



MALL EPURCHASE DATA ANALYSIS

Neha Barbate

1) How many unique categories are there?

```
SELECT Category_Grouped
FROM paytm
GROUP BY Category_Grouped;
```

Category_Grouped
Others
Apparels
Shoes
Home

2) List the top 5 shipping cities in terms of the number of orders?

```
SELECT shipping_city, COUNT(*)
AS OrderCount FROM paytm
GROUP BY shipping_city
ORDER BY OrderCount DESC
LIMIT 5;
```

shipping_city	OrderCount
New Delhi	4560
Chennai	4254
Bangalore	3974
Mumbai	3159
Hyderabad	2849

3) Show me a table with all the data for products that belong to the "Electronics" category.

There is no data for products that belong to the "Electronics" category

4) Filter the data to show only rows with a "Sale_Flag" of 'Yes'

```
SELECT * FROM paytm  
WHERE Sale_Flag = 'On Sale';
```

5) Sort the data by "Item_Price" in descending order. What is the most expensive item?

```
SELECT * FROM paytm  
ORDER BY Item_Price  
DESC LIMIT 1;
```

6) Apply conditional formatting to highlight all products with a "Special_Price_effective" value below \$50 in red

```
SELECT * FROM paytm WHERE  
Special_Price_effective < 50;
```


7) Calculate the average "Quantity" sold for products in the "Clothing" category, grouped by "Product_Gender."

```
SELECT Product_Gender, AVG(Quantity) AS  
AvgQuantity FROM paytm  
WHERE Category_Grouped = 'Apparels'  
GROUP BY Product_Gender;
```

Product_Gender	AvgQuantity
MEN	1
WOMEN	1

8) Find the top 5 products with the highest "Value_CM1" and "Value_CM2" ratios.

```
SELECT *, Value_CM1 / Value_CM2 AS CM_Ratio  
FROM paytm  
ORDER BY CM_Ratio DESC  
LIMIT 5;
```

9) Identify the top 3 "Class" categories with the highest total sales.

```
SELECT Class, SUM(Item_Price * Quantity) AS TotalSales  
FROM paytm  
GROUP BY Class  
ORDER BY TotalSales DESC  
LIMIT 3;
```

10) Identify products with a "Paid_pr" higher than the average in their respective "Family" and "Brand" groups

```
SELECT  t.`S.no`,  t.`Name`,  t.Family,  t.Brand,
t.Paid_prFROM  paytm t
JOIN (  SELECT      Family,      Brand,      AVG(Paid_pr) AS
AvgPaid_pr
FROM      paytm  GROUP BY      Family, Brand) AS avg_table
ON t.Family = avg_table.Family
AND t.Brand = avg_table.Brand
WHERE  t.Paid_pr > avg_table.AvgPaid_pr;
```

Thank You