INTERNSHIP

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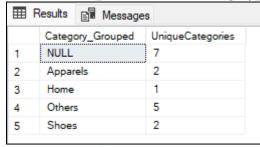
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SQL INTERNSHIP

Paytm Data SQL ASSESSMENT

1. What does the "Category_Grouped" column represent, and how many unique categories are there?

SELECT DISTINCT Category_Grouped, COUNT(DISTINCT Category) AS UniqueCategories FROM Purchase_data GROUP BY Category_Grouped;



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

SELECT 7 5 Shipping_city, COUNT(*) AS OrderCount

FROM Purchase_data
GROUP Ex Shipping_city
ORDER Ex OrderCount FESC

Results	Messages	
Shipping_city	OrderCount	
New Delhi	4560	
Chennai	4254	
3	Bangalore	3974
4	Mumbai	3159



3. Filter the data to show only rows with a "Sale_Flag" of 'Yes'.

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SELECT *

5

FROM Purchase_data

Hyderabad

WHERE Sale_Flag = 'On Sale';

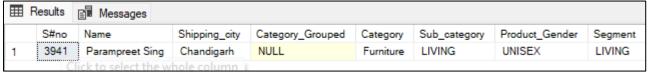
	Brand	Brick	Item_NM	Color	Size	Sale_Flag	Payment_Method
1	TOMMY HILFIGER	CHRONOGRAPH	Th1790787/D Sport Black /White Chronograph-Mksp	BLACK	FREE SIZE	On Sale	Prepaid
2	HIDESIGN	HANDBAG	Downing Street 04 Black Handbag	BLACK	STANDARD	On Sale	COD
3	REEBOK	RUNNING SHOES	Ventilator HIs Grey Running Shoes	GREY	10	On Sale	Prepaid
4	NIKE	RUNNING SHOES	Lunarswift+ 4 Black Running Shoes	BLACK	5	On Sale	COD
5	PLAYBOY	ANALOG WATCH	Bpb-0016-C Rose Gold/White Analog Watch	GOLD	FREE SIZE	On Sale	COD
6	GIORDANO	CHRONOGRAPH WATCHES	Giordano Black Chronograph Watches	BLACK	FREE SIZE	On Sale	COD
7	CASIO	ANALOG WATCH	ED417-EF-130D-1A2VDF silver Analog Watch	SILVER	FREE SIZE	On Sale	COD
8	CALVIN KLEIN JEANS	SUNGLASSES	Green/Green Sunglasses	GREEN	FREE SIZE	On Sale	Prepaid
9	TRUHOME	NEST OF TABLE	Eureka Brussels Nest of Tables	BROWN	FREE SIZE	On Sale	Prepaid
10	GIORDANO	ANALOG WATCH	2641-44 Gold/Silver Analog Watch	GOLD	FREE SIZE	On Sale	COD
11	SKINS	TIGHTS	SKINS Navy Blue Tights	BLACK	XL	On Sale	COD
12	NIKE	RUNNING SHOES	Lunarswift+ 4 Black Running Shoes	BLACK	5	On Sale	COD
13	SWATCH	CHRONOGRAPH	White/ Balck Chronograph	WHITE	FREE SIZE	On Sale	COD
14	CASIO	ANALOG WATCH	Sheen Silver/Black Analog Watch	SILVER	FREE SIZE	On Sale	COD
15	PLAYBOY	ANALOG WATCH	Bpb-1004-C Silver/Black Analog Watch	SILVER	FREE SIZE	On Sale	COD
16	SWATCH	CHRONOGRAPH	White/ Balck Chronograph	WHITE	FREE SIZE	On Sale	COD
17	ESPRIT	ANALOG WATCH	Es104201004 Black / Rose Gold Analog Watch	BLACK	FREE SIZE	On Sale	COD
18	SATYA PAUL	SAREES	Designer Printed Crepe Saree	MULTI	FREE SIZE	On Sale	COD
19	TRUHOME	NEST OF TABLE	Eureka Brussels Nest of Tables	BROWN	FREE SIZE	On Sale	Prepaid

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

SELECT TOP 1 *

FROM Purchase_data

ORDER BY Item_Price DESC;



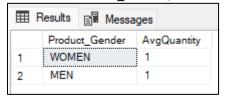
5. Calculate the average "Quantity" sold for products in the "Clothing" category, grouped by "Product_Gender."

SELECT Product_Gender, AVG(Quantity) AS AvgQuantity

FROM Purchase data

WHERE Category = 'Women Apparel' or Category = 'Men Apparel'

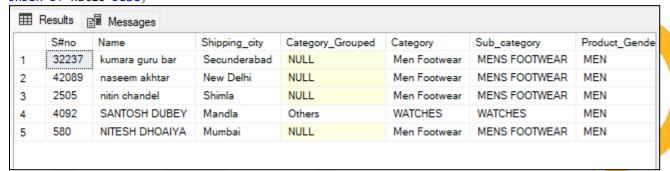
GROUP BY Product Gender;



6. Find the top 5 products with the highest "Value_CM1" and "Value_CM2" ratios. Create a chart to visualize this data.

SELECT TOP 5 *, (Value_CM1 / Value_CM2) AS Ratio
FROM Purchase data

ORDER BY Ratio DESC;



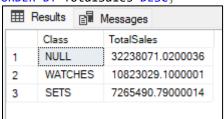
7. Identify the top 3 "Class" categories with the highest total sales. Create a stacked bar chart to represent this data.

SELECT TOP 3 Class, SUM(Value_CM1) AS TotalSales

FROM Purchase_data

GROUP BY Class

ORDER BY TotalSales DESC;



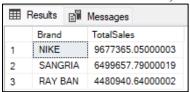
8. Find the total sales for each "Brand" and display the top 3 brands in terms of sales.

SELECT TOP 3 Brand, SUM(Value_CM1) AS TotalSales

FROM Purchase_data

GROUP BY Brand

ORDER BY TotalSales DESC;



9. Calculate the total revenue generated from "Electronics" category products with a "Sale_Flag" of 'Yes'.

SELECT COALESCE(SUM(Value_CM1),0) AS TotalRevenue

FROM Purchase_data

WHERE Sale_Flag = 'On Sale';



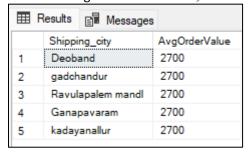
10. Identify the top 5 shipping cities based on the average order value (total sales amount divided by the number of orders) and display their average order values.

SELECT TOP 5 Shipping_city, AVG(Value_CM1 / Quantity) AS AvgOrderValue

FROM Purchase data

GROUP BY Shipping_city

ORDER BY AvgOrderValue DESC;



11. Determine the total number of orders and the total sales amount for each "Product_Gender" within the

"Clothing category.

SELECT Product_Gender

FROM Purchase_data
WHERE Category = or Categor bparel

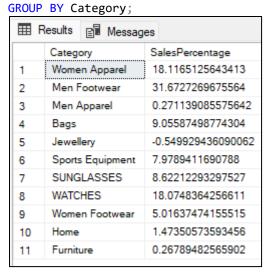
GROUP E roduct Gender:

Ⅲ	Results 📳 Messa	Messages				
	Product_Gender	TotalOrders	TotalSales			
1	WOMEN	6931	10847984.3500001			
2	MEN	121	162355.34			

12. Calculate the percentage contribution of each "Category" to the overall total sales.

SELECT Category, (SUM(Value CM1) / (SELECT SUM(Value CM1) FROM Purchase data)) * 100 AS SalesPercentage

FROM Purchase_data



13. Identify the "Category" with the highest average "Item_Price" and its corresponding average price. SELECT TOP 1 Category, $AVG(Item_Price)$ AS AvgItemPrice

FROM Purchase_data

GROUP BY Category

ORDER BY AvgItemPrice DESC;



14. Calculate the total sales for each "Segment" and the average quantity sold per order for each segment.

SELECT Segment, SUM(Value_CM1) AS TotalSales, AVG(Quantity) AS AvgQuantityPerOrder

FROM Purchase data GROUP BY Segment:

⊞	Results 📳 Messages			
	Segment	TotalSales	AvgQuantityPerOrder	
1	MENS ACCESSORIES	1934545.55000004	1	
2	OUTDOOR & HIKING	750928.610000002	1	
3	MENS WEAR	4026780.60000021	1	
4	WOMENS ACCESSORIES	2108135.89999999	1.01057501652346	
5	UNISEX	4205905.28999995	1	
6	LADIES FOOTWEAR	3003754.42000002	1	
7	WOMEN	5254767.19000002	1.00186760738742	
8	WOMENS JEWELLERY	-329292.180000002	1.00498338870432	
9	MENS APPARELS	162355.34	1	
10	HOME FURNISHING	882320.319999992	1	
11	LIVING	160412.710000001	1	
12	MENS FOOTWEAR	18965308.3199995	1.00034000113334	
13	WOMENS WEAR	10847984.3500001	1	
14	SUNGLASSES	4480940.64000002	1	
15	MEN	3424140.74999995	1	

