sports and travel	Male	78
Health and beauty	Female	64

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12.What is the average rating of each product line?

```
SELECT Product_line , ROUND(AVG(Rating),2) AS
avg_rating
FROM sale.walmart_salee
GROUP BY Product_line
ORDER BY avg_rating DESC ;
```

Result Grid | Filter Rows:

Product_line	avg_rating
Food and beverages	7.11
Fashion accessories	7.03
Health and beauty	7
Electronic accessories	6.92
Sports and travel	6.92
Home and lifestyle	6.84

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BUSINESS QUESTION / ANSWER

SALES

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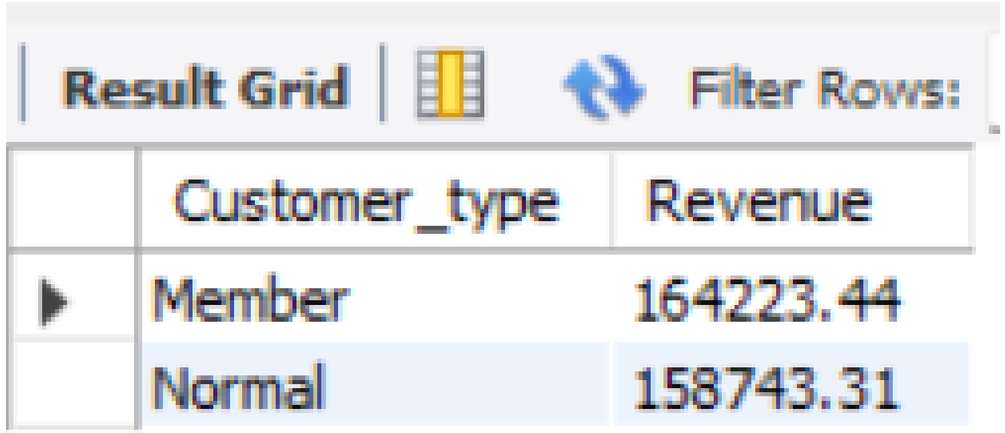
1. Which of the customer types brings the most revenue?

```
SELECT Customer_type, round(sum(Total),2) AS Revenue
FROM sale.walmart_salee
GROUP BY Customer_type
ORDER BY Revenue DESC ;
```



Customer_type	Revenue
Member	164223.44
Normal	158743.31

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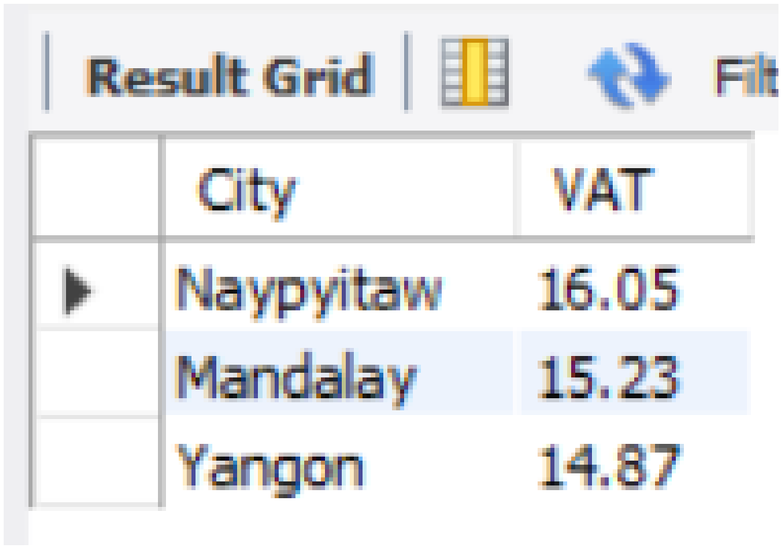
2. Which city has the largest tax percent/ VAT (Value Added Tax)

```
SELECT City , ROUND(AVG(TAX),2) AS VAT
FROM sale.walmart_salee
GROUP BY CITY
ORDER BY VAT DESC;
```



City	VAT
Naypyitaw	16.05
Mandalay	15.23
Yangon	14.87

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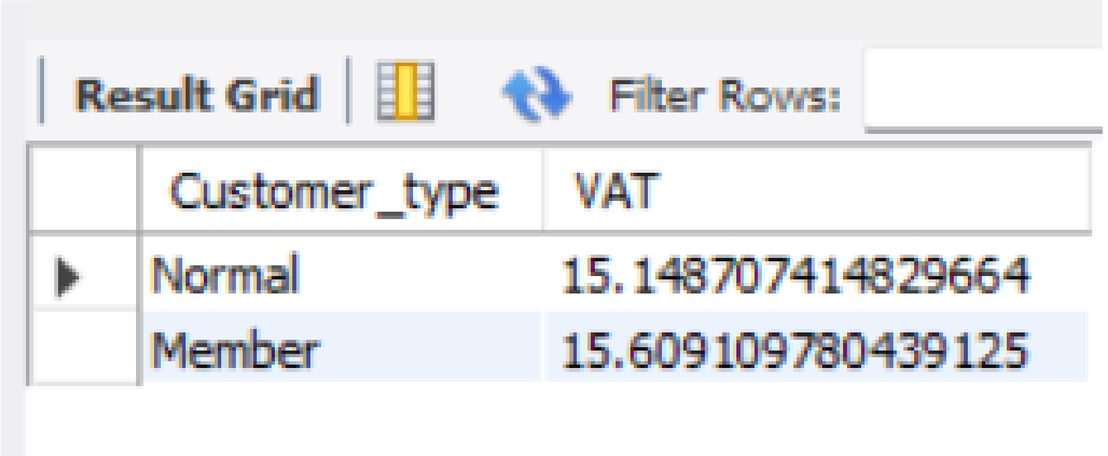
3. Which customer type pays the most in VAT?

```
SELECT Customer_type , AVG(Tax) AS VAT
FROM sale.walmart_salee
GROUP BY Customer_type
ORDER BY VAT ;
```



Customer_type	VAT
Normal	15.14870741482966 4
Member	15.60910978043912 5

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BUSINESS QUESTION / ANSWER

CUSTOMER

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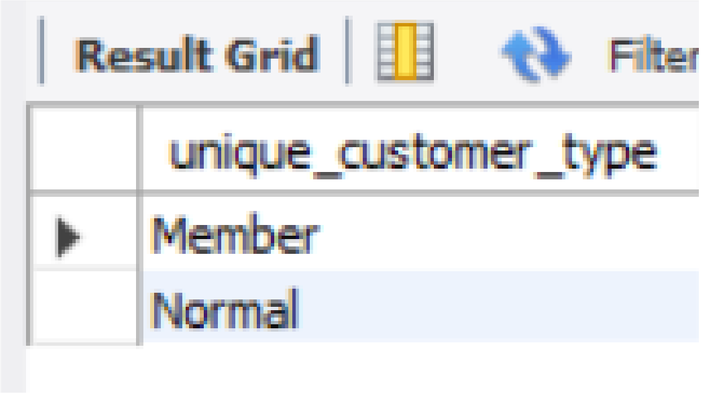
1. How many unique customer types does the data have?

```
SELECT DISTINCT (Customer_type) AS unique_customer_type
FROM sale.walmart_salee ;
```



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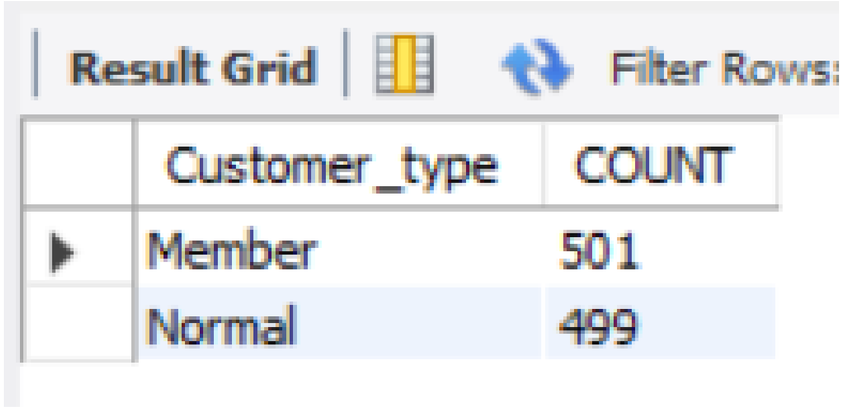
2. What is the most common customer type?

```
SELECT Customer_type , COUNT(*)  AS COUNT
FROM sale.walmart_salee
GROUP BY Customer_type
ORDER BY COUNT DESC ;
```


Result Grid | Filter Rows:

Customer_type	COUNT
Member	501
Normal	499

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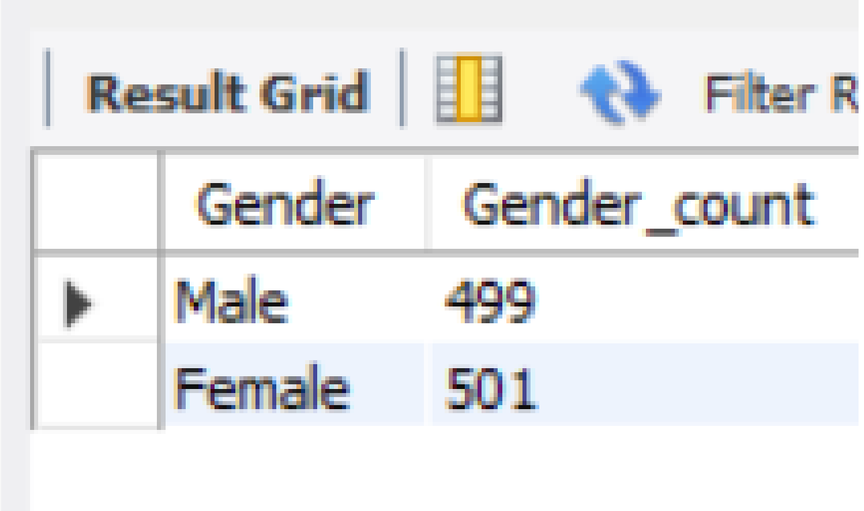
3.What is the gender of most of the customers?

```
SELECT Gender, COUNT(*) AS Gender_count
 FROM sale.walmart_salee
 GROUP BY Gender
 ORDER BY Gender_count ;
```



Gender	Gender_count
Male	499
Female	501

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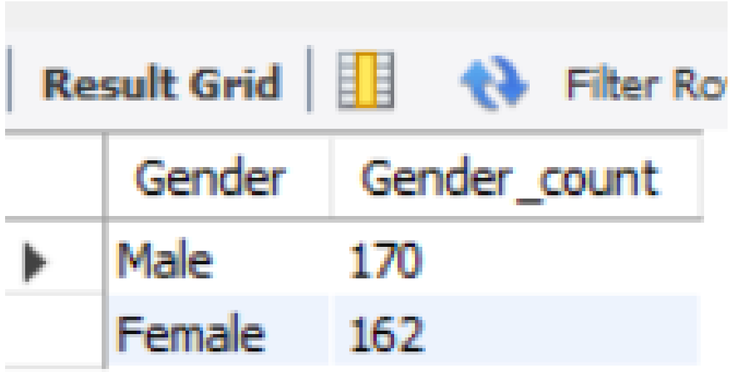
4. What is the gender distribution per branch?

```
SELECT  Gender , COUNT(*) AS Gender_count
FROM sale.walmart_salee
WHERE Branch = "B"
GROUP BY Branch , Gender
ORDER BY Gender_count desc ;
```



Gender	Gender_count
Male	170
Female	162

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5. Which day fo the week has the best avg ratings?

```
SELECT Day_Of_Week  , ROUND(AVG(Rating),2) AS AVG_Rating
 FROM sale.walmart_salee
 GROUP BY Day_Of_Week
 ORDER BY AVG_Rating DESC ;
```

Result Grid | Filter Rows:

Day_Of_Week	AVG_Rating
Monday	7.15
Friday	7.08
Sunday	7.01
Tuesday	7
Saturday	6.9
Thursday	6.89
Wednesday	6.81

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6. Which day of the week has the best average ratings per branch?

```
SELECT Day_Of_Week  , ROUND(AVG(Rating),2) AS AVG_Rating
 FROM sale.walmart_salee
 WHERE Branch = "B"
 GROUP BY Day_Of_Week
 ORDER BY AVG_Rating DESC ;
```

Result Grid | Filter Rows:

Day_Of_Week	AVG_Rating
Monday	7.34
Tuesday	7
Sunday	6.89
Thursday	6.75
Saturday	6.74
Friday	6.69
Wednesday	6.45

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