Queries

1. KPI’s Requierments :
2. Total Sales Analysis:

* Total sales for each respective month

SELECT ROUND(SUM(transaction\_qty \* unit\_price)) as Monthly\_Sales

FROM coffee\_shop\_sales

WHERE month(transaction\_date)=3

* Month-on-Month increase or decrease in sales.

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)

GROUP BY

MONTH(transaction\_date)

ORDER BY

MONTH(transaction\_date);

1. Total Orders Analysis:

* Total number of orders for each respective month:

SELECT COUNT(transaction\_id) AS total\_number\_of\_orders

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)=3;

* Month-on-month increase or decrease in sales

SELECT

MONTH(transaction\_date) as `month`,

SUM(transaction\_qty) AS total\_number\_of\_orders,

(SUM(transaction\_qty) - LAG(SUM(transaction\_qty),1) -- MONTH number\_of\_orders DIFFERENCE

OVER (ORDER BY MONTH(transaction\_date)))/LAG (SUM(transaction\_qty),1) -- Division by Previous MONTH sales

OVER (ORDER BY MONTH(transaction\_date)) \* 100 AS mom\_increase\_percentage -- PERCENTAGE

FROM

coffee\_shop\_sales

WHERE

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

GROUP BY

MONTH(transaction\_date)

ORDER BY

MONTH(transaction\_date);

1. Total Quantity Sold Analysis:

* Total number of Quantity Sold for each respective month:

SELECT SUM(transaction\_qty) AS total\_number\_of\_orders

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)=3;

* Month-on-month increase in quanity sold analysis

SELECT

MONTH(transaction\_date) as `month`,

SUM(transaction\_qty) AS total\_number\_of\_orders,

(SUM(transaction\_qty) - LAG(SUM(transaction\_qty),1) -- MONTH number\_of\_quantity\_sold DIFFERENCE

OVER (ORDER BY MONTH(transaction\_date)))/LAG (SUM(transaction\_qty),1) -- Division by Previous MONTH sales

OVER (ORDER BY MONTH(transaction\_date)) \* 100 AS mom\_increase\_percentage -- PERCENTAGE

FROM

coffee\_shop\_sales

WHERE

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

GROUP BY

MONTH(transaction\_date)

ORDER BY

MONTH(transaction\_date);

1. Charts Requierments :
2. Detailed Metrics (Sales, Orders , Quantity) of a specific day

SELECT

CONCAT(ROUND(SUM(unit\_price \* transaction\_qty)/1000,1),'K') AS Total\_sales,

CONCAT(ROUND(SUM(transaction\_qty)/1000,1),'K') AS Total\_Qty\_Sold,

CONCAT(ROUND(COUNT(transaction\_id)/1000,1),'K') AS Total\_Orders

FROM coffee\_shop\_sales

WHERE transaction\_date= '2023-05-18';

1. Sales Analysis by Weekdays and Weekends:

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

1. 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 DESC;