



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) ;
```

Day_Of_Week
Saturday
Friday
Sunday
Sunday
Friday
Monday
Monday
Sunday
Thursday
Wednesday
Wednesday
Saturday
Tuesday
Thursday
Friday

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) ;
```

Result Grid	
	Month_Name
▶	January
	March
	March
	January
	February
	March
	February
	February
	January
	February
	February
	March
	February
	February
	March
Result 4	



BUSINESS QUESTION / ANSWER

GENERIC

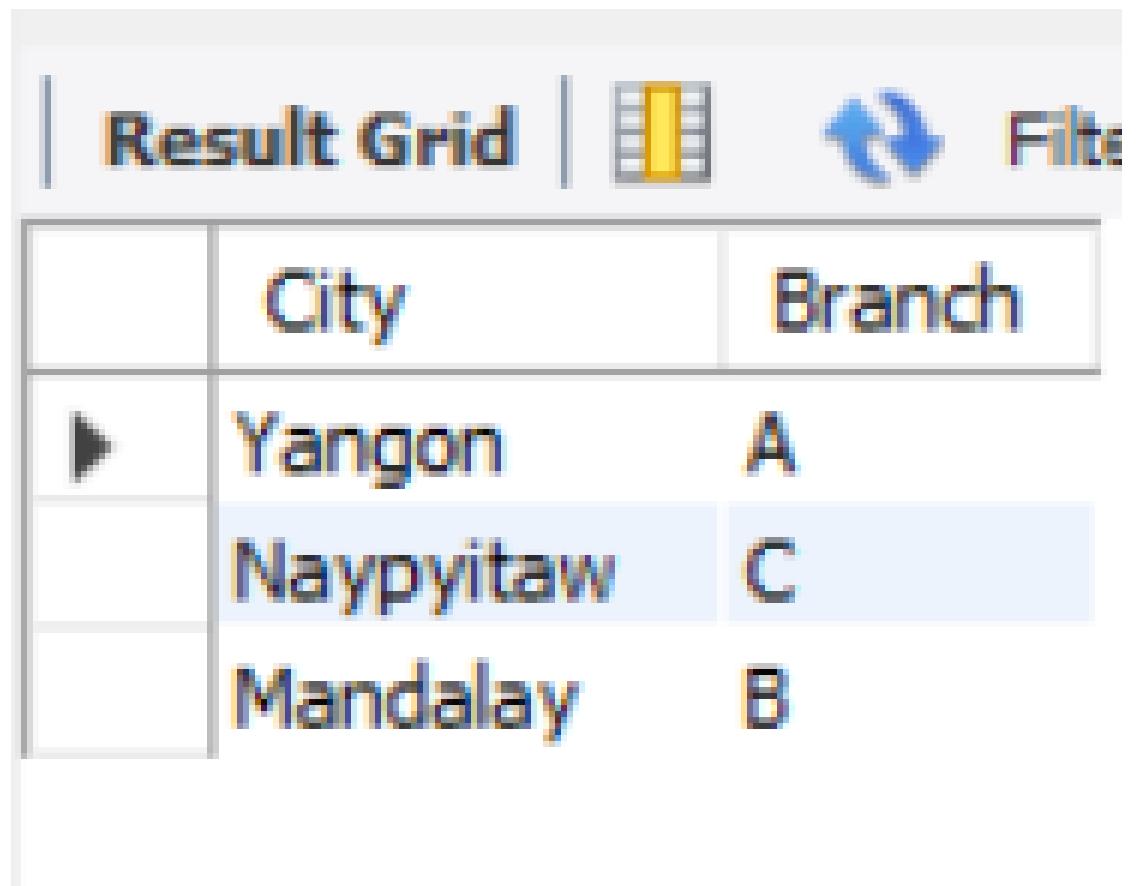
1. How many unique cities does the data have?

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

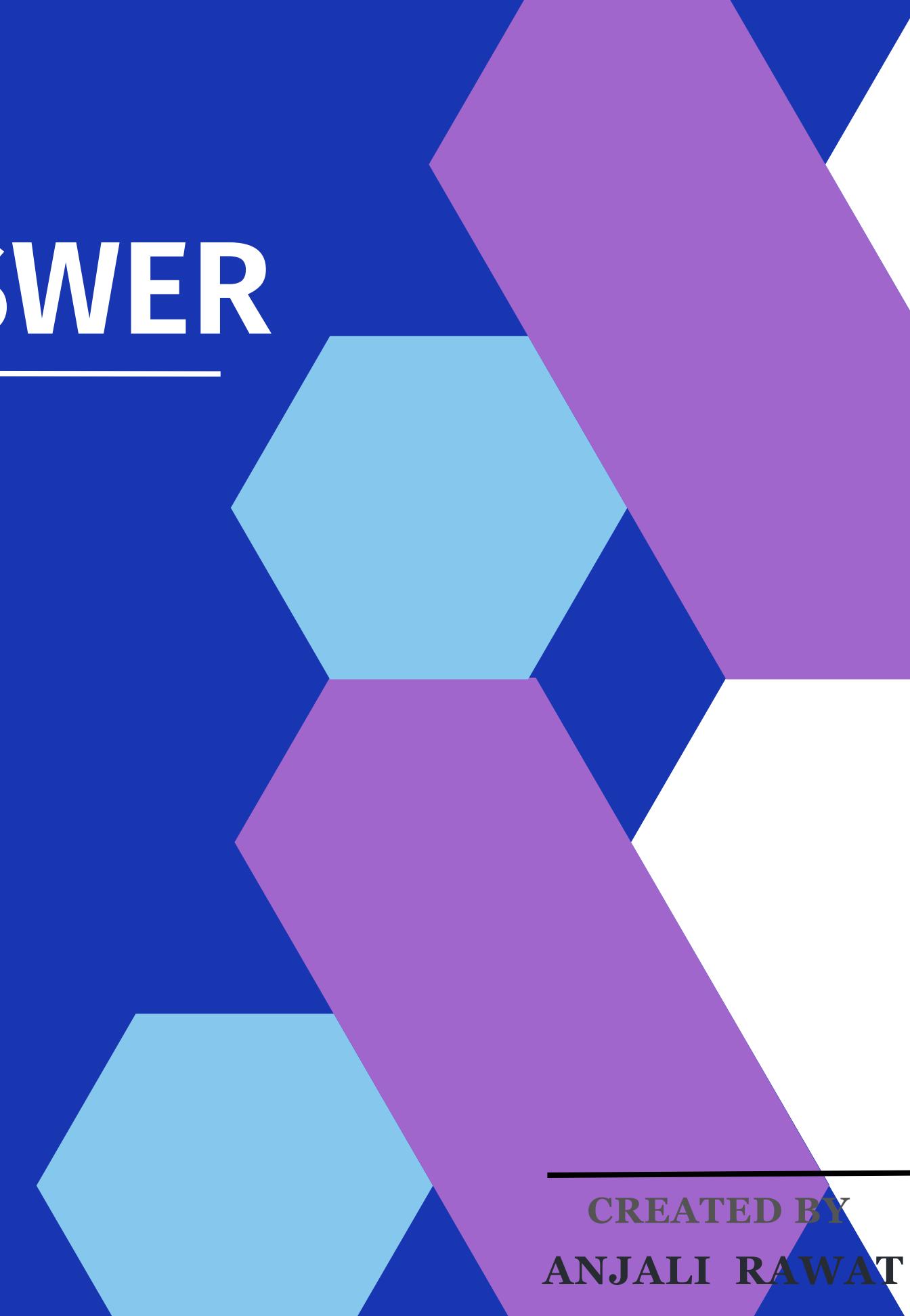
Result Grid	
	City
▶	Yangon
	Naypyitaw
	Mandalay

2. In which city is each branch?

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



	City	Branch
▶	Yangon	A
	Naypyitaw	C
	Mandalay	B



BUSINESS QUESTION / ANSWER

PRODUCT

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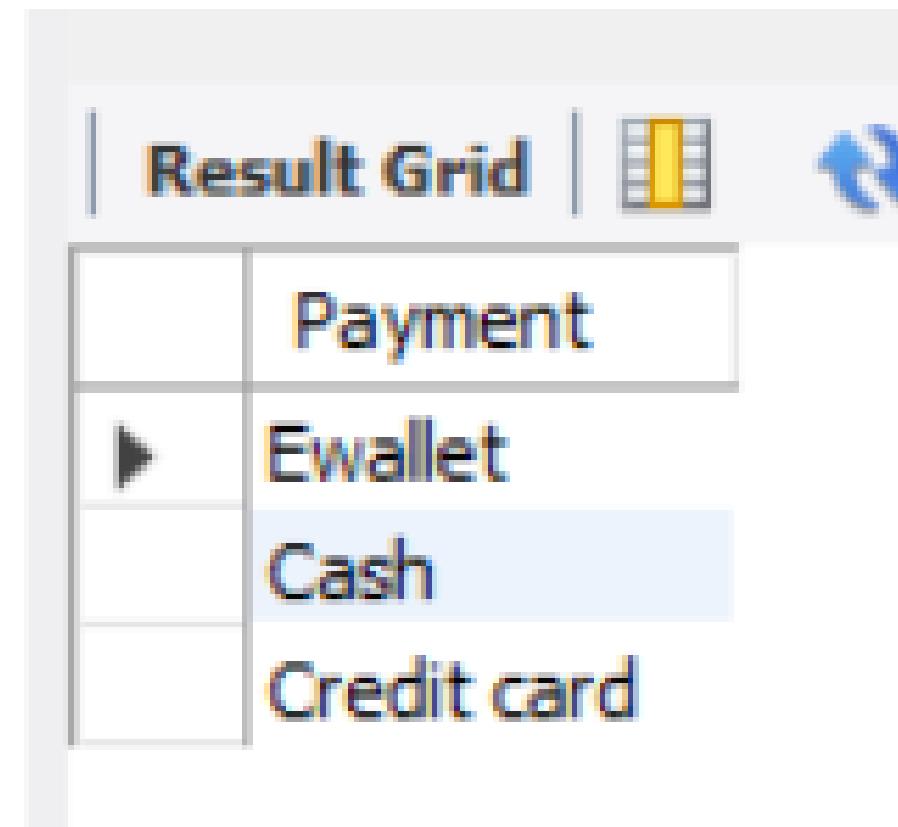
1. How many unique product lines does the data have?

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

Result Grid	
	Product_line
▶	Health and beauty
	Electronic accessories
	Home and lifestyle
	Sports and travel
	Food and beverages
	Fashion accessories

2.What is the most common payment method?

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



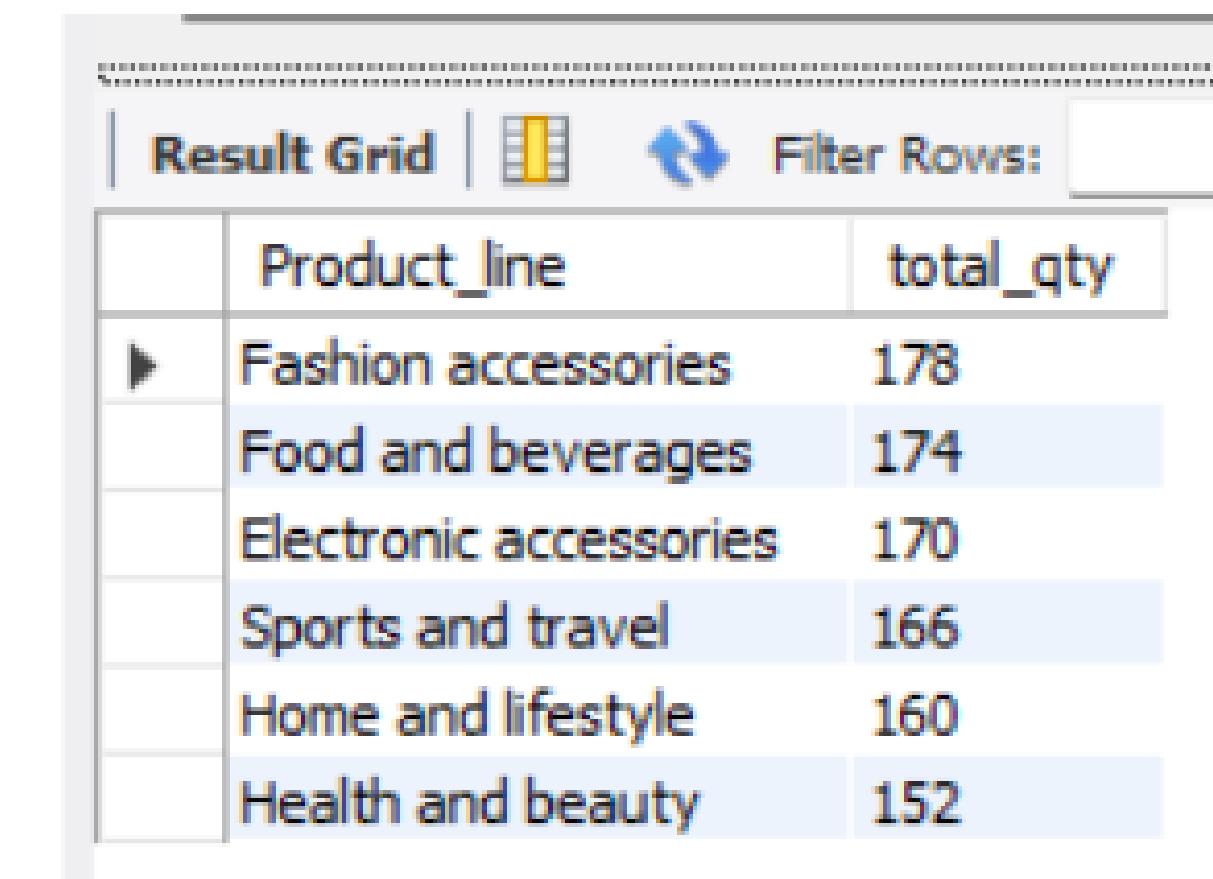
Payment
Ewallet
Cash
Credit card

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3.What is the most selling product line?

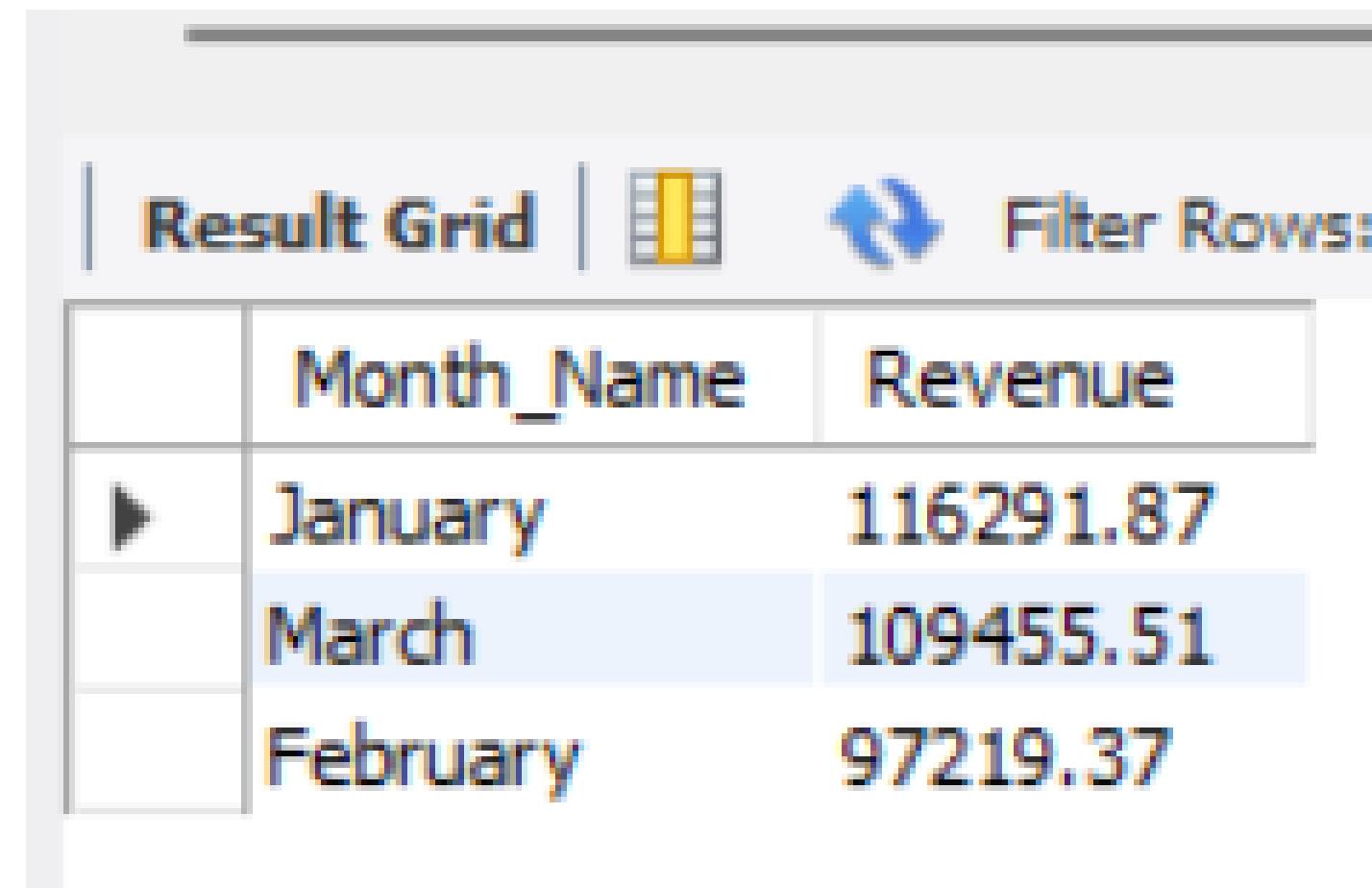
```
SELECT Product_line , COUNT(Quantity) AS total_qty  
FROM sale.walmart_salee  
GROUP BY Product_line  
ORDER BY total_qty DESC;
```



	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

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;
```

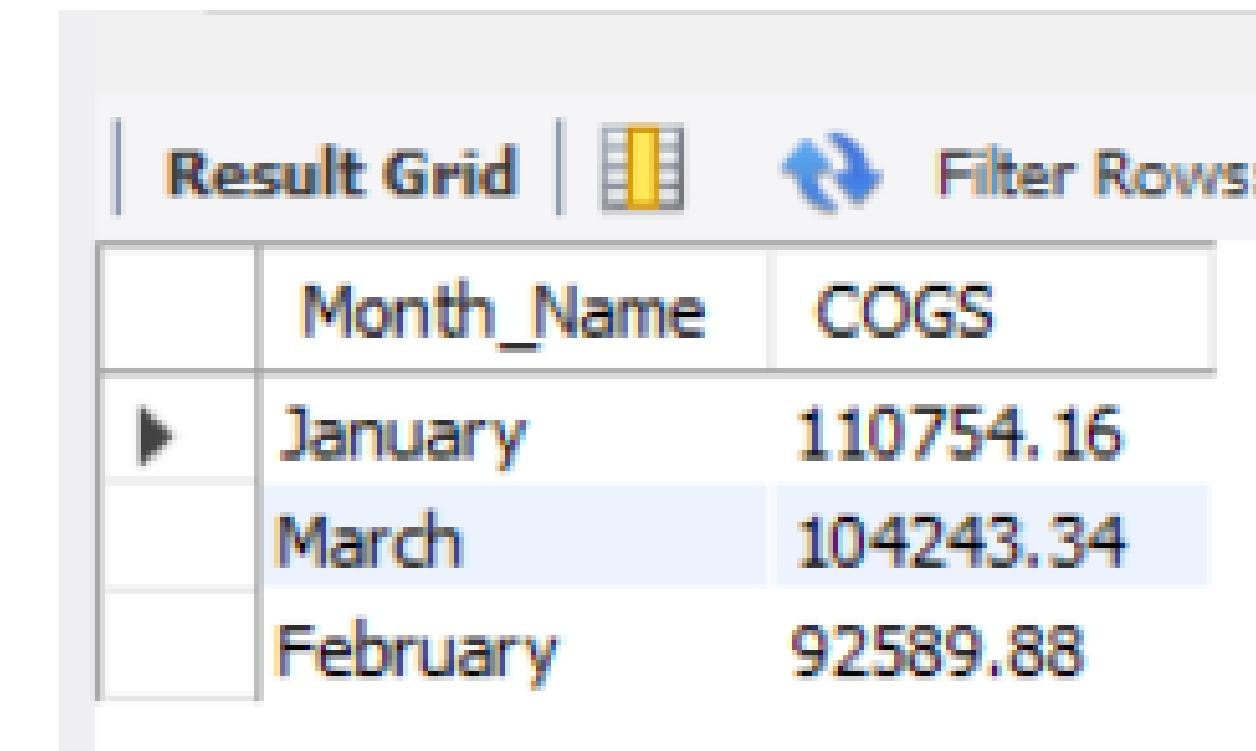


The image shows a screenshot of a database query results grid. The grid has a header row with 'Result Grid' and 'Filter Rows' buttons. The data is presented in a table with columns 'Month_Name' and 'Revenue'. The rows show the following data:

	Month_Name	Revenue
▶	January	116291.87
	March	109455.51
	February	97219.37

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 ;
```

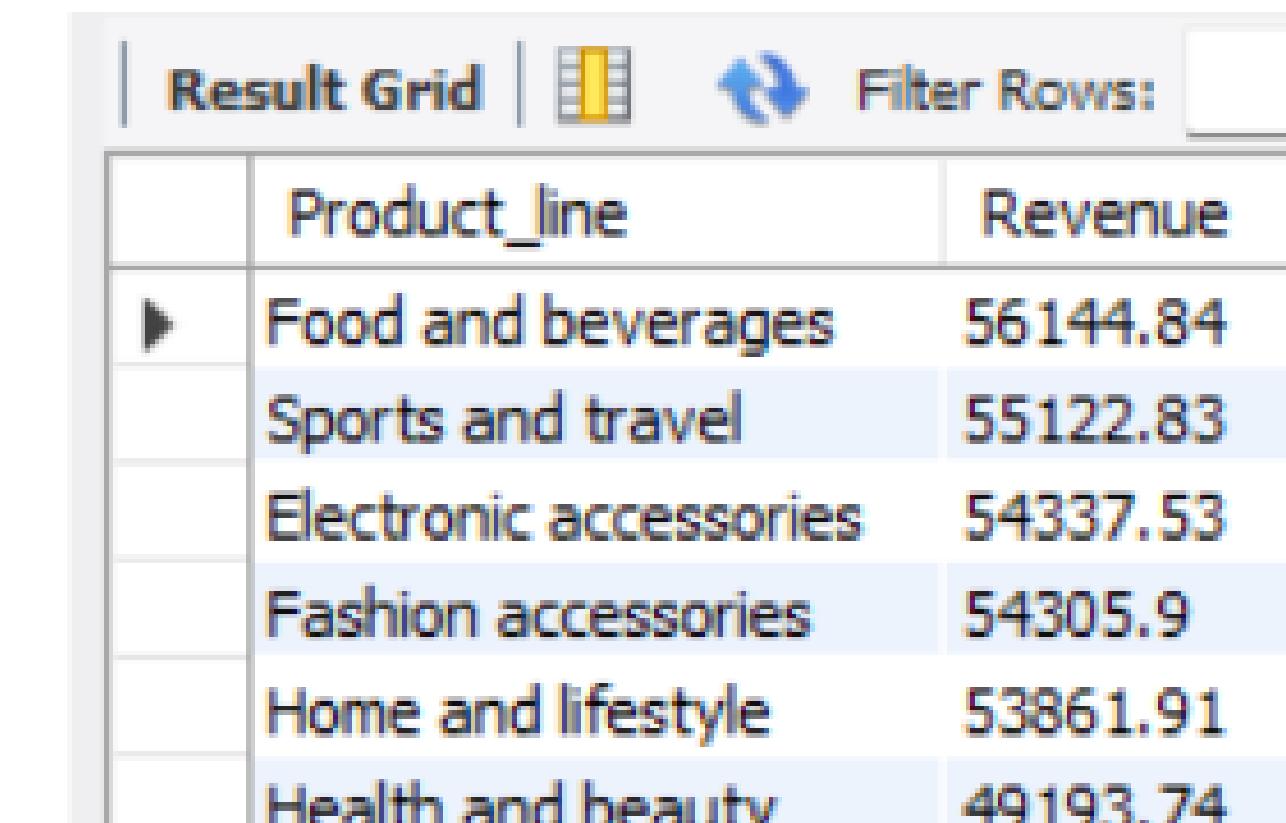


The image shows a screenshot of a database query results grid. The grid has a header row with 'Month_Name' and 'COGS' columns. Below the header, there are three data rows: 'January' with COGS 110754.16, 'March' with COGS 104243.34, and 'February' with COGS 92589.88. The 'January' row is highlighted with a blue background. The grid has a light gray background and a white header bar. The 'Result Grid' and 'Filter Rows' buttons are visible at the top of the grid area.

	Month_Name	COGS
▶	January	110754.16
	March	104243.34
	February	92589.88

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 ;
```

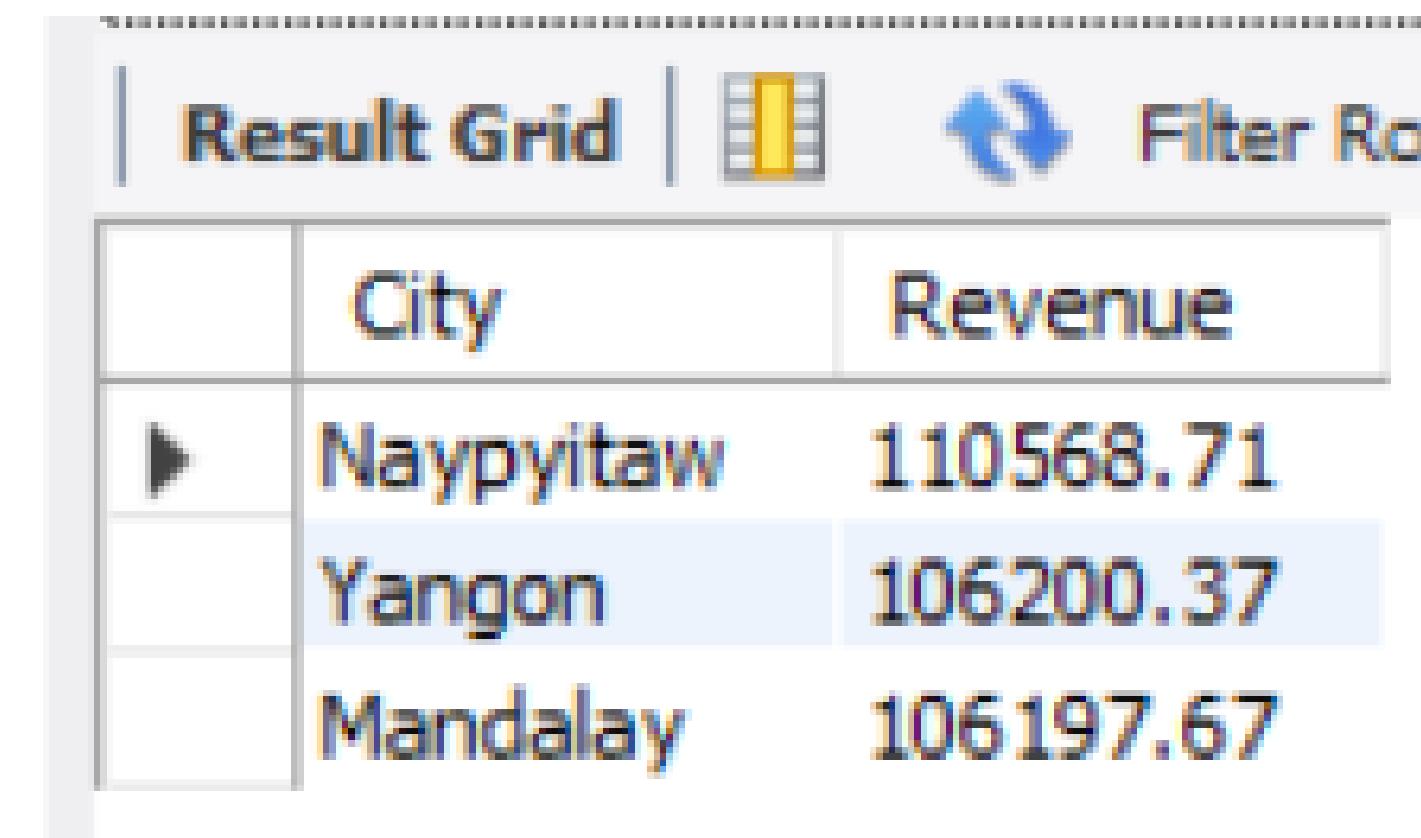


The image shows a screenshot of a database query results grid. The grid has a header row with 'Product_line' and 'Revenue' columns. Below the header, there are six data rows. The 'Product_line' column contains 'Food and beverages', 'Sports and travel', 'Electronic accessories', 'Fashion accessories', 'Home and lifestyle', and 'Health and beauty'. The 'Revenue' column contains the values '56144.84', '55122.83', '54337.53', '54305.9', '53861.91', and '49193.74' respectively. The grid has a 'Result Grid' tab, a 'Filter Rows' button, and a small icon in the top right corner.

	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

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;
```

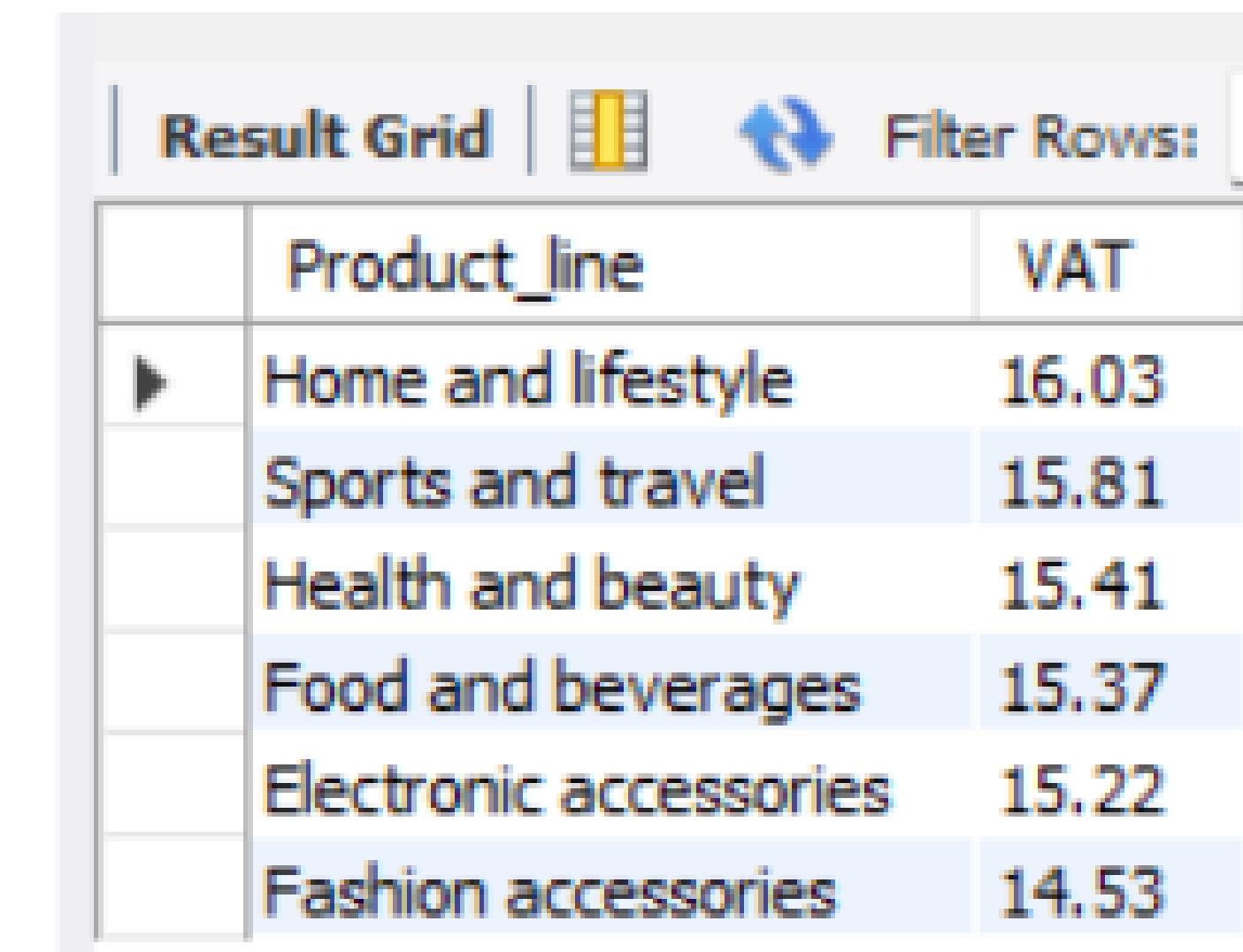


The image shows a screenshot of a database query results grid. The grid has a header row with 'Result Grid' and 'Filter Row' buttons. The data is presented in a table with columns 'City' and 'Revenue'. The table shows three rows of data: Naypyitaw with a revenue of 110568.71, Yangon with a revenue of 106200.37, and Mandalay with a revenue of 106197.67. The 'Revenue' column is sorted in descending order.

	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 ;
```

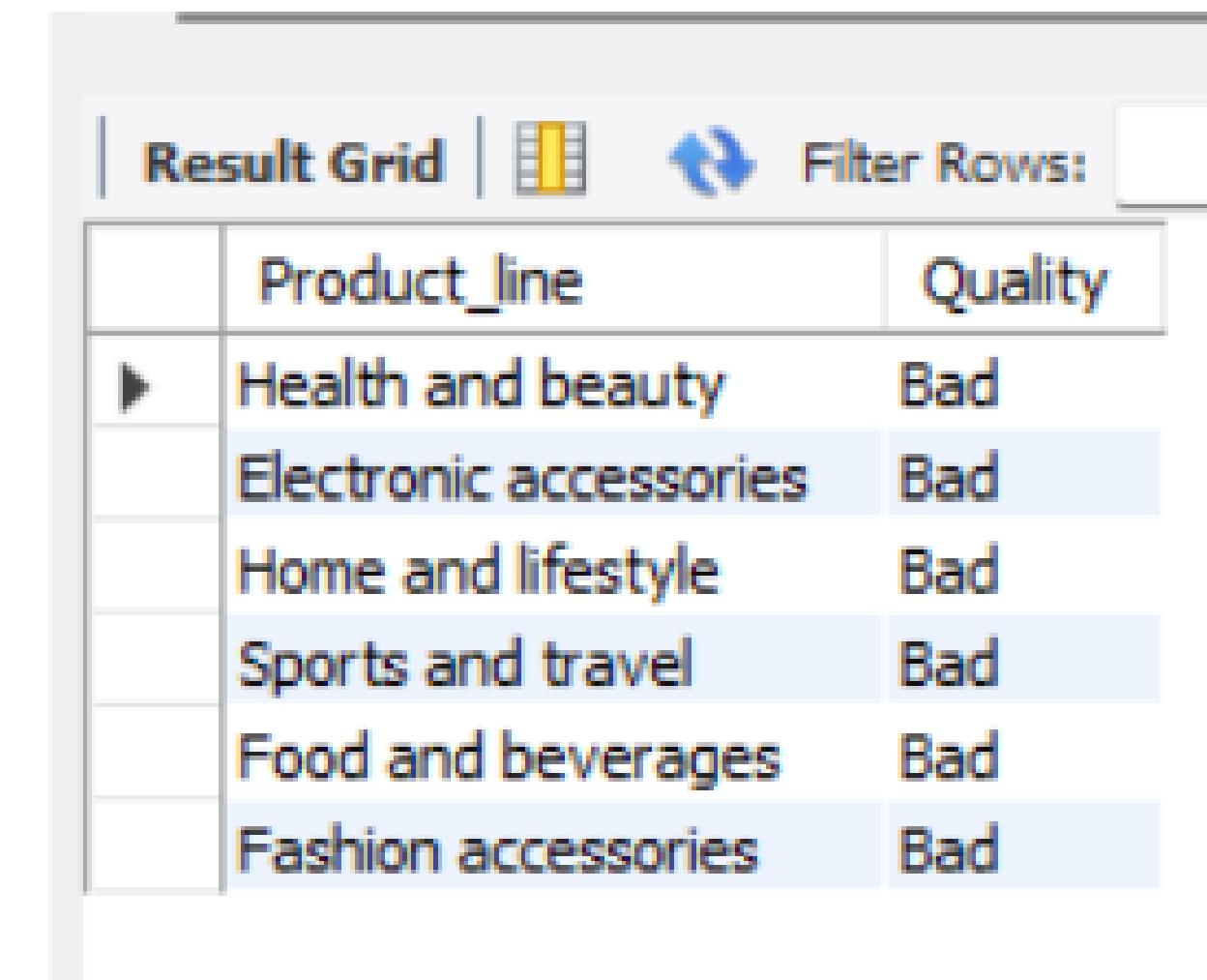


The screenshot shows a MySQL Workbench result grid. The grid has two columns: 'Product_line' and 'VAT'. The data is as follows:

	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

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 ;
```

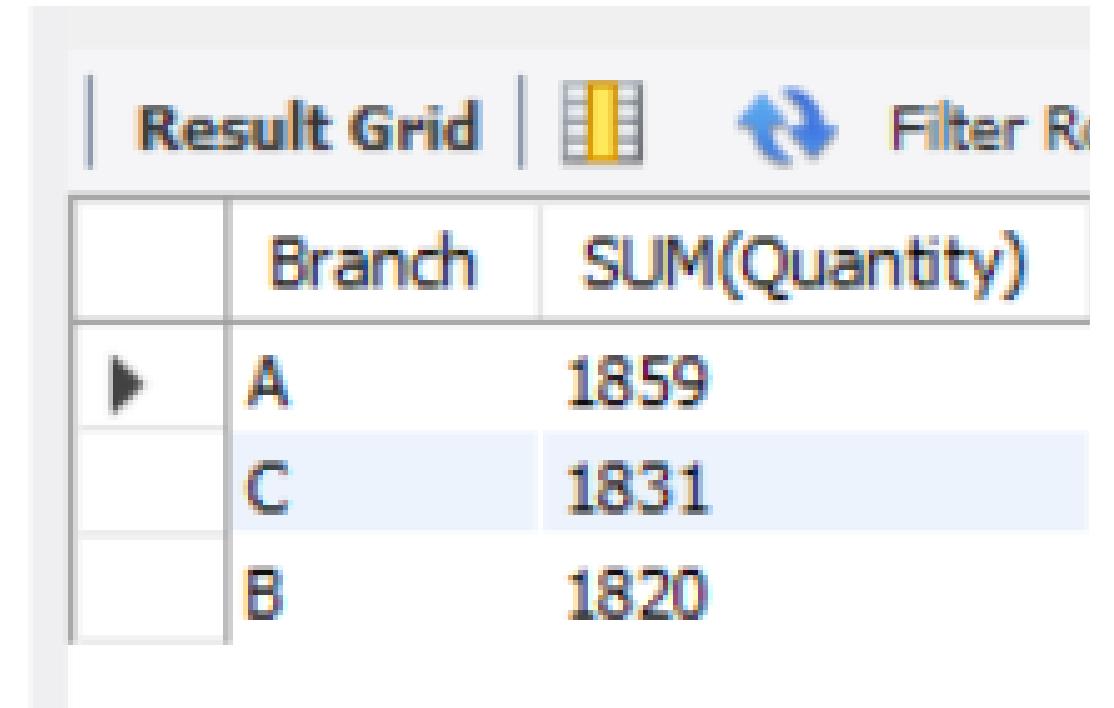


The screenshot shows a database query results grid. The grid has a header row with 'Result Grid' and 'Filter Rows:' buttons. The data is presented in a table with columns 'Product_line' and 'Quality'. The rows show six product lines, all of which are categorized as 'Bad'.

	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

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 ;
```

	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

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



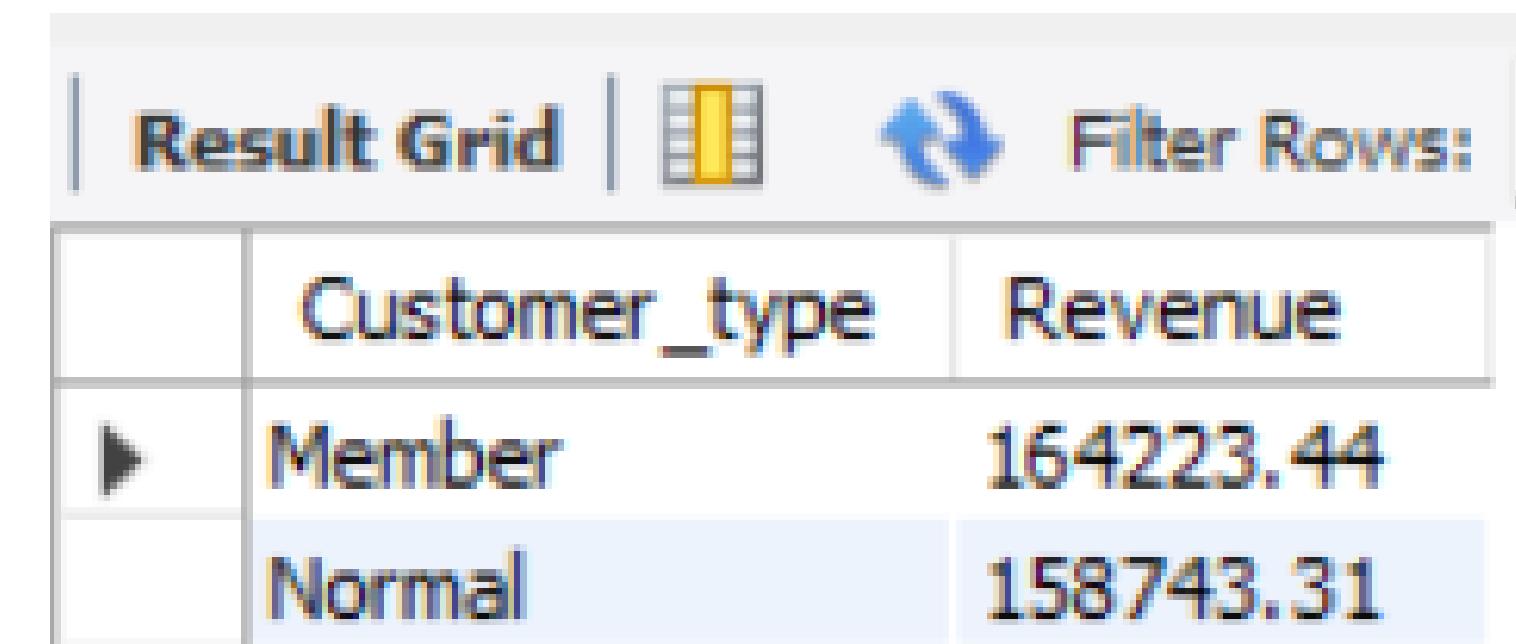
BUSINESS QUESTION / ANSWER

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 ;
```



The image shows a screenshot of a MySQL query results grid. The grid has a header row with 'Customer_type' and 'Revenue'. There are two data rows: one for 'Member' with a revenue of 164223.44, and one for 'Normal' with a revenue of 158743.31. The 'Normal' row is highlighted with a light blue background. The grid has a 'Result Grid' button, a 'Filter Rows:' button, and a refresh icon.

	Customer_type	Revenue
▶	Member	164223.44
	Normal	158743.31

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;
```

The image shows a screenshot of a MySQL Workbench Result Grid. The grid has two columns: 'City' and 'VAT'. The data is as follows:

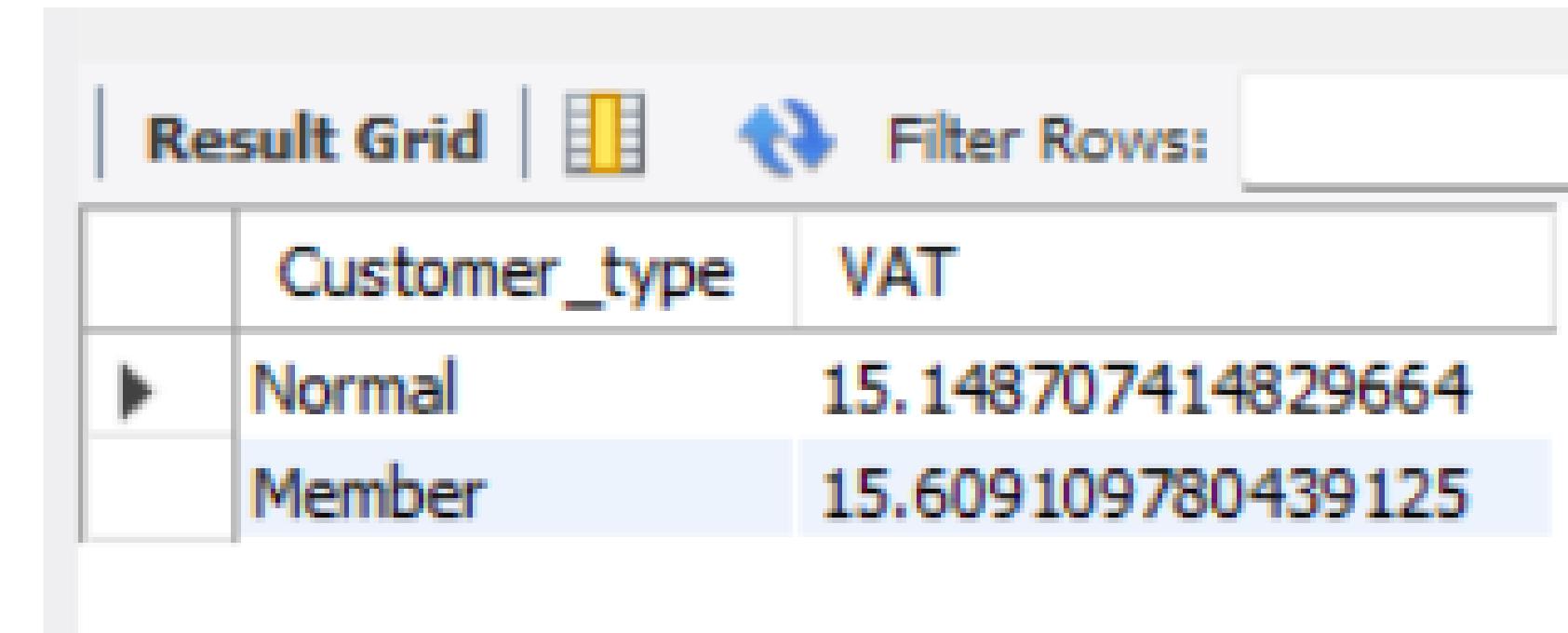
	City	VAT
▶	Naypyitaw	16.05
	Mandalay	15.23
	Yangon	14.87

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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 ;
```



The image shows a screenshot of a database query results grid. The grid has a header row with 'Customer_type' and 'VAT' columns. Below the header, there are two data rows. The first row for 'Normal' customer type has a VAT value of 15.148707414829664. The second row for 'Member' customer type has a VAT value of 15.609109780439125. The VAT values are displayed in a yellow-highlighted format.

	Customer_type	VAT
▶	Normal	15.148707414829664
	Member	15.609109780439125



BUSINESS QUESTION / ANSWER

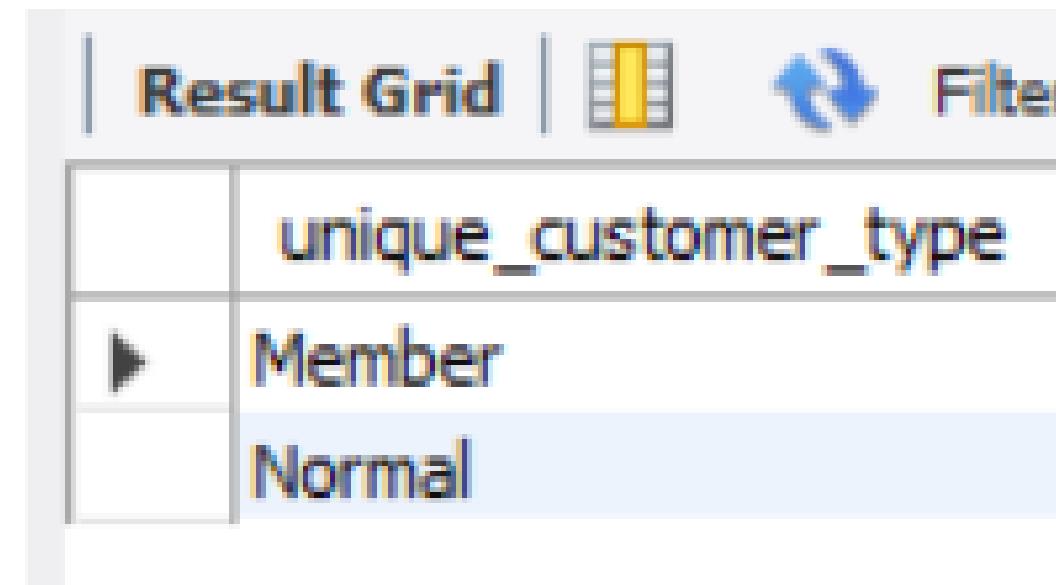
CUSTOMER

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

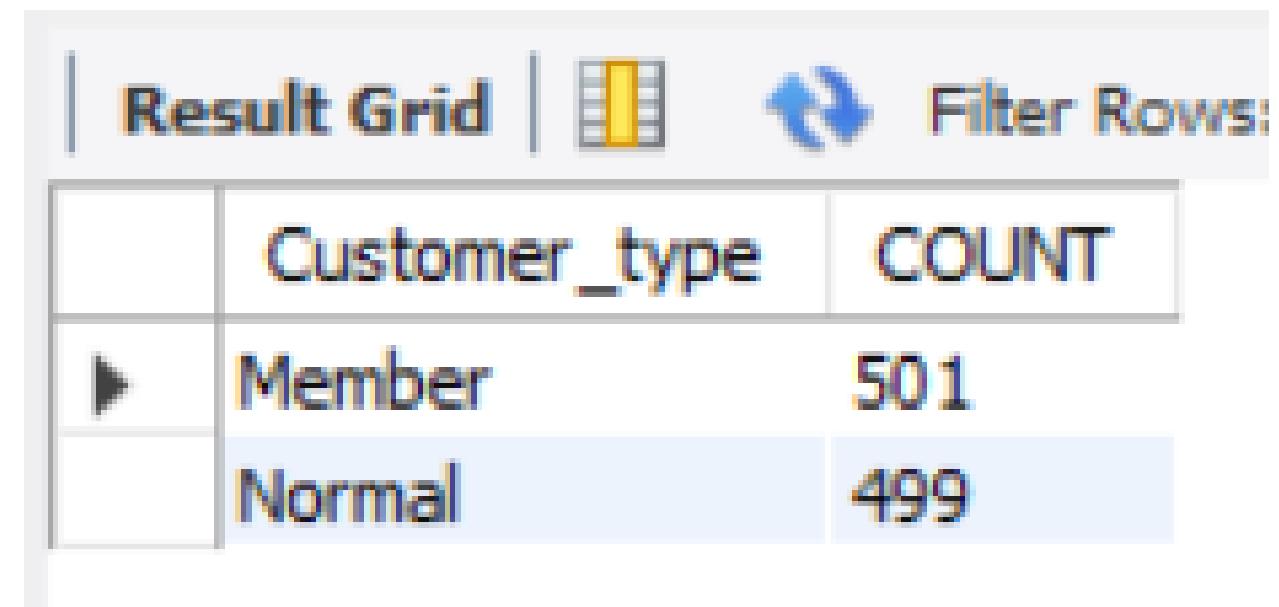
```
SELECT DISTINCT (Customer_type) AS unique_customer_type  
FROM sale.walmart_salee ;
```



	unique_customer_type
▶	Member
	Normal

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 ;
```



The image shows a screenshot of a MySQL query results grid. The grid has a header row with 'Customer_type' and 'COUNT' columns. Below the header, there are two data rows. The first row, 'Member', has a COUNT of 501. The second row, 'Normal', has a COUNT of 499. The grid includes standard database navigation buttons (first, previous, next, last) and a 'Filter Rows' button.

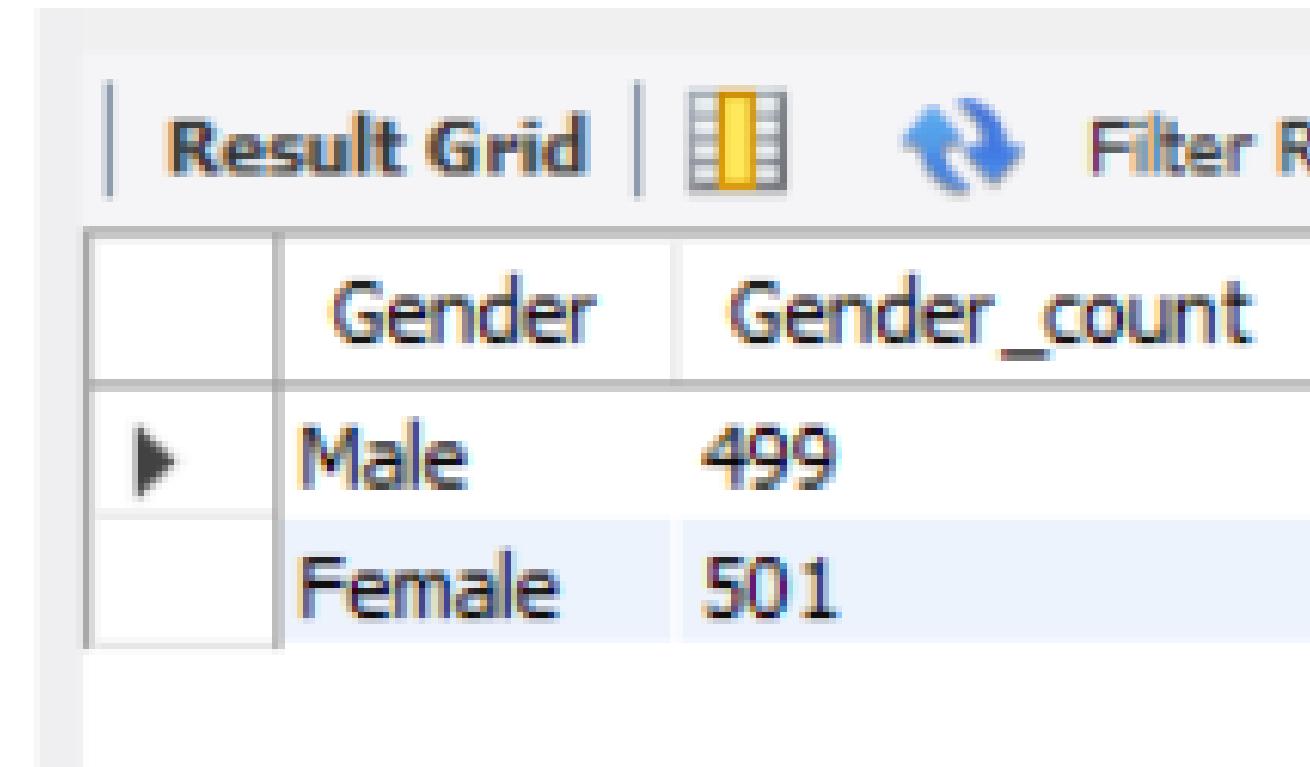
	Customer_type	COUNT
▶	Member	501
	Normal	499

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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 ;
```

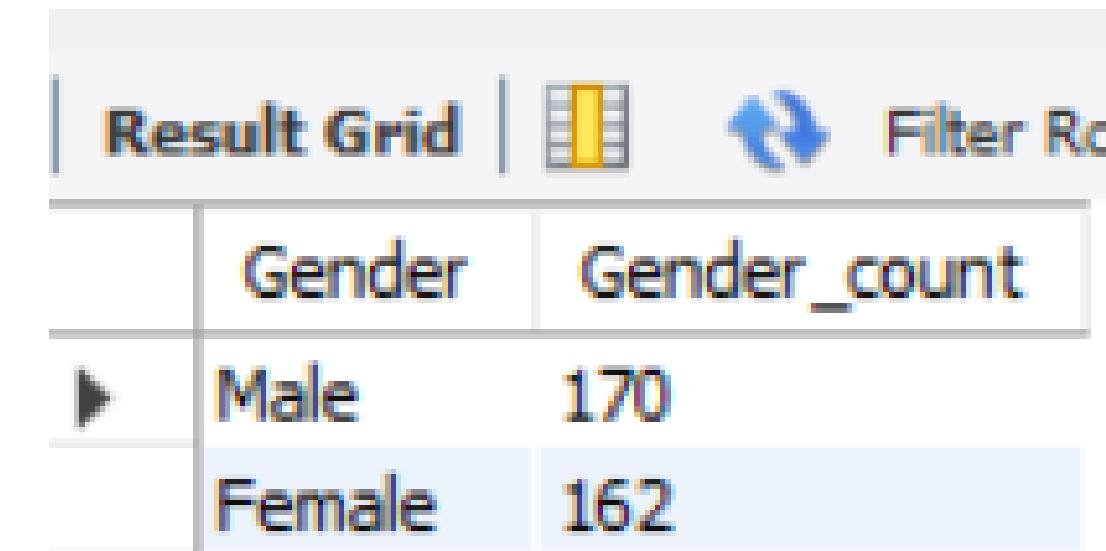


The screenshot shows a MySQL Workbench result grid. The grid has two columns: 'Gender' and 'Gender_count'. There are two rows of data: one for 'Male' with a count of 499, and one for 'Female' with a count of 501. The 'Male' row is highlighted with a light blue background.

	Gender	Gender_count
▶	Male	499
	Female	501

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 ;
```

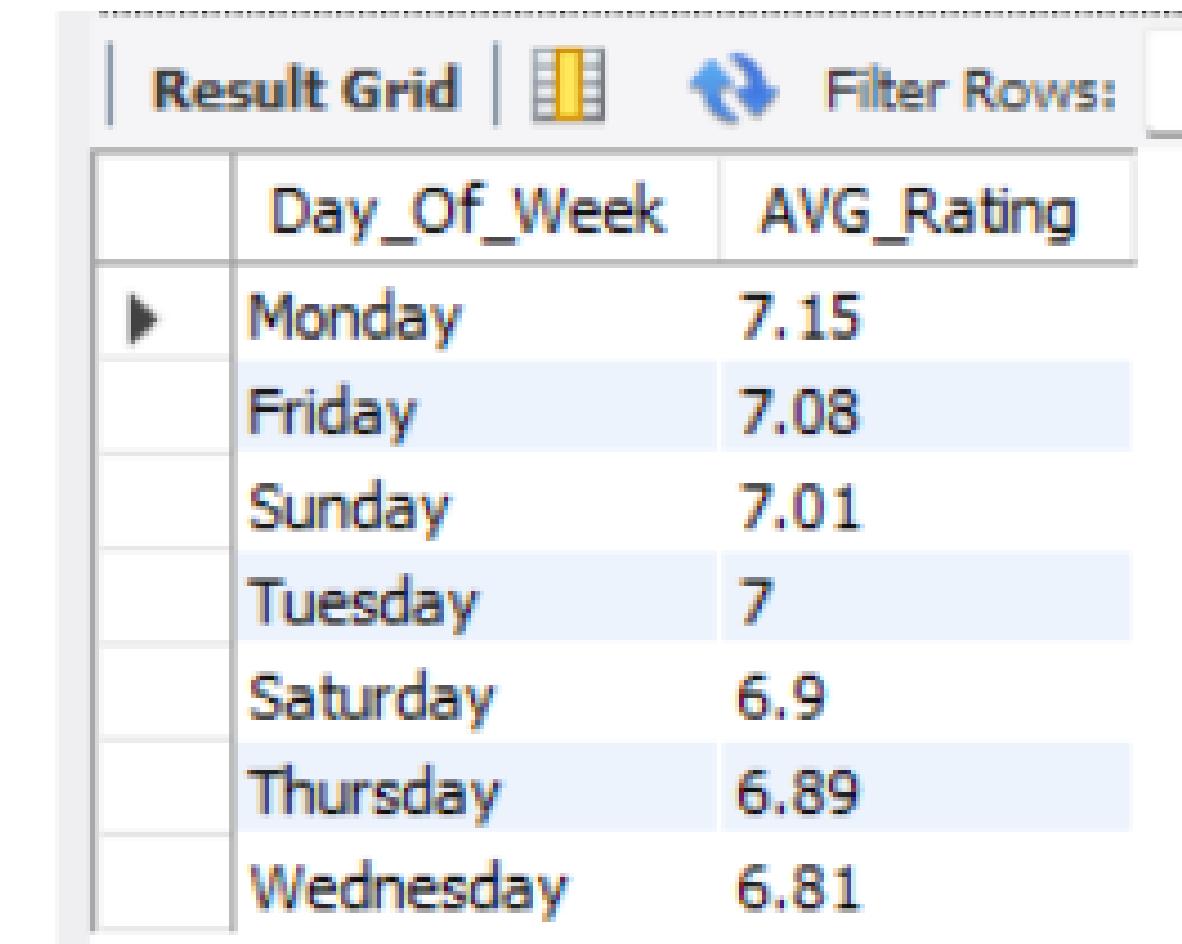


A screenshot of a database result grid. The grid has two columns: 'Gender' and 'Gender_count'. The data shows two rows: 'Male' with a count of 170 and 'Female' with a count of 162. The grid includes standard database navigation buttons like 'Result Grid', 'Filter Row', and arrows for navigating through the data.

Gender	Gender_count
Male	170
Female	162

5. Which day of 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 ;
```

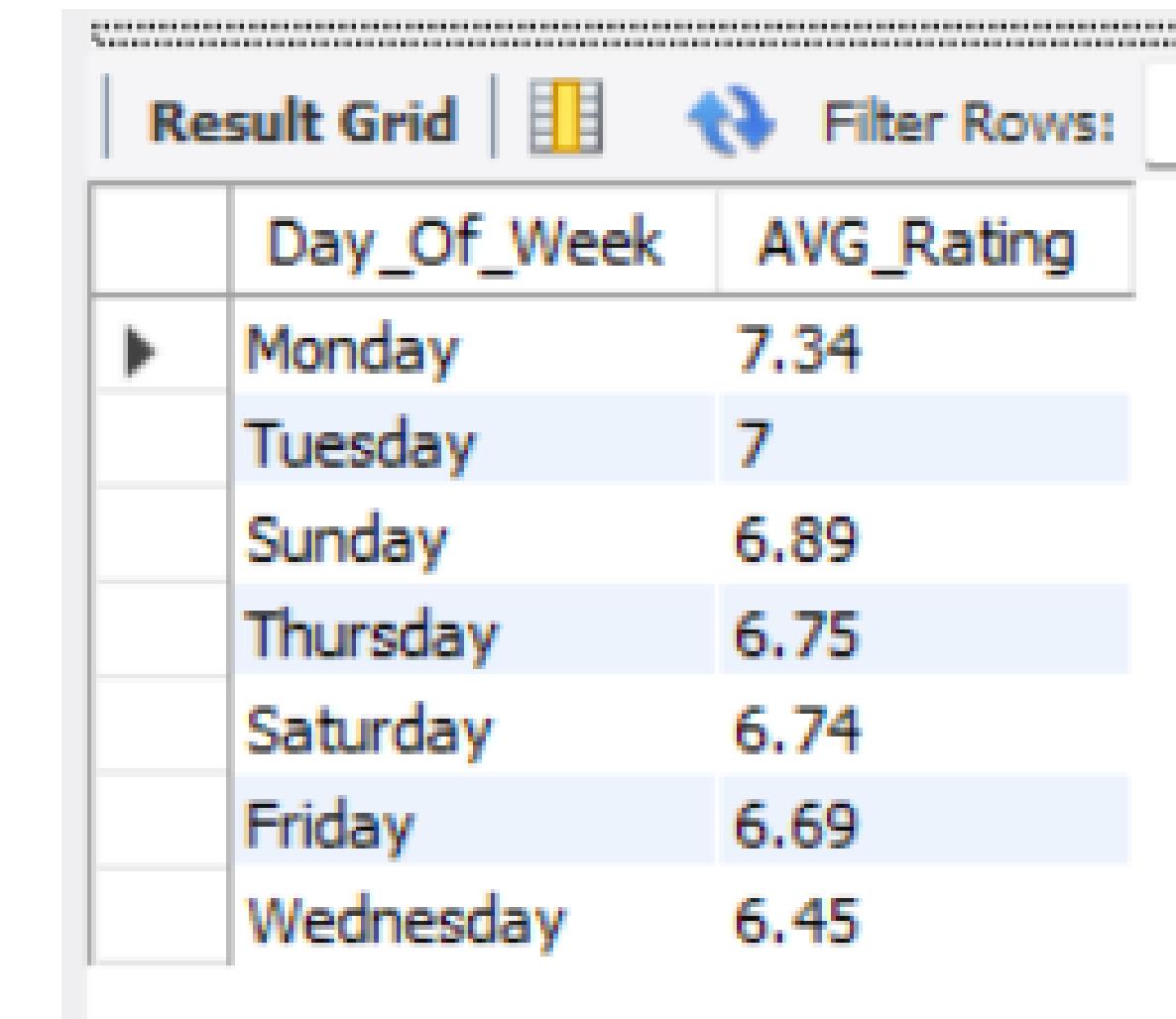


The image shows a screenshot of a database query results grid. The grid has a header row with 'Day_Of_Week' and 'AVG_Rating' columns. Below the header, there are seven data rows, each representing a day of the week and its corresponding average rating. The days are listed in descending order of rating: Monday (7.15), Friday (7.08), Sunday (7.01), Tuesday (7), Saturday (6.9), Thursday (6.89), and Wednesday (6.81). The grid also includes a 'Result Grid' button, a 'Filter Rows' icon, and a small blue circular icon with a white symbol.

	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

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 ;
```



The image shows a database result grid with the following data:

	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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