# Coffee Shop Sales

#### **KPI Requirements:**

#### 1. Total Sales Analysis

```
Calculate the sale for each month and mom difference and mom
diff pct.
select month(transaction_date) as month,
  round(sum(unit_price * transaction_qty)) as total_sales,
  Round (sum(unit_price * transaction_qty)- lag(sum(unit_price *
transaction_qty),1)
  over(order by month(transaction_date))) as MoM_diff,
  (sum(unit_price * transaction_qty)- lag(sum(unit_price *
transaction_qty),1)
  over(order by month(transaction_date))) / lag(sum(unit_price *
transaction_qty),1)
  over(order by month(transaction_date)) * 100 as MoM_pct
from
 coffee shop sales
where
 month(transaction_date) in (4,5)---for may month
group by
 month(transaction_date)
order by
```

#### month(transaction\_date)

Result Grid   III 💎 Filter Rows: Export: 📺   Wrap Cell Co			Export: Wrap Cell Conten	t: <u>‡A</u>	
	month	total_sales	MoM_diff	MoM_pct	
•	4	118941	NULL	HULL	
	5	156728	37787	31.769242384551315	

#### 2. Total Order Analysis

Calculate the total orders for each month and Mom diff and Mom pct from May.

```
SELECT
 month(transaction_date) AS month,
 COUNT(transaction_id) AS total_orders,
 COUNT(transaction_id) - LAG(COUNT(transaction_id), 1) OVER
(ORDER BY month(transaction_date)) AS MoM_diff,
 ROUND(
   (COUNT(transaction_id) - LAG(COUNT(transaction_id), 1) OVER
(ORDER BY month(transaction_date)))
   / LAG(COUNT(transaction_id), 1) OVER (ORDER BY
month(transaction_date)) * 100, 2
 ) AS MoM_pct
FROM
 coffee_shop_sales
WHERE
```

month(transaction\_date) IN (4, 5)

#### **GROUP BY**

month(transaction\_date)

#### ORDER BY

month(transaction\_date);

Re	sult Grid	♦ Filter Rows:		Export:	Wrap Cell Content:	<u>‡A</u>
	month	total_orders	MoM_diff	MoM_pct		
•	4	25335	NULL	NULL		
	5	33527	8192	32.33		

### 3. Total quantity sold

Calculate the quantity for each month, Mom diff and Mom pct. SELECT

```
month(transaction_date) AS month,
```

ROUND(SUM(transaction\_qty)) AS total\_qty,

SUM(transaction\_qty) - LAG(SUM(transaction\_qty), 1) OVER (ORDER BY month(transaction\_date)) AS MoM\_diff,

ROUND(

((SUM(transaction\_qty) - LAG(SUM(transaction\_qty), 1) OVER (ORDER BY month(transaction\_date)))

/ LAG(SUM(transaction\_qty), 1) OVER (ORDER BY month(transaction\_date))) \* 100, 2

) AS MoM\_pct

**FROM** 

coffee\_shop\_sales

**WHERE** 

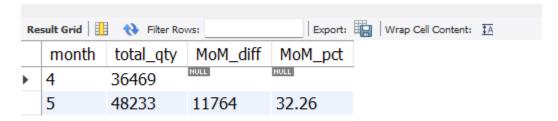
month(transaction\_date) IN (4, 5)

#### **GROUP BY**

month(transaction\_date)

#### **ORDER BY**

month(transaction\_date);



# 4. Sales analysis for weekdays and weekends.

Select

case when dayofweek(transaction\_date) in (1,7) then 'Weekend'

Else 'Weekdays'

end as Day\_type,

concat(round(sum(unit\_price \* transaction\_qty)/1000,1),'k') as
total\_sales

from coffee\_shop\_sales

where

month(transaction\_date) = 5

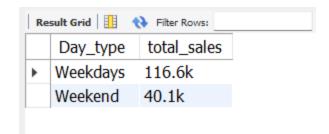
group by

case when dayofweek(transaction\_date) in (1,7) then

'Weekend'

Else 'Weekdays'

End



## 5. Total sales, quantity, orders in sales location

Select store\_location,

concat(round(Sum(unit\_price \* transaction\_qty)/1000,1),'k') as
total\_sales,

concat(round(sum(transaction\_qty)/1000,1),'k') as total\_qty,
 concat(round(count(transaction\_id)/1000,1), 'k') as total\_orders
from coffee\_shop\_sales
where month(transaction\_date) = 5

group by

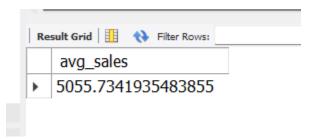
store\_location;



# 6. Daily sales analysis with average line

```
select avg(total_sales) as avg_sales
from
(
select
```

(sum(unit\_price \* transaction\_qty)) as total\_sales from coffee\_shop\_sales where month(transaction\_date) = 5 group by transaction\_date



#### 7. Daily sales for a month

select day(transaction\_date) as date\_no,

round(sum(unit\_price \* transaction\_qty),2) as total\_sales

from coffee\_shop\_sales

where month(transaction\_date) = 5

group by transaction\_date

order by transaction\_date

Re				
	day_no	total_sales		
•	1	4731.45		
	2	4625.5		
	3	4714.6		
	4	4589.7		
	5	4701		
	6	4205.15		
	7	4542.7		
	8	5604.21		
	9	5100.97		
	10	5256.33		
	11	4850.06		
	12	4681.13		
Result 18 ×				

# 8. Daily sales which is above average and below average

```
With cte as
(
SELECT DAY(transaction_date) AS date_no,
    ROUND(SUM(unit_price * transaction_qty), 2) AS total_sales,
    AVG(SUM(unit_price * transaction_qty)) OVER () AS avg_sales
FROM coffee_shop_sales
WHERE MONTH(transaction_date) = 5
GROUP BY DAY(transaction_date)
)
select date_no, total_sales,
    case when total_sales > avg_sales then 'Above average' else 'Below average' end as Average_line
```

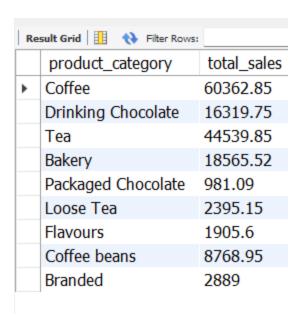
## from cte

# ORDER BY date\_no;

Filter Rows:	Export:
total_sales	Average_line
4731.45	Below average
4625.5	Below average
4714.6	Below average
4589.7	Below average
4701	Below average
4205.15	Below average
4542.7	Below average
5604.21	Above average
5100.97	Above average
5256.33	Above average
4850.06	Below average
4681.13	Below average
	total_sales 4731.45 4625.5 4714.6 4589.7 4701 4205.15 4542.7 5604.21 5100.97 5256.33 4850.06

# 9. Sales analysis by product category

```
select product_category,
  round(sum(unit_price * transaction_qty),2) as total_sales
from coffee_shop_sales
where month(transaction_date) =5
group by product_category
```



#### 10.Top 10 products by sales

group by product\_type

```
select product_type,
  round(sum(unit_price * transaction_qty),2) as total_sales
from coffee_shop_sales
where month(transaction_date) =5
```

order by round(sum(unit\_price \* transaction\_qty),2) desc limit 10;



## 11. Sales Analysis by sales for hours

order by hour(transaction\_time)

select hour(transaction\_time) as hours,
round(sum(unit\_price \* transaction\_qty),2) as total\_sales
from coffee\_shop\_sales
where month(transaction\_date) =5
group by hour(transaction\_time)

esult Grid 📗  Filter Rows				
	hours	total_sales		
	6	4912.93		
	7	14350.68		
	8	18822.31		
	9	19145.27		
	10	19639.13		
	11	10312.16		
	12	8869.79		
	13	9379.21		
	14	9057.66		
	15	9525.15		
	16	9154.31		
	17	8966.85		

#### 12. Sales in each day name

#### select

case when dayofweek(transaction\_date) = 1 then 'Sunday'
case when dayofweek(transaction\_date) = 2 then 'Monday'
case when dayofweek(transaction\_date) = 3 then 'Tuesday'
case when dayofweek(transaction\_date) = 4 then 'Wednesday'
case when dayofweek(transaction\_date) = 5 then 'Thursday'
case when dayofweek(transaction\_date) = 6 then 'Friday'
case when dayofweek(transaction\_date) = 7 then 'Saturday'
end as Days,
sum(unit\_price \* transaction\_qty) as total\_sales
from coffee\_shop\_sales
where month(transaction\_date)

group by case when dayofweek(transaction\_date) = 1 then 'Sunday'
case when dayofweek(transaction\_date) = 2 then 'Monday'
case when dayofweek(transaction\_date) = 3 then 'Tuesday'
case when dayofweek(transaction\_date) = 4 then 'Wednesday'
case when dayofweek(transaction\_date) = 5 then 'Thursday'
case when dayofweek(transaction\_date) = 6 then 'Friday'
case when dayofweek(transaction\_date) = 7 then 'Saturday'
end

sult Grid			
Days	total_sales		
Monday	25221.3		
Tuesday	25346.99		
Wednesday	25464.51		
Thursday	20254.08		
Friday	20340.96		
Saturday	20795.11		
Sunday	19304.81		

#### **Functionalities used in this:**

- STR\_TO\_DATE
- SUM
- ROUND
- AVG
- LAG
- MONTH()
- DAYOFWEEK()
- DAY()

- CONCAT()
- CASE WHEN
- GROUP BY
- ORDER BY
- MIN/MAX
- SUBQUERY, CTE
- WHERE