MYSQL QUERIES

**COFFEE SHOP SALES PROJECT**

**1.CONVERT DATE (Transaction\_Date) COLUMN TO PROPER DATE FORMAT**

UPDATE Coffee\_Shop\_Sales

SET Transaction\_Date = STR\_TO\_DATE (Transaction\_Date, '%D-%M-%Y');

**2.ALTER DATE (Transaction\_Date) COLUMN TO DATE DATA TYPE**

ALTER TABLE Coffee\_Shop\_Sales

MODIFY COLUMN Transaction\_Date DATE;

**3. CONVERT TIME (Transaction\_Time) COLUMN TO PROPER DATE FORMAT**

UPDATE Coffee\_Shop\_Sales

SET Transaction\_Time = STR\_TO\_DATE (Transaction\_Time, '%H:%I:%S');

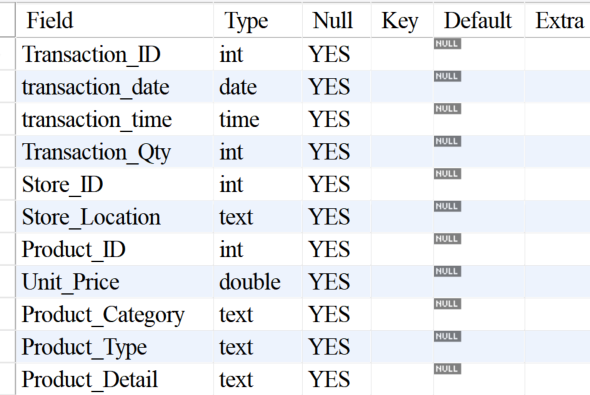
**4. ALTER TIME (Transaction\_Time) COLUMN TO DATE DATA TYPE**

ALTER TABLE Coffee\_Shop\_Sales

MODIFY COLUMN Transaction\_Time TIME;

**5. DATA TYPES OF DIFFERENT COLUMNS**

DESCRIBE Coffee\_Shop\_Sales;



**6. CHANGE COLUMN NAME `Ï»¿Transaction\_Id` To Transaction\_Id**

ALTER TABLE Coffee\_Shop\_Sales

CHANGE COLUMN `Ï»¿Transaction\_Id` Transaction\_Id INT;

**7. Total Sales**

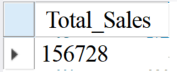
SELECT ROUND(SUM(Unit\_Price \* Transaction\_Qty)) AS Total\_Sales

FROM

Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 5; (5 Refers To May Month).



**8.TOTAL SALES KPI - MOM DIFFERENCE AND MOM GROWTH**

SELECT

MONTH(Transaction\_Date) AS Month,

ROUND(SUM(Unit\_Price \* Transaction\_Qty)) AS Total\_Sales,

(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\_Increase\_Percentage

FROM

Coffee\_Shop\_Sales

WHERE

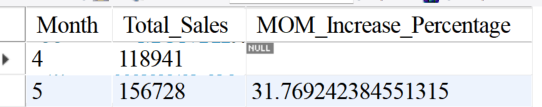
MONTH(Transaction\_Date) IN (4, 5) -- For Months Of April And May

GROUP BY

MONTH(Transaction\_Date)

ORDER BY

MONTH(Transaction\_Date);



**9. Total Orders**

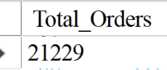
SELECT COUNT(Transaction\_ID) AS Total\_Orders

FROM

Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 3;



**10.TOTAL ORDERS KPI - MOM DIFFERENCE AND MOM GROWTH**

Select

Month(Transaction\_Date)As Month,

Round(Count(Transaction\_Id))As Total\_Orders,

(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 As MOM\_Increase\_Percentage

From

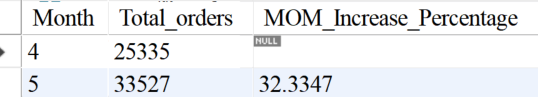
Coffee\_Shop\_Sales

Where

Month(Transaction\_Date) In (4, 5) -- 4-April Month(Previous Month), 5-May Month Month(Current Month)

Group By

Month(Transaction\_Date);



**11. Total Quantity Sold.**

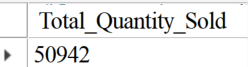
SELECT SUM(Transaction\_Qty)As Total\_Quantity\_Sold

FROM

Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 6;



**12. TOTAL QUANTITY SOLD KPI - MOM DIFFERENCE AND MOM GROWTH**

Select

Month(Transaction\_Date)As Month,

Sum(Transaction\_Qty) As Total\_Quantity\_Sold,

(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 As MOM\_Increase\_Percentage

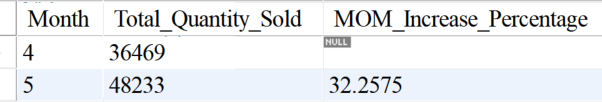
From Coffee\_Shop\_Sales

Where

Month(Transaction\_Date) In (4,5) -- 4-April Month(Previous Month), 5-May Month Month(Current Month)

Group By Month(Transaction\_Date)

Order By Month(Transaction\_Date);



**13. CALENDAR TABLE – DAILY SALES, QUANTITY And TOTAL ORDERS**

SELECT

Concat(Round(SUM(Unit\_Price \* Transaction\_Qty)/1000,1),'K') AS Total\_Sales,

Concat(Round(Count(Transaction\_Id)/1000,1),'K')As Total\_Orders,

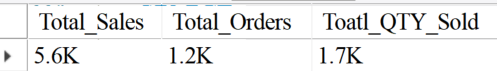
Concat(Round(Sum(Transaction\_Qty)/1000,1),'K')As Toatl\_QTY\_Sold

FROM

Coffee\_Shop\_Sales

Where

Transaction\_Date='2023-05-18';



**14. SALES TREND OVER PERIOD (SALES TREND OVER PERIOD)**

SELECT

CONCAT(ROUND(AVG(Total\_Sales) / 1000, 1), 'K') AS Avg\_Sales

FROM

(

SELECT

SUM(Unit\_Price \* Transaction\_Qty) AS Total\_Sales

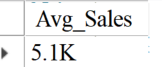
FROM

Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 5

GROUP BY Transaction\_Date) AS Inner\_Query;



**15. DAILY SALES FOR MONTH SELECTED**

SELECT

DAY(Transaction\_Date) AS Day\_Of\_Month,

ROUND(SUM(Unit\_Price \* Transaction\_Qty),1) AS Total\_Sales

FROM

Coffee\_Shop\_Sales

WHERE

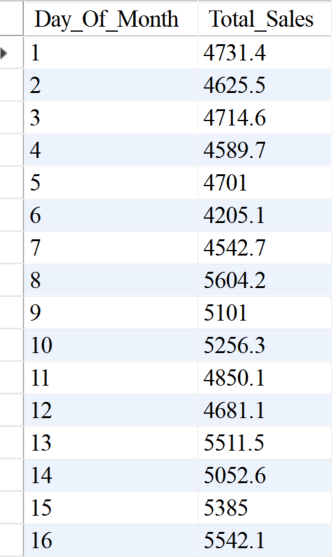
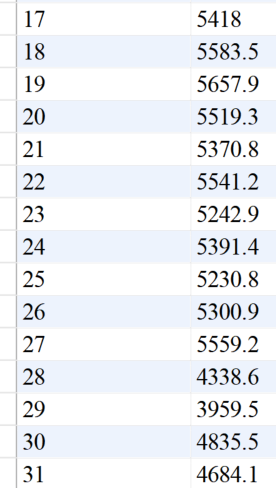
MONTH(Transaction\_Date) = 5 -- Filter For May

GROUP BY

DAY(Transaction\_Date)

ORDER BY

DAY(Transaction\_Date);

**16. COMPARING DAILY SALES WITH AVERAGE SALES – IF GREATER THAN “ABOVE AVERAGE” And LESSER THAN “BELOW AVERAGE”**

SELECT

Day\_Of\_Month,

CASE

WHEN Total\_Sales > Avg\_Sales THEN 'Above Average'

WHEN Total\_Sales < Avg\_Sales THEN 'Below Average'

ELSE 'Average'

END AS Sales\_Status,

Total\_Sales

FROM (

SELECT

DAY(Transaction\_Date) AS Day\_Of\_Month,

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 -- Filter For May

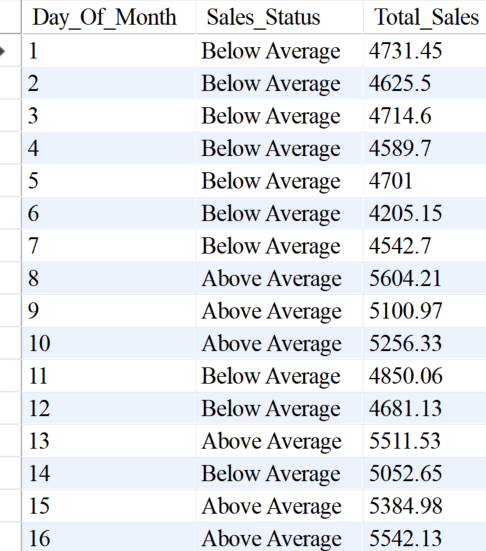
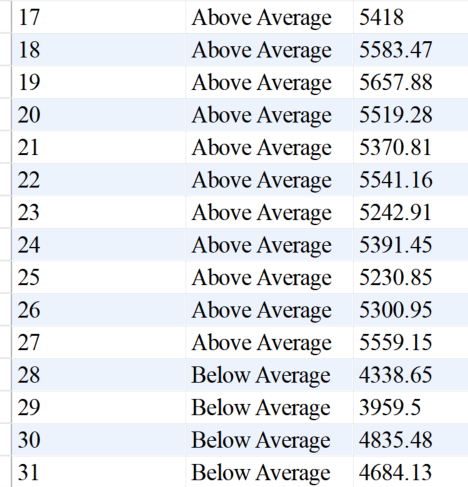
GROUP BY

DAY(Transaction\_Date)

) AS Sales\_Data

ORDER BY

Day\_Of\_Month;

**17. Sales Analysis For Weekends And Weekdays**

SELECT

CASE

WHEN DAYOFWEEK(Transaction\_Date) IN (1 , 7) THEN 'Weekends'

ELSE 'Weekdays'

END AS Day\_Type,

CONCAT(ROUND(SUM(Unit\_Price \* Transaction\_Qty) / 1000,1), 'K') AS Total\_Sales

FROM

Coffee\_Shop\_Sales

WHERE

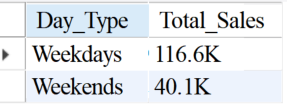
MONTH(Transaction\_Date) = 5

GROUP BY CASE

WHEN DAYOFWEEK(Transaction\_Date) IN (1 , 7) THEN 'Weekends'

ELSE 'Weekdays'

END



**18. Sales Analysis By Store Location.**

SELECT

Store\_Location,

CONCAT(ROUND(SUM(Unit\_Price \* Transaction\_Qty) / 1000,1),'K') AS Total\_Sales

FROM

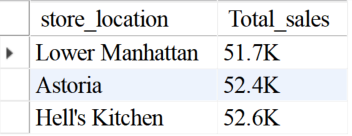
Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 5

GROUP BY Store\_Location

ORDER BY Total\_Sales



**19. Sales Analysis By Product Category.**

SELECT

Product\_Category,

Round(SUM(Unit\_Price \* Transaction\_Qty),1) AS Total\_Sales

FROM

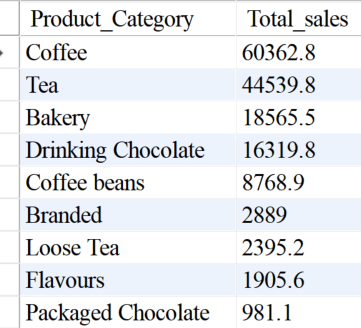
Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 5

GROUP BY Product\_Category

Order By Total\_Sales Desc;



**20.Top 10 Products By Sales.**

SELECT

Product\_Type,

Round(SUM(Unit\_Price \* Transaction\_Qty),1) AS Total\_Sales

FROM

Coffee\_Shop\_Sales

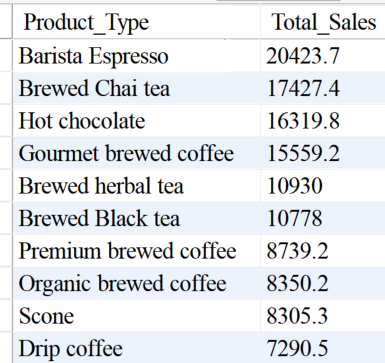
WHERE

MONTH(Transaction\_Date) = 5

GROUP BY Product\_Type

ORDER BY Total\_Sales DESC

LIMIT 10;



**21. Sales Analysis By Days And Hours**

SELECT

Round(SUM(Unit\_Price \* Transaction\_Qty)) AS Total\_Sales,

SUM(Transaction\_Qty) AS Total\_QTY\_Sold,

COUNT(\*) AS Total\_Orders

FROM

Coffee\_Shop\_Sales

WHERE

MONTH(Transaction\_Date) = 5

AND DAYOFWEEK(Transaction\_Date) = 3

AND HOUR(Transaction\_Time) = 8; -- Hour No 8



**22. TO GET SALES FROM MONDAY TO SUNDAY FOR MONTH OF MAY**

Select

Case

When Dayofweek(Transaction\_Date) = 2 Then 'Monday'

When Dayofweek(Transaction\_Date) = 3 Then 'Tuesday'

When Dayofweek(Transaction\_Date) = 4 Then 'Wednesday'

When Dayofweek(Transaction\_Date) = 5 Then 'Thursday'

When Dayofweek(Transaction\_Date) = 6 Then 'Fridayday'

When Dayofweek(Transaction\_Date) = 7 Then 'Saturday'

When Dayofweek(Transaction\_Date) = 1 Then 'Sunday'

End As Day\_Of\_Week,

Round(Sum(Unit\_Price\*Transaction\_Qty))As Total\_Sales

From

Coffee\_Shop\_Sales

Where

Month(Transaction\_Date)=5

Group By

Case

When Dayofweek(Transaction\_Date) = 2 Then 'Monday'

When Dayofweek(Transaction\_Date) = 3 Then 'Tuesday'

When Dayofweek(Transaction\_Date) = 4 Then 'Wednesday'

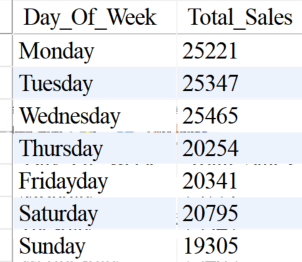
When Dayofweek(Transaction\_Date) = 5 Then 'Thursday'

When Dayofweek(Transaction\_Date) = 6 Then 'Fridayday'

When Dayofweek(Transaction\_Date) = 7 Then 'Saturday'

When Dayofweek(Transaction\_Date) = 1 Then 'Sunday'

End;



**23.TO GET SALES FOR ALL HOURS FOR MONTH OF MAY**

Select

Hour(Transaction\_Time)As Hours,

Round(Sum(Unit\_Price\*Transaction\_Qty))As Total\_Sales

From

Coffee\_Shop\_Sales

Where

Month(Transaction\_Date)=5

Group By

Hours

Order By

Hours;

