





WALMART DATA ANALYSIS

BY : SHAMBHAVI S



Retrieve all columns for sales made in a specific branch (e.g., Branch 'A').

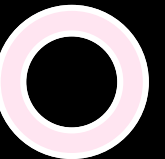
```
Select *  
from walmart.data  
where Branch = 'A';
```

Result Grid																	 Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:	
	Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross							
	750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	2019-01-05	13:08:00	Ewallet	522.83	4.76							
	631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	2019-03-03	13:23:00	Credit card	324.31	4.76							
	123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	2019-01-27	20:33:00	Ewallet	465.76	4.76							
	373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	2019-02-08	10:37:00	Ewallet	604.17	4.76							
	355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	2019-02-25	14:36:00	Ewallet	413.04	4.76							
	665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	2019-01-10	17:15:00	Credit card	72.52	4.76							
	365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	2019-02-12	10:25:00	Ewallet	234.75	4.76							
	252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	2019-02-07	16:48:00	Ewallet	431.9	4.76							
	829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	2019-03-29	19:21:00	Cash	713.8	4.76							
	656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	2019-03-11	11:03:00	Credit card	482.51	4.76							
	765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6	21.783	457.443	2019-01-01	10:39:00	Credit card	435.66	4.76							

Find the total sales for each product line.

```
Select  
Product_line, sum(Quantity* Unit_price) as Total_Sales  
from walmart.data  
group by Product_line;
```

Result Grid			Filter Rows:	Export
	Product_line	Total_Sales		
	Health and beauty	46851.179999999998		
	Electronic accessories	51750.0299999999984		
	Home and lifestyle	51297.059999999998		
	Sports and travel	52497.930000000002		
	Food and beverages	53471.280000000006		
	Fashion accessories	51719.899999999997		



List all sales transactions where the payment method was 'Cash'.

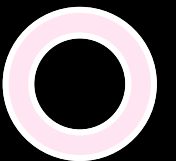
```
Select  
Product_line, sum(Quantity*Unit_price) as Total_Sales, Payment  
from walmart.data  
where Payment = 'Cash'  
group by Product_line;
```

Result Grid	Filter Rows:	Export:	Wrap Ce
Product_line	Total_Sales	Payment	
Electronic accessories	19742.839999999997	Cash	
Health and beauty	16370.579999999998	Cash	
Sports and travel	17975.06	Cash	
Fashion accessories	16775.039999999997	Cash	
Food and beverages	18296.069999999996	Cash	
Home and lifestyle	17703.81	Cash	

Calculate the total gross income generated in each city.

```
Select  
City, sum(gross_income) as Total_gross_income  
from walmart.data  
group by City ;
```

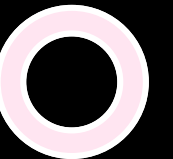
Result Grid			Filter Rows:
	City	Total_gross_income	
▶	Yangon	5057.1605000000002	
	Naypyitaw	5265.1765000000002	
	Mandalay	5057.0320000000003	



Find the average rating given by customers in each branch.

```
Select  
Branch, avg(Rating) as Avg_Rating  
from walmart.data  
group by Branch ;
```

Result Grid		Filter Rows:
	Branch	Avg_Rating
▶	A	7.027058823529413
	C	7.072865853658538
	B	6.8180722891566266



Determine the total quantity of each product line sold.

```
Select  
Product_line, sum(Quantity) as Total_quantity  
from walmart.data  
group by Product_line;
```

Result Grid   Filter Rows:

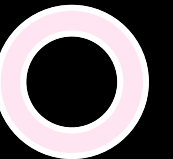
Product_line	Total_quantity
Health and beauty	854
Electronic accessories	971
Home and lifestyle	911
Sports and travel	920
Food and beverages	952
Fashion accessories	902



List the top 5 products by unit price.

```
Select  
Product_line, Unit_price  
from walmart.data  
Order by Unit_price desc limit 5;
```

Result Grid		Filter Rows:
Product_line	Unit_price	
Health and beauty	99.96	
Sports and travel	99.96	
Home and lifestyle	99.92	
Fashion accessories	99.89	
Health and beauty	99.83	



Find sales transactions with a gross income greater than 30.

```
Select  
Product_line, Total as sales, gross_income  
from walmart.data  
where gross_income > 30;
```

Product_line	sales	gross_income
Sports and travel	634.3785	30.2085
Home and lifestyle	772.38	36.78
Health and beauty	749.49	35.69
Sports and travel	737.7615	35.1315
Sports and travel	703.752	33.512
Food and beverages	829.08	39.48
Fashion accessories	867.615	41.315
Food and beverages	671.79	31.99
Electronic accessories	722.232	34.392
Health and beauty	752.64	35.84
Home and lifestyle	759.675	36.175
Sports and travel	827.085	39.385

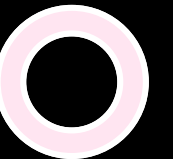
Retrieve sales transactions that occurred on weekends.

```
Select
Product_line, Total as sales , weekday(Date) as weekends
from walmart.data
where weekday(Date) in (5,6);
```

Result Grid |   Filter Rows:

	Product_line	sales	weekends
▶	Health and beauty	548.9715	5
	Home and lifestyle	340.5255	6
	Health and beauty	489.048	6
	Home and lifestyle	772.38	6
	Electronic accessories	107.142	5
	Electronic accessories	181.44	6
	Sports and travel	279.1845	5
	Fashion accessories	184.107	6
	Sports and travel	328.755	6
	Health and beauty	461.328	5

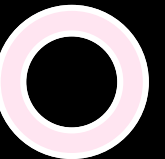
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Calculate the total sales and gross income for each month.

```
select
monthname(Date) as month, sum(Total) as Total_sales, sum(gross_income) as gross_income
from walmart.data
group by monthname(Date) ;
```

month	Total_sales	gross_income
January	116291.868000000005	5537.7079999999999
March	109455.507000000004	5212.1670000000006
February	97219.373999999997	4629.4940000000001



Find the number of sales transactions that occurred after 6 PM.

```
Select  
Invoice_ID, Product_line, Total, Payment, Time  
from walmart.data  
where hour(Time)= '18';
```

Invoice_ID	Product_line	Total	Payment	Time
699-14-3026	Electronic accessories	627.6165	Ewallet	18:30:00
351-62-0822	Fashion accessories	60.816	Ewallet	18:07:00
329-62-1586	Food and beverages	172.2105	Credit card	18:00:00
280-35-5823	Home and lifestyle	91.056	Ewallet	18:45:00
132-32-9879	Electronic accessories	394.632	Cash	18:00:00
382-03-4532	Health and beauty	19.2465	Cash	18:50:00
510-95-6347	Food and beverages	152.838	Ewallet	18:17:00
841-35-6630	Electronic accessories	478.233	Cash	18:21:00
756-01-7507	Health and beauty	106.995	Cash	18:56:00
480-63-2856	Food and beverages	161.7	Ewallet	18:37:00

List the sales transactions that have a higher total than the average total of all transactions.

```
Select  
avg(Total)  
from walmart.data;
```

- ```
Select
Invoice_ID,Product_line, Total
from walmart.data
where Total > 322.967
order by Product_line desc;
```

| avg(Total)          |
|---------------------|
| 322.966749000000005 |

| Result Grid  |                   |          |  |
|--------------|-------------------|----------|--|
| Filter Rows: |                   |          |  |
| Invoice_ID   | Product_line      | Total    |  |
| 105-31-1824  | Sports and travel | 510.972  |  |
| 420-18-8989  | Sports and travel | 432.768  |  |
| 741-73-3559  | Sports and travel | 353.1675 |  |
| 373-73-7910  | Sports and travel | 634.3785 |  |
| 815-04-6282  | Sports and travel | 341.0925 |  |
| 751-69-0068  | Sports and travel | 937.818  |  |
| 257-73-1380  | Sports and travel | 348.306  |  |
| 752-23-3760  | Sports and travel | 470.988  |  |
| 149-15-7606  | Sports and travel | 352.674  |  |
| 299-46-1805  | Sports and travel | 590.436  |  |

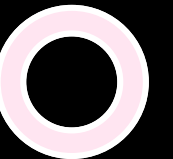


# Calculate the cumulative gross income for each branch by date

```
SELECT
Date, Branch, gross_income,
sum(gross_income)
OVER (ORDER BY Date) as Cumulative_gross_income
from walmart.data;
```

Result Grid | Filter Rows: | Export: | Wrap

| Date       | Branch | gross_income | Cumulative_gross_income |
|------------|--------|--------------|-------------------------|
| 2019-01-01 | A      | 21.783       | 225.961                 |
| 2019-01-01 | A      | 19.036       | 225.961                 |
| 2019-01-01 | B      | 22.413       | 225.961                 |
| 2019-01-01 | C      | 18.49        | 225.961                 |
| 2019-01-01 | C      | 6.322        | 225.961                 |
| 2019-01-01 | C      | 6.287        | 225.961                 |
| 2019-01-01 | A      | 29.583       | 225.961                 |
| 2019-01-01 | A      | 5.408        | 225.961                 |
| 2019-01-01 | A      | 37.11        | 225.961                 |
| 2019-01-01 | C      | 8.766        | 225.961                 |

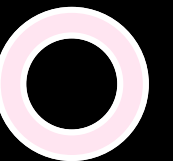


Find the total cogs for each customer type in each city.

```
Select
City, Customer_type, cogs
from walmart.data
order by Customer_type asc;
```

Result Grid | Filter Rows

|  | City      | Customer_type | cogs   |
|--|-----------|---------------|--------|
|  | Yangon    | Member        | 522.83 |
|  | Naypyitaw | Member        | 31.9   |
|  | Yangon    | Member        | 193.44 |
|  | Yangon    | Member        | 465.76 |
|  | Mandalay  | Member        | 145.5  |
|  | Mandalay  | Member        | 306.45 |
|  | Yangon    | Member        | 413.04 |
|  | Naypyitaw | Member        | 95.7   |
|  | Yannnn    | Member        | 72.52  |





**THANK YOU**

