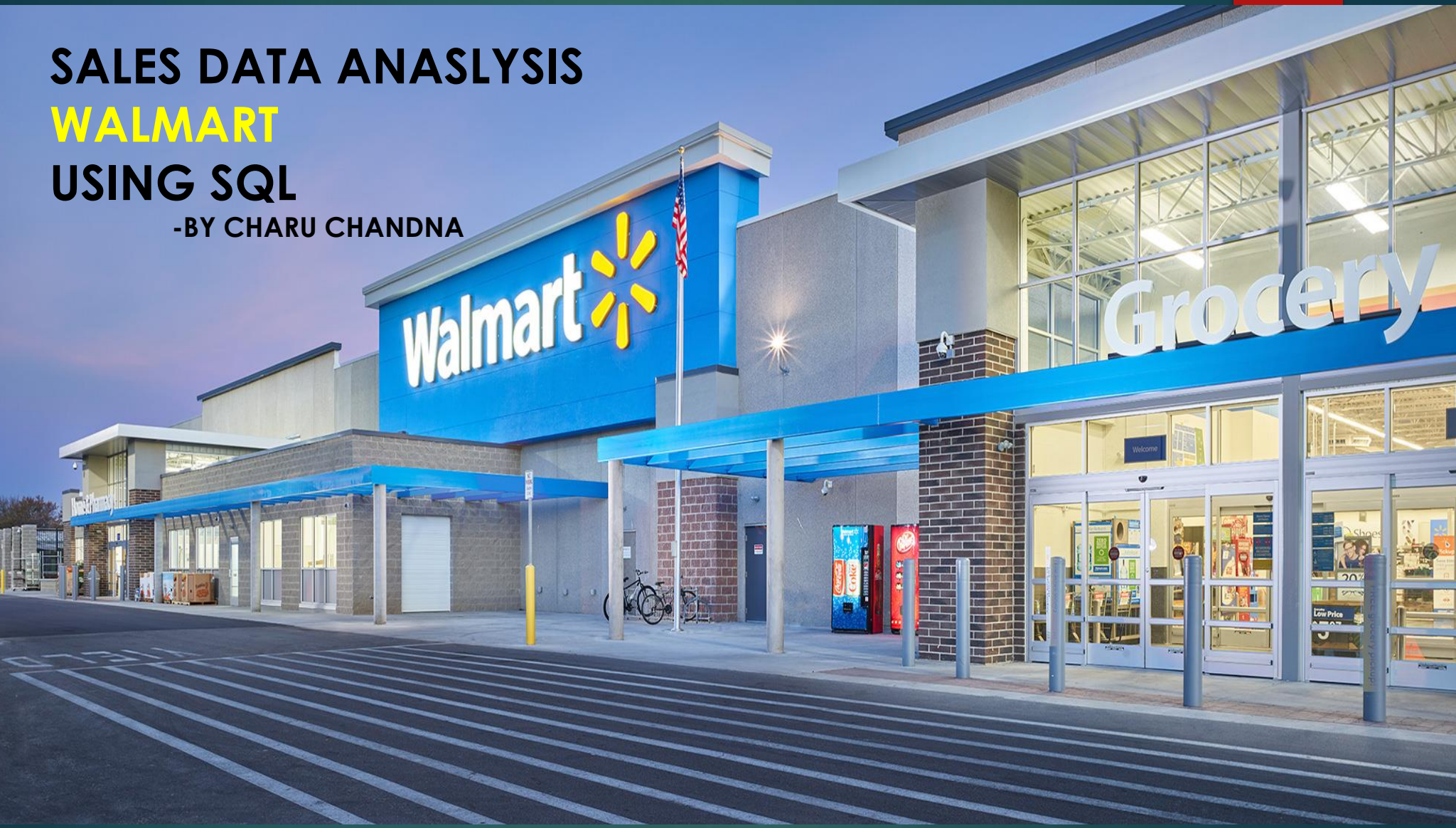
SALES DATA ANASLYSIS
WALMART
USING SQL

-BY CHARU CHANDNA



Introduction

- Walmart, one of the largest retail corporations in the world, operates an extensive network of stores and e-commerce platforms that generate significant sales data.
- Analyzing this data is crucial for understanding sales trends, customer preferences, and overall business performance.
- This analysis focuses on key sales metrics, such as total revenue, product line performance, and customer demographics.
- By leveraging this data, we can gain valuable insights into Walmart's operational efficiency, identify growth opportunities, and make data-driven decisions to enhance customer satisfaction and profitability.

Data Overview

```
1 • CREATE database Walmartdata ;
2 • use walmartdata ;
3
4 • select * from walmartdata ;
5
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	05-01-2019	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	08-03-2019	10:29:00	Cash	76.4	4.761904762	3.82	9.6
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	03-03-2019	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	27-01-2019	03-03-2019	Ewallet	465.76	4.761904762	23.288	8.4
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	25-03-2019	18:30:00	Ewallet	597.73	4.761904762	29.8865	4.1
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	25-02-2019	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	24-02-2019	11:38:00	Ewallet	735.6	4.761904762	36.78	8
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	10-01-2019	17:15:00	Credit card	72.52	4.761904762	3.626	7.2
692-92-5582	B	Mandalay	Member	Female	Food and beverages	54.84	3	8.226	172.746	20-02-2019	13:27:00	Credit card	164.52	4.761904762	8.226	5.9
351-62-0822	B	Mandalay	Member	Female	Fashion accessories	14.48	4	2.896	60.816	06-02-2019	18:07:00	Ewallet	57.92	4.761904762	2.896	4.5
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	09-03-2019	17:03:00	Cash	102.04	4.761904762	5.102	6.8
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	12-02-2019	10:25:00	Ewallet	234.75	4.761904762	11.7375	7.1
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	07-02-2019	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
299-46-1805	B	Mandalay	Member	Female	Sports and travel	93.72	6	28.116	590.436	15-01-2019	16:19:00	Cash	562.32	4.761904762	28.116	4.5
656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	11-03-2019	11:03:00	Credit card	482.51	4.761904762	24.1255	4.6
765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6	21.783	457.443	01-01-2019	10:39:00	Credit card	435.66	4.761904762	21.783	6.9

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

```
5
6     #1.  Retrieve all columns for sales made in a specific branch (e.g., Branch 'A').
7
8 •   select * from walmartdata
9     where branch = "A";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	05-01-2019	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	03-03-2019	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	27-01-2019	20:33:00	Ewallet	465.76	4.761904762	23.288	8.4
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	25-02-2019	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
665-32-9167	A	Yangon	Member	Female	Health and beauty	36.26	2	3.626	76.146	10-01-2019	17:15:00	Credit card	72.52	4.761904762	3.626	7.2
365-64-0515	A	Yangon	Normal	Female	Electronic accessories	46.95	5	11.7375	246.4875	12-02-2019	10:25:00	Ewallet	234.75	4.761904762	11.7375	7.1
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	07-02-2019	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	11-03-2019	11:03:00	Credit card	482.51	4.761904762	24.1255	4.6
765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6	21.783	457.443	01-01-2019	10:39:00	Credit card	435.66	4.761904762	21.783	6.9
329-62-1586	A	Yangon	Normal	Male	Food and beverages	54.67	3	8.2005	172.2105	21-01-2019	18:00:00	Credit card	164.01	4.761904762	8.2005	8.6
636-48-8204	A	Yangon	Normal	Male	Electronic accessories	34.56	5	8.64	181.44	17-02-2019	11:15:00	Ewallet	172.8	4.761904762	8.64	9.9
549-59-1358	A	Yangon	Member	Male	Sports and travel	88.63	3	13.2945	279.1845	02-03-2019	17:36:00	Ewallet	265.89	4.761904762	13.2945	6
227-03-5010	A	Yangon	Member	Female	Home and lifestyle	52.59	8	21.036	441.756	22-03-2019	19:20:00	Credit card	420.72	4.761904762	21.036	8.5

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Find the total sales for each product line.

```
10
11      #2. Find the total sales for each product line.
12
13      select product_line , round(sum(total),2) as total_sales from walmartdata
14      group by product_line ;
15
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

product_line	total_sales
Health and beauty	49193.74
Electronic accessories	54337.53
Home and lifestyle	53861.91
Sports and travel	55122.83
Food and beverages	56144.84
Fashion accessories	54305.9

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

```
15
16    #3. List all sales transactions where the payment method was 'Cash'.
17
18 •  select * from walmartdata
19    where payment = "cash";
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	08-03-2019	10:29:00	Cash	76.4	4.761904762	3.82	9.6
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	09-03-2019	17:03:00	Cash	102.04	4.761904762	5.102	6.8
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
299-46-1805	B	Mandalay	Member	Female	Sports and travel	93.72	6	28.116	590.436	15-01-2019	16:19:00	Cash	562.32	4.761904762	28.116	4.5
649-29-6775	B	Mandalay	Normal	Male	Fashion accessories	33.52	1	1.676	35.196	08-02-2019	15:31:00	Cash	33.52	4.761904762	1.676	6.7
145-94-9061	B	Mandalay	Normal	Female	Food and beverages	88.36	5	22.09	463.89	25-01-2019	19:48:00	Cash	441.8	4.761904762	22.09	9.6
848-62-7243	A	Yangon	Normal	Male	Health and beauty	24.89	9	11.2005	235.2105	15-03-2019	15:36:00	Cash	224.01	4.761904762	11.2005	7.4
149-71-6266	B	Mandalay	Member	Male	Sports and travel	78.07	9	35.1315	737.7615	28-01-2019	12:43:00	Cash	702.63	4.761904762	35.1315	4.5
640-49-2076	B	Mandalay	Normal	Male	Sports and travel	83.78	8	33.512	703.752	10-01-2019	14:49:00	Cash	670.24	4.761904762	33.512	5.1
777-82-7220	B	Mandalay	Member	Male	Home and lifestyle	30.12	8	12.048	253.008	03-03-2019	13:01:00	Cash	240.96	4.761904762	12.048	7.7
554-53-8700	C	Naypyitaw	Member	Male	Home and lifestyle	56.11	2	5.611	117.831	02-02-2019	10:11:00	Cash	112.22	4.761904762	5.611	6.3
354-25-5821	B	Mandalay	Member	Female	Sports and travel	69.12	6	20.736	435.456	08-02-2019	13:03:00	Cash	414.72	4.761904762	20.736	5.6
228-96-1411	C	Naypyitaw	Member	Female	Food and beverages	98.7	8	39.48	829.08	04-03-2019	20:39:00	Cash	789.6	4.761904762	39.48	7.6
617-15-4209	C	Naypyitaw	Member	Male	Health and beauty	15.37	2	1.537	32.277	16-03-2019	19:47:00	Cash	30.74	4.761904762	1.537	7.2

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Calculate the total gross income generated in each city.

```
20
21      # 4.  Calculate the total gross income generated in each city.
22
23  •   select city , round(sum(gross_income),2) as total_gross_income
24      from walmartdata
25      group by city ;
26
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

city	total_gross_income
Yangon	5057.16
Naypyitaw	5265.18
Mandalay	5057.03

Find the average rating given by customers in each branch.

```
26
27      # 5. Find the average rating given by customers in each branch.
28
29 •    select branch , round(avg(rating),2)
30       as avg_rating from walmartdata
31      group by branch ;
32
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

branch	avg_rating
A	7.03
C	7.07
B	6.82

Determine the total quantity of each product line sold

```
32
33      #6. Determine the total quantity of each product line sold.
34
35 •    select product_line , sum(quantity) as total_quantity
36      from walmartdata
37      group by product_line ;
38
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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.

```
39    # 7. List the top 5 products by unit price.
40
41    select product_line , unit_price from walmartdata
42    order by unit_price desc
43    limit 5 ;
44
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

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%.

```
45    # 8. Find sales transactions with a gross income greater than 30.
46
47 •  select * from walmartdata
48    where gross_income > 30 ;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	24-02-2019	11:38:00	Ewallet	735.6	4.761904762	36.78	8
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
149-71-6266	B	Mandalay	Member	Male	Sports and travel	78.07	9	35.1315	737.7615	28-01-2019	12:43:00	Cash	702.63	4.761904762	35.1315	4.5
640-49-2076	B	Mandalay	Normal	Male	Sports and travel	83.78	8	33.512	703.752	10-01-2019	14:49:00	Cash	670.24	4.761904762	33.512	5.1
228-96-1411	C	Naypyitaw	Member	Female	Food and beverages	98.7	8	39.48	829.08	04-03-2019	20:39:00	Cash	789.6	4.761904762	39.48	7.6
574-22-5561	C	Naypyitaw	Member	Female	Fashion accessories	82.63	10	41.315	867.615	19-03-2019	17:08:00	Ewallet	826.3	4.761904762	41.315	7.9
326-78-5178	C	Naypyitaw	Member	Male	Food and beverages	91.4	7	31.99	671.79	03-02-2019	10:19:00	Cash	639.8	4.761904762	31.99	9.5
399-46-5918	C	Naypyitaw	Normal	Female	Electronic accessories	85.98	8	34.392	722.232	28-02-2019	19:01:00	Cash	687.84	4.761904762	34.392	8.2
635-40-6220	A	Yangon	Normal	Male	Health and beauty	89.6	8	35.84	752.64	07-02-2019	11:28:00	Ewallet	716.8	4.761904762	35.84	6.6
817-48-8732	A	Yangon	Member	Female	Home and lifestyle	72.35	10	36.175	759.675	20-01-2019	15:55:00	Cash	723.5	4.761904762	36.175	5.4
232-11-3025	A	Yangon	Normal	Male	Sports and travel	78.77	10	39.385	827.085	24-01-2019	10:04:00	Cash	787.7	4.761904762	39.385	6.4
393-65-2792	C	Naypyitaw	Normal	Male	Food and beverages	89.48	10	44.74	939.54	06-01-2019	12:46:00	Credit c...	894.8	4.761904762	44.74	9.6
796-12-2025	C	Naypyitaw	Normal	Male	Fashion accessories	62.12	10	31.06	652.26	11-02-2019	16:19:00	Cash	621.2	4.761904762	31.06	5.9
287-21-9091	A	Yangon	Normal	Male	Home and lifestyle	74.67	9	33.6015	705.6315	22-01-2019	10:55:00	Ewallet	672.03	4.761904762	33.6015	9.4
829-49-1914	C	Naypyitaw	Member	Female	Food and beverages	78.31	10	39.155	822.255	05-03-2019	16:24:00	Ewallet	783.1	4.761904762	39.155	6.6

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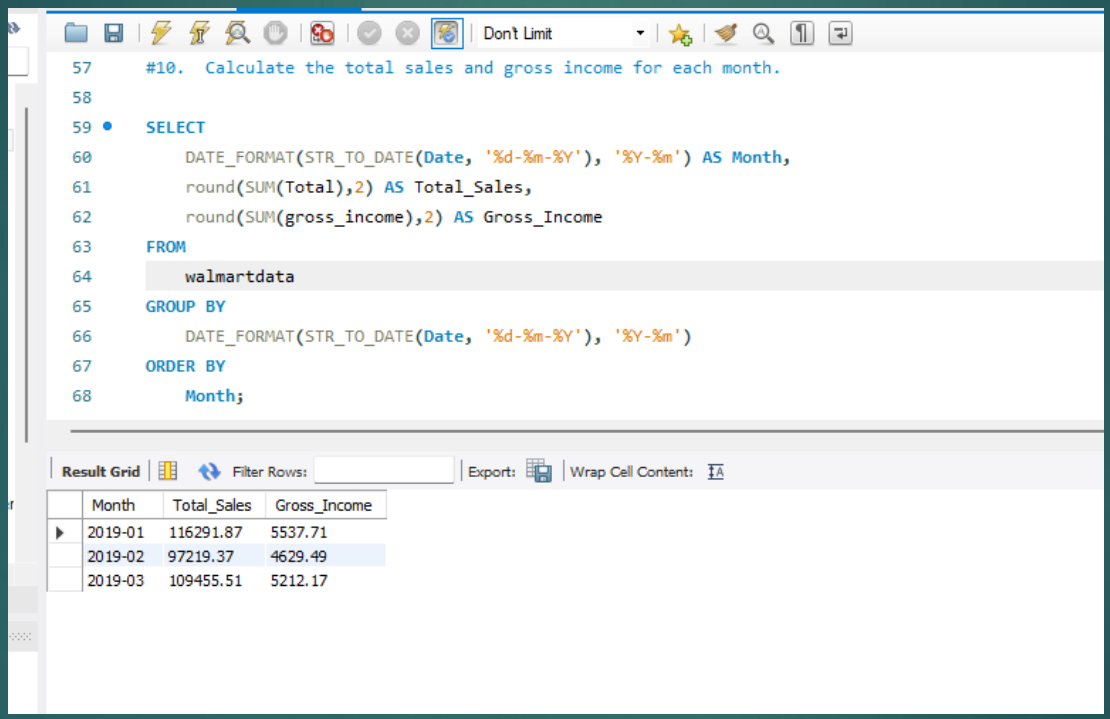
Retrieve sales transactions that occurred on weekends

```
49
50    # 9.  Retrieve sales transactions that occurred on weekends.
51
52 •  SELECT *
53    FROM walmartdata
54    WHERE DAYOFWEEK(STR_TO_DATE(Date, '%d-%m-%Y')) IN (1, 7);
55
56
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	05-01-2019	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	03-03-2019	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	27-01-2019	20:33:00	Ewallet	465.76	4.761904762	23.288	8.4
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	24-02-2019	11:38:00	Ewallet	735.6	4.761904762	36.78	8
529-56-3974	B	Mandalay	Member	Male	Electronic accessories	25.51	4	5.102	107.142	09-03-2019	17:03:00	Cash	102.04	4.761904762	5.102	6.8
636-48-8204	A	Yangon	Normal	Male	Electronic accessories	34.56	5	8.64	181.44	17-02-2019	11:15:00	Ewallet	172.8	4.761904762	8.64	9.9
549-59-1358	A	Yangon	Member	Male	Sports and travel	88.63	3	13.2945	279.1845	02-03-2019	17:36:00	Ewallet	265.89	4.761904762	13.2945	6
189-17-4241	A	Yangon	Normal	Female	Fashion accessories	87.67	2	8.767	184.107	10-03-2019	12:17:00	Credit card	175.34	4.761904762	8.767	7.7
129-29-8530	A	Yangon	Member	Male	Sports and travel	62.62	5	15.655	328.755	10-03-2019	19:15:00	Ewallet	313.1	4.761904762	15.655	7
333-73-7901	C	Naypyitaw	Normal	Female	Health and beauty	54.92	8	21.968	461.328	23-03-2019	13:24:00	Ewallet	439.36	4.761904762	21.968	7.6
777-82-7220	B	Mandalay	Member	Male	Home and lifestyle	30.12	8	12.048	253.008	03-03-2019	13:01:00	Cash	240.96	4.761904762	12.048	7.7
554-53-8700	C	Naypyitaw	Member	Male	Home and lifestyle	56.11	2	5.611	117.831	02-02-2019	10:11:00	Cash	112.22	4.761904762	5.611	6.3

Calculate the total sales and gross income for each month.

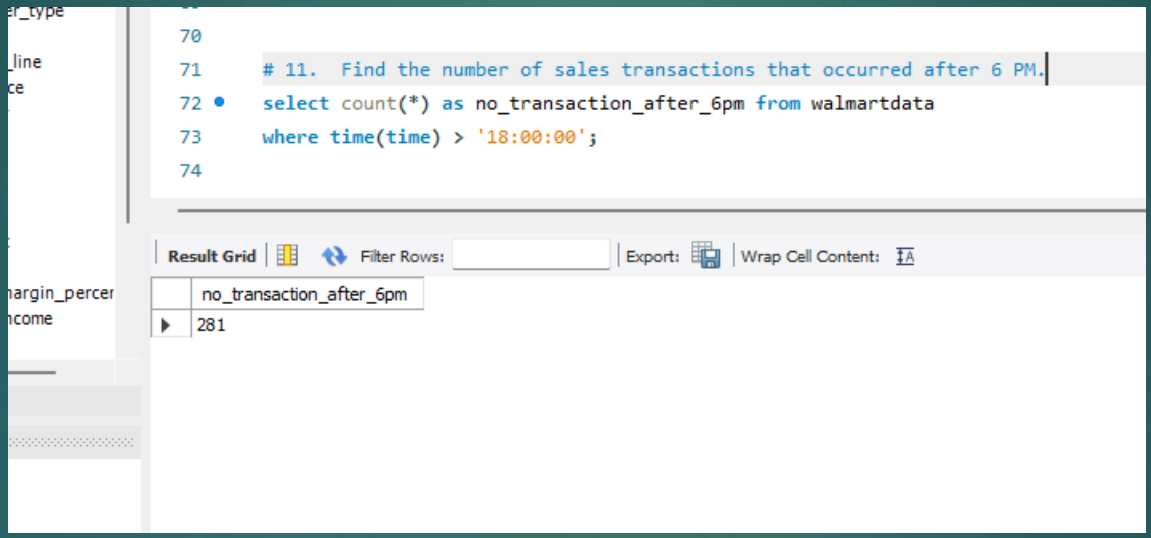


```
57  #10.  Calculate the total sales and gross income for each month.
58
59  SELECT
60      DATE_FORMAT(STR_TO_DATE(Date, '%d-%m-%Y'), '%Y-%m') AS Month,
61      round(SUM(Total),2) AS Total_Sales,
62      round(SUM(gross_income),2) AS Gross_Income
63  FROM
64      walmartdata
65  GROUP BY
66      DATE_FORMAT(STR_TO_DATE(Date, '%d-%m-%Y'), '%Y-%m')
67  ORDER BY
68      Month;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Month	Total_Sales	Gross_Income
2019-01	116291.87	5537.71
2019-02	97219.37	4629.49
2019-03	109455.51	5212.17

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



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

```
76
77 •  select * from walmartdata
78    where total> (select avg(total) from walmartdata);
79
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
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373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	25-03-2019	18:30:00	Ewallet	597.73	4.761904762	29.8865	4.1
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	25-02-2019	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	24-02-2019	11:38:00	Ewallet	735.6	4.761904762	36.78	8
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	07-02-2019	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
299-46-1805	B	Mandalay	Member	Female	Sports and travel	93.72	6	28.116	590.436	15-01-2019	16:19:00	Cash	562.32	4.761904762	28.116	4.5
656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	11-03-2019	11:03:00	Credit card	482.51	4.761904762	24.1255	4.6
765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6	21.783	457.443	01-01-2019	10:39:00	Credit card	435.66	4.761904762	21.783	6.9

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Calculate the cumulative gross income for each branch by date.

```
80    #13. Calculate the cumulative gross income for each branch by date.
81
82    select branch , date , gross_income ,
83    round(sum(gross_income) over (partition by branch
84    order by date),2)
85    as cumulative_gross_income
86    from walmartdata
87    order by branch , date ;
88
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

Invoice_ID	Branch	City	Customer_type	Gender	Product_line	Unit_price	Quantity	Tax_5%	Total	Date	Time	Payment	cogs	gross_margin_percentage	gross_income	Rating
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	05-01-2019	13:08:00	Ewallet	522.83	4.761904762	26.1415	9.1
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	03-03-2019	13:23:00	Credit card	324.31	4.761904762	16.2155	7.4
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	27-01-2019	20:33:00	Ewallet	465.76	4.761904762	23.288	8.4
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37:00	Ewallet	604.17	4.761904762	30.2085	5.3
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	25-03-2019	18:30:00	Ewallet	597.73	4.761904762	29.8865	4.1
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	25-02-2019	14:36:00	Ewallet	413.04	4.761904762	20.652	5.8
315-22-5665	C	Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	36.78	772.38	24-02-2019	11:38:00	Ewallet	735.6	4.761904762	36.78	8
252-56-2699	A	Yangon	Normal	Male	Food and beverages	43.19	10	21.595	453.495	07-02-2019	16:48:00	Ewallet	431.9	4.761904762	21.595	8.2
829-34-3910	A	Yangon	Normal	Female	Health and beauty	71.38	10	35.69	749.49	29-03-2019	19:21:00	Cash	713.8	4.761904762	35.69	5.7
299-46-1805	B	Mandalay	Member	Female	Sports and travel	93.72	6	28.116	590.436	15-01-2019	16:19:00	Cash	562.32	4.761904762	28.116	4.5
656-95-9349	A	Yangon	Member	Female	Health and beauty	68.93	7	24.1255	506.6355	11-03-2019	11:03:00	Credit card	482.51	4.761904762	24.1255	4.6
765-26-6951	A	Yangon	Normal	Male	Sports and travel	72.61	6	21.783	457.443	01-01-2019	10:39:00	Credit card	435.66	4.761904762	21.783	6.9

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Output

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

```
89      # 14 .Find the total cogs for each customer type in each city.
90
91  •   select city ,customer_type ,  round(sum(cogs),2) as total_cogs
92      from walmartdata
93      group by city ,customer_type
94      order by 1 ,2 ;
95
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

city	customer_type	total_cogs
Mandalay	Member	51147.32
Mandalay	Normal	49993.32
Naypyitaw	Member	54172.65
Naypyitaw	Normal	51130.88
Yangon	Member	51083.31
Yangon	Normal	50059.9

Conclusion

- The analysis of Walmart's sales data reveals important trends and patterns that are instrumental in shaping future business strategies.
- Key findings include the identification of top-performing product lines, the impact of different payment methods on sales, and the role of customer demographics in purchasing behavior.
- Additionally, the analysis highlights the significance of specific sales periods, such as weekends, in driving revenue.
- By leveraging these insights, Walmart can optimize inventory management, tailor marketing efforts, and enhance customer experience, ultimately leading to sustained growth and increased profitability.
- The continuous monitoring and analysis of sales data will be essential in maintaining Walmart's competitive edge in the retail industry.

Thanks