AMAZON SALES ANALYSIS

SQL-PROJECT





Purposes Of The Project:

THE MAJOR AIM OF THIS PROJECT IS TO GAIN INSIGHT INTO THE SALES DATA OF AMAZON TO UNDERSTAND THE DIFFERENT FACTORS THAT AFFECT SALES OF THE DIFFERENT BRANCHES.



ANALYSIS LIST:

1. PRODUCT ANALYSIS

Conduct analysis on the data to understand the different product lines, the products

2. SALES ANALYSIS

• This analysis aims to answer the question of the sales trends of product. The result of this can help us measure the effectiveness of each sales strategy the business applies and what modifications are needed to gain more sales.

3.CUSTOMER ANALYSIS

• This analysis aims to uncover the different customer segments, purchase trends and the profitability of each customer segment.

APPROACH USED:

1.DATA WRANGLING:

- This is the first step where inspection of data is done to make sure NULL values and missing values are detected and data replacement methods are used to replace missing or NULL values.
- 1.1 Build a database
- 1.2 Create a table and insert the data.
- 1.3 Select columns with null values in them. There are no null values in our database as in creating the tables, we set NOT NULL for each field, hence null values are filtered out.



APPROACH USED:

2. FEATURE ENGINEERING:

- This will help us generate some new columns from existing ones.
- 2.1 Add a new column named **timeofday** to give insight of sales in the Morning, Afternoon and Evening. This will help answer the question on which part of the day most sales are made.
- 2.2 Add a new column named **dayname** that contains the extracted days of the week on which the given transaction took place (Mon, Tue, Wed, Thur, Fri). This will help answer the question on which week of the day each branch is busiest.
- 2.3 Add a new column named **monthname** that contains the extracted months of the year on which the given transaction took place (Jan, Feb, Mar). Help determine which month of the year has the most sales and profit.

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APPROACH USED:

3.EXPLORATORY DATA ANALYSIS (EDA):

• Exploratory data analysis is done to answer the following questions and aims of this project.



FEATURE ENGINEERING: (ADD 'MONTHNAME')

• Step 1: Add a new column 'monthname'.

-ALTER TABLE amazon ADD COLUMN MonthName VARCHAR(20);

Step 2: Update the new column with the 'monthname'.

```
UPDATE amazon SET monthname = CASE
            WHEN MONTH(Date) = 1 THEN 'January'
            WHEN MONTH(Date) = 2 THEN 'February'
            WHEN MONTH(Date) = 3 THEN 'March'
            WHEN MONTH(Date) = 4 THEN 'April'
            WHEN MONTH(Date) = 5 THEN 'May'
            WHEN MONTH(Date) = 6 THEN 'June'
            WHEN MONTH(Date) = 7 THEN 'July'
            WHEN MONTH(Date) = 8 THEN 'August'
            WHEN MONTH(Date) = 9 THEN 'September'
            WHEN MONTH(Date) = 10 THEN 'October'
            WHEN MONTH(Date) = 11 THEN 'November'
ELSE 'December'
END;
```



FEATURE ENGINEERING: (ADD 'DAYS')

• Step 1: Add a new column 'Days'.

-ALTER TABLE amazon ADD COLUMN Days VARCHAR(20);

Step 2: Update the new column with the 'Days' name.

```
SET Days =
    CASE dayofweek(date)
    WHEN 1 THEN 'Sunday'
    WHEN 2 THEN 'Monday'
    WHEN 3 THEN 'Tuesday'
    WHEN 4 THEN 'Wednesday'
    WHEN 5 THEN 'Thursday'
    WHEN 6 THEN 'Friday'
    WHEN 7 THEN 'Saturday'
END;
```



FEATURE ENGINEERING: (ADD 'TIMEOFDAY')

Step 1: Add a new column 'TimeOfDay'.

-ALTER TABLE amazon ADD TimeOfDay VARCHAR(20);

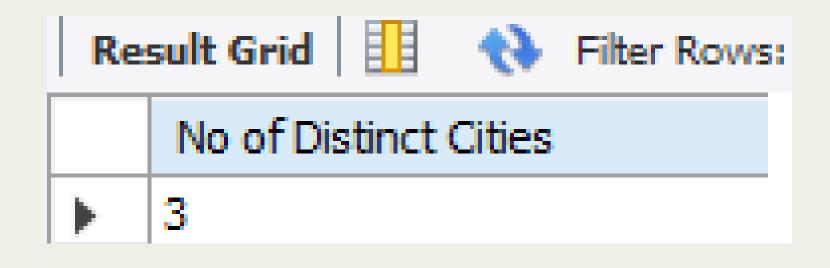
Step 2: Update the new column with the 'TimeOfDay' name.

```
UPDATE amazon
SET TimeOfDay = CASE
    -- Morning: From 00:00:00 to 11:59:59
WHEN EXTRACT(HOUR FROM Time) >= 0 AND EXTRACT(HOUR FROM Time) < 12 THEN 'Morning'
    -- Afternoon: From 12:00:00 to 17:59:59
WHEN EXTRACT(HOUR FROM Time) >= 12 AND EXTRACT(HOUR FROM Time) < 18 THEN 'Afternoon'
    -- Evening: From 18:00:00 to 23:59:59
ELSE 'Evening'
END;</pre>
```



Q1: What is the count of distinct cities in the dataset?

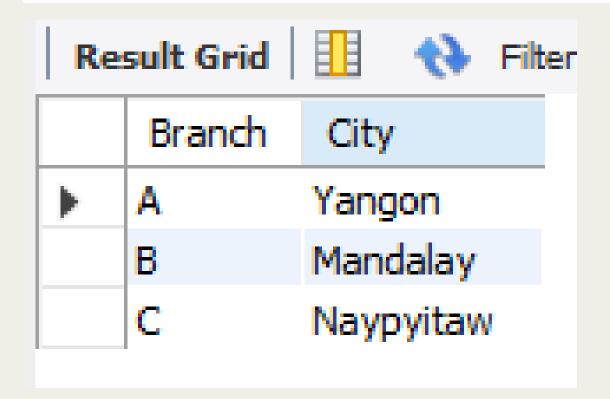
```
select Count(Distinct city) as 'No of Distinct Cities'
from amazon;
```



- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The DISTINCT statement is used to return only distinct (different) values.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('No of Distinct Cities').

Q2: For each Branch, what is the corresponding city?

select
Distinct Branch,City
from amazon ORDER BY Branch;

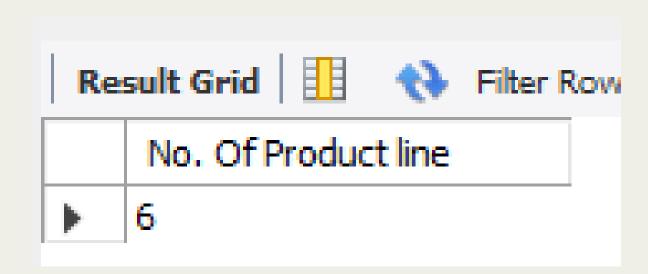


- SELECT statement is used to select data from a database.
- The DISTINCT statement is used to return only distinct (different) values.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q3: What is the Count of Distinct product lines in the dataset?

```
select
Count(distinct `Product line`) as 'No. Of Product line'
from amazon;
```



- SELECT statement is used to select data from a database.
- DISTINCT statement is used to return only distinct (different) values.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('No. Of Product line').

Q4: Which payment method occurs most frequently?

```
select Payment,
count(*) as Frequently_Payment_Method
from amazon
group by Payment
order by Frequently_Payment_Method desc;
```

Re	sult Grid 🛚 📙	Filter Rows:
	Payment	Frequently_Payment_Method
•	Ewallet	345
	Cash	344
	Credit card	311

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q5: Which product line has the highest sales?

```
select `Product line`,
Count(`Invoice ID`) as `Sales Count`
from amazon
group by `Product line`
Order by `Sales Count` desc limit 1;
```


- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.
- The LIMIT clause is used to specify the number of records to return.



Q6: How much revenue is generated each month?

```
select Monthname,
count(total) as Revenue
from amazon
group by Monthname
order by Revenue desc;
```

Re	esult Grid	Filter Rows:
	Monthname	Revenue
>	January	352
	March	345
	February	303

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q7: In which month did the cost of goods sold reach its peak?

```
select Monthname,
sum(cogs) as cogs_sold
from amazon group by Monthname
order by cogs_sold desc;
```

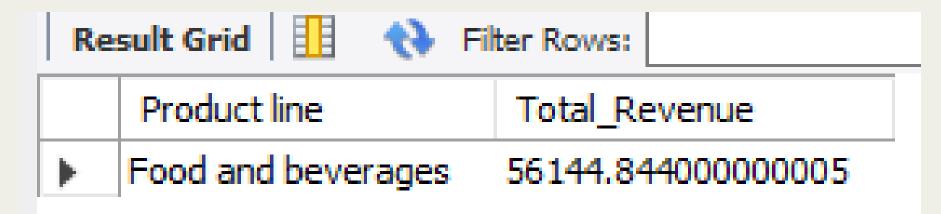
	Result Grid		
Monthname co	gs_sold		
▶ January 11	0754.16000000002		
March 10	4243.33999999997		
February 92	589.88		

- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q8: Which product line generated the highest revenue?

```
select `Product line`,
Sum(Total) as Total_Revenue
from amazon group by `Product line`
order by Total_Revenue desc limit 1;
```

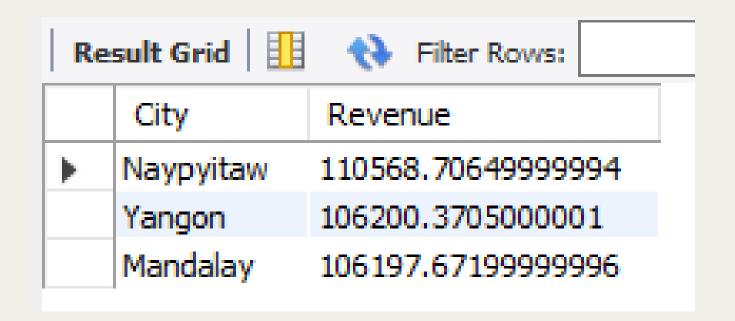


- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.
- The LIMIT clause is used to specify the number of records to return.



Q9: In which city was the highest revenue recorded?

```
select distinct City ,
sum(Total) as Revenue
from amazon
group by City
order by Revenue desc;
```

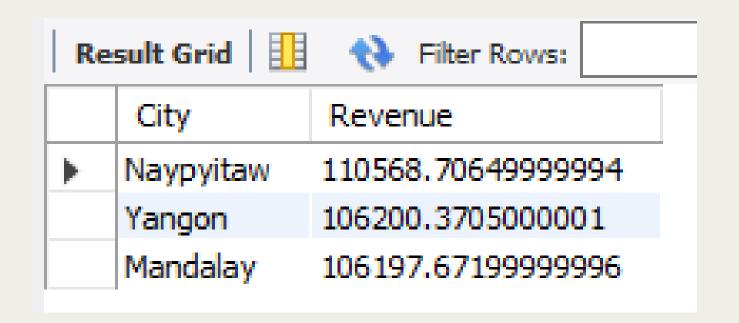


- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q10: Which product line incurred the highest Value Added Tax?

```
select distinct City ,
sum(Total) as Revenue
from amazon
group by City
order by Revenue desc;
```



- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name.
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



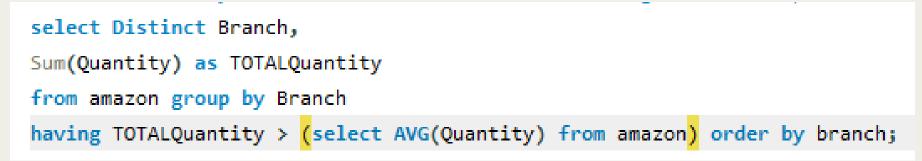
Q11: For each product line, add a column indicating "Good" if its sales are above average, otherwise "Bad."

```
select `Product line`,sum(Total) as TotalSales,
case when
sum(Total) > (select Avg(Total) as avg from amazon) then "Good"
else "Bad" end as SalesType
from amazon group by `Product line`
order by TotalSales desc;
```

Re	Result Grid				
	Product line	TotalSales	SalesType		
•	Food and beverages	56144.844000000005	Good		
	Sports and travel	55122.826499999996	Good		
	Electronic accessories	54337.531500000005	Good		
	Fashion accessories	54305.895	Good		
	Home and lifestyle	53861.91300000001	Good		
	Health and beauty	49193.739000000016	Good		

- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- The CASE statement goes through conditions and returns a value when the first condition is met (like an if-then-else statement). So, once a condition is true, it will stop reading and return the result. If no conditions are true, it returns the value in the ELSE clause. If there is no ELSE part and no conditions are true, it returns NULL.
- In this we used NON-CORREALATED SUBQUERY. The inner query doesn't depend on the outer query and can run as a stand-alone query
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.

Q12: Identify the branch that exceeded the average number of products sold.



Result Grid			
	Branch	TOTALQu	antity
•	Α	1859	
	В	1820	
	С	1831	

- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(TOTALQuantity).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The HAVING clause was added to SQL because the WHERE keyword cannot be used with aggregate functions.
- In this we used NON-CORREALATED SUBQUERY. The inner query doesn't depend on the outer query and can run as a stand-alone query
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.

Q13: Which product line is most frequently associated with each gender?

```
select `Product line`,Gender,
Count('Invoice ID') as Frequency
from Amazon group by `Product line`,Gender
order by Count('Invoice ID') desc;
```

Re	Result Grid				
	Product line Gender		Frequency		
•	Fashion accessories	Female	96		
	Food and beverages	Female	90		
	Health and beauty	Male	88		
	Sports and travel	Female	88		
	Electronic accessories	Male	86		

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Frequency).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q14: Calculate the average rating for each product line.

```
select `Product line`,
Avg(Rating) as AVG_RATING
from Amazon group by `Product line`
order by AVG_RATING desc;
```

Re	Result Grid			
	Product line	AVG_RATING		
•	Food and beverages	7.113218390804598		
	Fashion accessories	7.029213483146067		
	Health and beauty	7.003289473684212		
	Electronic accessories	6.92470588235294		
	Sports and travel	6.916265060240964		
	Health and beauty Electronic accessories	7.003289473684212 6.92470588235294		

- The SELECT statement is used to select data from a database.
- The AVG() function returns the average value of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(AVG_RATING).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q15: Count the sales occurrences for each time of day on every weekday.

```
select Days,TimeOfDay,
Count('Invoice ID') as 'Sales Count' from amazon
where Days not in ('Saturday','Sunday')
group by Days,TimeOfDay order by Days,'Sales Count';
```

Re	Result Grid Filter Rows:				
	Days	TimeOfDay	Sales Count		
•	Friday	Afternoon	74		
	Friday	Evening	36		
	Friday	Morning	29		
	Monday	Afternoon	75		
	Monday	Evening	29		
	Monday	Morning	21		
	Thursday	Afternoon	76		

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The WHERE clause is used to filter records. It is used to extract only those records that fulfill a specified condition.
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q16: Identify the customer type contributing the highest revenue.

```
select `Customer type`,
Sum(Total) as 'Highest Revenue'
from amazon group by `Customer type`
order by 'Highest Revenue';
```

Re	Result Grid		
	Customer type	Highest Revenue	
•	Member	164223.44400000002	
	Normal	158743.30500000005	

- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name ('Highest Revenue').
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q17: Determine the city with the highest VAT percentage.

```
select City ,
sum(`Tax 5%`) as 'Highest VAT%'
from amazon group by City
order by 'Highest VAT%';
```

Result Grid				
	City	Highest VAT%		
•	Yangon	5057.160500000002		
	Naypyitaw	5265.176500000002		
	Mandalay	5057.032000000003		

- The SELECT statement is used to select data from a database.
- The SUM() function returns the total sum of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('Highest VAT%').
- The ORDER BY keyword is used to sort the resultset in ascending or descending order.



Q18: Identify the customer type with the highest VAT payments.

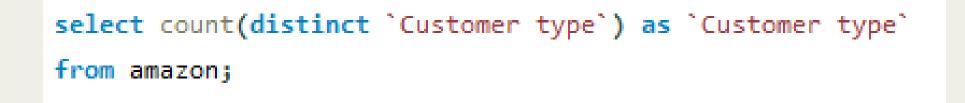
```
select `Customer type`,
sum(`Tax 5%`) as 'Highest VAT%'
from amazon group by `Customer type`
order by 'Highest VAT%';
```

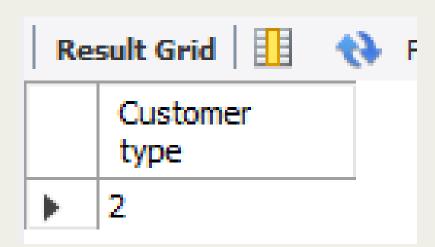
Result Grid 🔢 🙌 Filter Rows:			
	Customer type	Highest VAT%	
•	Member	7820.164000000002	
	Normal	7559.205000000003	

- The SELECT statement is used to select data from a database AND
- The SUM() function returns the total sum of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('Highest VAT%').
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q19: What is the count of distinct customer types in the dataset?



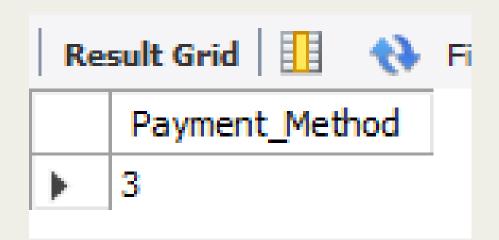


- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The DISTINCT statement is used to return only distinct (different) values.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('`Customer type`).



Q20: What is the count of distinct payment methods in the dataset?

select Count(distinct Payment) as Payment_Method
from amazon;



- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The DISTINCT statement is used to return only distinct (different) values.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Payment_Method).



Q21: Which customer type occurs most frequently?

```
select `Customer type`,
Count(`Invoice ID`) as 'No. Of Frequency'
from amazon group by `Customer type`;
```

Result Grid		
	Customer type	No. Of Frequency
•	Member	501
	Normal	499

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name('No. Of Frequency').
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.



Q22: Identify the customer type with the highest purchase frequency.

```
select `Customer type`,
Count(`Invoice ID`) as 'Highest Purchase Frequency'
from amazon group by `Customer type`;
```

Result Grid		
	Customer type	Highest Purchase Frequency
•	Member	501
	Normal	499

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name("Highest Purchase Frequency").
- The GROUP BY statement groups rows that have the same values into summary rows.
 GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.



Q23: Determine the predominant gender among customers.

```
select Gender,
Count(Gender) as Predominat_Gender
from amazon group by Gender
order by Predominat_Gender desc;
```

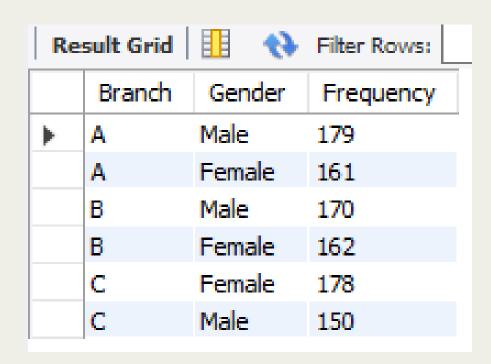
Result Grid				
	Gender	Predominat_Gender		
>	Female	501		
	Male	499		
	-			

- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Predominat_Gender).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q24: Examine the distribution of genders within each branch.

```
select Branch, Gender,
count(*) as Frequency from amazon
group by Branch, Gender
order by Branch, Frequency desc;
```

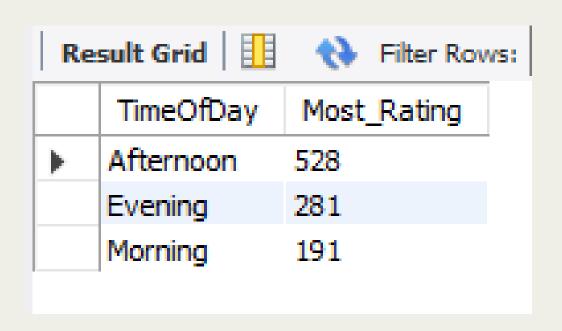


- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the result-set in ascending or descending order.



Q25: Identify the time of day when customers provide the most ratings.

select TimeOfDay,Count(Rating) as Most_Rating
from amazon group by TimeOfDay
order by Most_Rating desc;



- The SELECT statement is used to select data from a database.
- The COUNT() function returns the number of rows that matches a specified criterion.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Most_Rating).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the resultset in ascending or descending order.



Q26: Determine the time of day with the highest customer ratings for each branch.

```
select Branch, TimeOfDay,
AVG(Rating) as AVG_Rating
from amazon group by Branch, TimeOfDay
order by Branch, AVG_Rating desc;
```

Re	Result Grid				
	Branch	TimeOfDay	AVG_Rating		
•	Α	Afternoon	7.0567567567567595		
	Α	Morning	7.005479452054794		
	Α	Evening	6.979268292682928		
	В	Morning	6.891525423728813		
	В	Afternoon	6.806790123456792		
	В	Evening	6.795495495495		
	С	Afternoon	7.0955801104972345		

- The SELECT statement is used to select data from a database.
- The AVG() function returns the average value of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(AVG_Rating).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the resultset in ascending or descending order..



Q27: Identify the day of the week with the highest average ratings.

select Days,Avg(Rating) as Highest_AVG_Rating
from amazon group by Days
order by Highest_AVG_Rating desc;

Re	sult Grid	National Company of the Printer Rows:
	Days	Highest_AVG_Rating
•	Monday	7.153599999999999
	Friday	7.076258992805756
	Sunday	7.011278195488723
	Tuesday	7.003164556962025
	Saturday	6.901829268292688
	Thursday	6.88985507246377
	Wednesday	6.805594405594405

- The SELECT statement is used to select data from a database.
- The AVG() function returns the average value of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Highest_AVG_Rating).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the resultset in ascending or descending order.



Q28: Determine the day of the week with the highest average ratings for each branch.

select Days,Branch,
Avg(Rating) as Highest_AVG_Rating
from amazon group by Days,Branch
order by Highest_AVG_Rating desc;

Re	Result Grid				
	Days	Branch	Highest_AVG_Rating		
)	Monday	В	7.335897435897434		
	Friday	Α	7.3119999999999985		
	Friday	С	7.278947368421051		
	Saturday	С	7.229629629629631		
	Monday	Α	7.097916666666666		
	Sunday	Α	7.078846153846157		
	Wednesday	С	7.064000000000004		

- The SELECT statement is used to select data from a database.
- The AVG() function returns the average value of a numeric column.
- ALIASES (as) are used to give a table, or a column in a table, a temporary name(Highest_AVG_Rating).
- The GROUP BY statement groups rows that have the same values into summary rows. GROUP BY statement is often used with aggregate functions (COUNT(), MAX(), MIN(), SUM(), AVG()) to group the result-set by one or more columns.
- The ORDER BY keyword is used to sort the resultset in ascending or descending order.



PRODUCT ANALYSIS

1.

There is 6 Product line given in Amazon Database.

2.

Most Attracting
Product line for
Female is Fassion
Accessories.

3.

FOOD & BEVERAGES
Product line has a
HIGHEST REVENUE.



SALES ANALYSIS

. 2.

NAPYTAW City has a Highest Revenue

Highest Revenue
Month is JANUARY.

3.

Member Cutomer has Contributed more for the Revenue.



CUSTOMER ANALYSIS

1.

EWallet is the Most Frequently Payment Method Used by Customer.

2.

Predominant
Customer is Female.

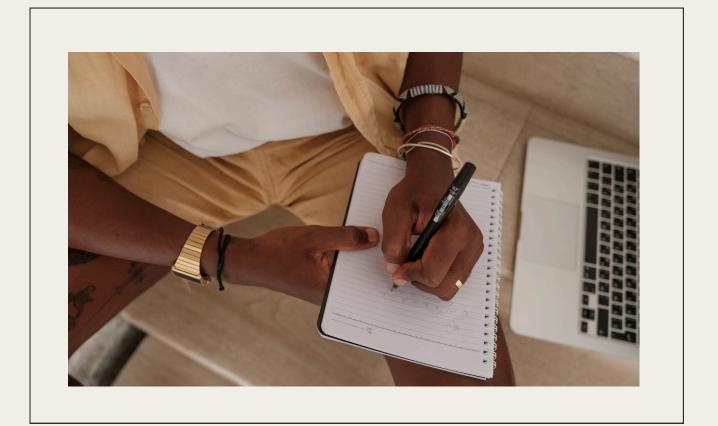
3.

Customer provide the most rating at afternoon time.



RECOMENDATIONS & IMPROVEMENTS:

- **1.** Underperformed Product line such as Health and Beauty could be improved by performing Offers for Customers.
- 2. Develop More Market strategies/Offers for loyal and other Customer segments.
- **3.** Focus on product lines and customer segments generating the highest revenue and VAT.
- **4.** Utilize customer ratings to improve product offerings and customer service. Focus on times of day and branches with lower average ratings to enhance the overall customer experience.





ACHIEVMENTS:

- Gained comprehensive insights into sales data, enabling data-driven decision-making.
- Improved understanding of customer behavior and sales performance metrics.



By implementing these suggestions based on the SQL analysis, Amazon can make datadriven decisions to optimize sales, enhance customer satisfaction, and improve overall business performance.



Thank you!

