

# INTERNSHIP

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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;
```

	Category_Grouped	UniqueCategories
1	NULL	7
2	Apparels	2
3	Home	1
4	Others	5
5	Shoes	2

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

```
SELECT TOP 5 Shipping_city, COUNT(*) AS OrderCount
FROM Purchase_data
GROUP BY Shipping_city
ORDER BY OrderCount DESC;
```

	Shipping_city	OrderCount
1	New Delhi	4560
2	Chennai	4254
3	Bangalore	3974
4	Mumbai	3159
5	Hyderabad	2849

3. Filter the data to show only rows with a "Sale\_Flag" of 'Yes'.

```
SELECT *
FROM Purchase_data
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 Hls 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;
```

Results Messages								
	S#no	Name	Shipping_city	Category_Grouped	Category	Sub_category	Product_Gender	Segment
1	3941	Parampreet Sing	Chandigarh	NULL	Furniture	LIVING	UNISEX	LIVING

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;
```

Results Messages		
	Product_Gender	AvgQuantity
1	WOMEN	1
2	MEN	1

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;
```

Results Messages							
	S#no	Name	Shipping_city	Category_Grouped	Category	Sub_category	Product_Gender
1	32237	kumara guru bar	Secunderabad	NULL	Men Footwear	MENS FOOTWEAR	MEN
2	42089	naseem akhtar	New Delhi	NULL	Men Footwear	MENS FOOTWEAR	MEN
3	2505	nitin chandel	Shimla	NULL	Men Footwear	MENS FOOTWEAR	MEN
4	4092	SANTOSH DUBEY	Mandla	Others	WATCHES	WATCHES	MEN
5	580	NITESH DHOAIYA	Mumbai	NULL	Men Footwear	MENS FOOTWEAR	MEN

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;
```

Results Messages		
	Class	TotalSales
1	NULL	32238071.0200036
2	WATCHES	10823029.1000001
3	SETS	7265490.79000014

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;
```

Results Messages		
	Brand	TotalSales
1	NIKE	9677365.05000003
2	SANGRIA	6499657.79000019
3	RAY BAN	4480940.64000002

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';
```

Results		Messages
	TotalRevenue	
1	17392740.6099996	

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;
```

Results		Messages
	Shipping_city	AvgOrderValue
1	Deoband	2700
2	gadchandur	2700
3	Ravulapalem mandl	2700
4	Ganapavaram	2700
5	kadayanallur	2700

11. Determine the total number of orders and the total sales amount for each "Product\_Gender" within the "Clothing" category.

```
SELECT Product_Gender, COUNT(*) AS TotalOrders, SUM(Value_CM1) AS TotalSales
FROM Purchase_data
WHERE Category = 'Women Apparel' or Category = 'Men Apparel'
GROUP BY Product_Gender;
```

Results		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
GROUP BY Category;
```

Results		Messages
	Category	SalesPercentage
1	Women Apparel	18.1165125643413
2	Men Footwear	31.6727269675564
3	Men Apparel	0.271139085575642
4	Bags	9.05587498774304
5	Jewellery	-0.549929436090062
6	Sports Equipment	7.9789411690788
7	SUNGLASSES	8.62212293297527
8	WATCHES	18.0748364256611
9	Women Footwear	5.01637474155515
10	Home	1.47350573593456
11	Furniture	0.26789482565902

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;
```

Results Messages		
	Category	AvgItemPrice
1	Furniture	7560.60114503817

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