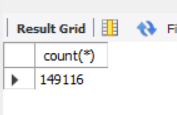
**DATA ANALYST**

**COFFEE SHOP SALES PROJECT**

**USING MYSQL**

**COUNT OF DATABASE**

SELECT COUNT (\*) FROM coffee\_shop\_sales;

****

**CHANGE COLUMN NAME `ï»¿transaction\_id` to transaction\_id**

ALTER TABLE coffee\_shop\_sales

CHANGE COLUMN ï»¿transaction\_id transaction\_id INT PRIMARY KEY;

**CONVERT COLUMN TO DATE DATA TYPE**

ALTER TABLE coffee\_shop\_sales

MODIFY COLUMN transaction\_date DATE;

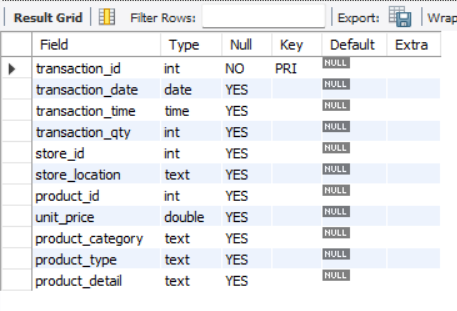
**CONVERT COLUMN TO TIME DATA TYPE**

ALTER TABLE coffee\_shop\_sales

MODIFY COLUMN transaction\_time TIME;

**DATA TYPES OF DIFFERENT COLUMNS**

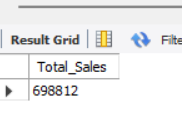
DESCRIBE coffee\_shop\_sales;



**TOTAL SALES**

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

FROM coffee\_shop\_sales;



**TOTAL SALES - MONTH TO MONTH DIFFERENCE AND MONTH TO MONTH GROWTH**

SELECT month(transaction\_date) as month,

ROUND(SUM(unit\_price\*transaction\_qty)) as Total\_Sales,

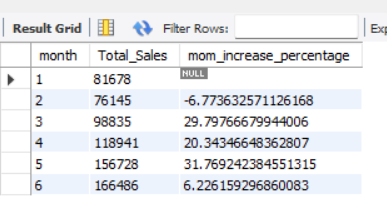
(SUM(unit\_price \* transaction\_qty) - LAG(SUM(unit\_price \* transaction\_qty))

OVER (ORDER BY MONTH(transaction\_date))) / LAG(SUM(unit\_price \* transaction\_qty))

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

FROM coffee\_shop\_sales

GROUP BY MONTH(transaction\_date);

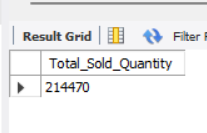


Note : Month-[1-Jan , 2-Feb , 3-Mar , 4-April, 5-May, 6-June]

**TOTAL SOLD QUANTITY**

SELECT COUNT(transaction\_qty) as Total\_Sold\_Quantity

FROM coffee\_shop\_sales;



**TOTAL SOLD QUANTITY – MONTH TO MONTH DIFFERENCE AND MONTH TO MONTH GROWTH**

SELECT

MONTH(transaction\_date),

SUM(transaction\_qty) as Total\_Sold\_Quantity,

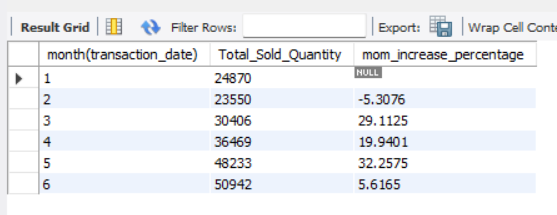
(SUM(transaction\_qty) - LAG(sum(transaction\_qty))

OVER (ORDER BY MONTH(transaction\_date))) / LAG(sum(transaction\_qty))

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

FROM coffee\_shop\_sales

GROUP BY MONTH(transaction\_date);

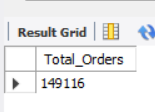


Note: Month-[1-Jan , 2-Feb , 3-Mar , 4-April, 5-May, 6-June]

**TOTAL ORDERS**

SELECT COUNT(transaction\_id) as Total\_Orders

FROM coffee\_shop\_sales ;



**TOTAL SOLD QUANTITY – MONTH TO MONTH DIFFERENCE AND MONTH TO MONTH GROWTH**

SELECT    MONTH(transaction\_date) AS month,

COUNT(transaction\_id) AS Total\_Orders,

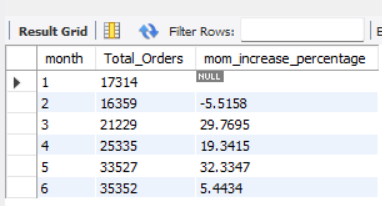
(COUNT(transaction\_id) - LAG(COUNT(transaction\_id))

OVER (ORDER BY MONTH(transaction\_date))) / lag(COUNT(transaction\_qty))

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

FROM coffee\_shop\_sales

GROUP BY MONTH(transaction\_date);



Note : Month-[1-Jan , 2-Feb , 3-Mar , 4-April, 5-May, 6-June]

**DAILY SALES FOR MONTH SELECTED**

SELECT DAY(transaction\_date) AS days,

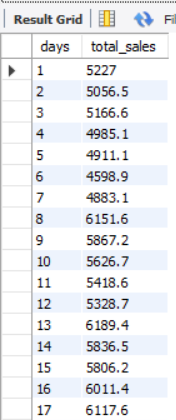
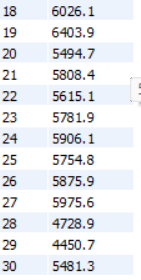
ROUND(SUM(unit\_price \* transaction\_qty),1) AS total\_sales

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date) = 6 -- Filter for June

GROUP BY DAY(transaction\_date)

ORDER BY DAY(transaction\_date);

**SALES BY WEEKDAY / WEEKEND:**

SELECT CASE

WHEN DAYOFWEEK(transaction\_date) IN (1, 7) THEN 'Weekends'

ELSE 'Weekdays'

END AS day\_type,

ROUND(SUM(unit\_price \* transaction\_qty)) AS total\_sales

FROM coffee\_shop\_sales

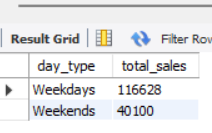
WHERE MONTH(transaction\_date) = 5 -- Filter for May

GROUP BY CASE

WHEN DAYOFWEEK(transaction\_date) IN (1, 7) THEN 'Weekends'

ELSE 'Weekdays'

END;



**SALES BY STORE LOCATION**

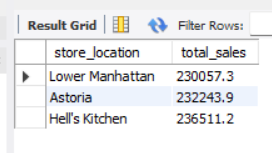
SELECT store\_location,

ROUND(SUM(unit\_price \* transaction\_qty),1) AS total\_sales

FROM coffee\_shop\_sales

GROUP BY store\_location

ORDER BY ROUND(SUM(unit\_price \* transaction\_qty),1);



**SALES BY STORE LOCATION BY MONTH**

SELECT store\_location,

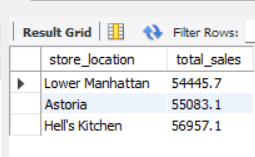
ROUND(SUM(unit\_price \* transaction\_qty),1) AS total\_sales

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)=6 -- Filter for june

GROUP BY store\_location

ORDER BY ROUND(SUM(unit\_price \* transaction\_qty),1);



**SALES BY PRODUCT CATEGORY**

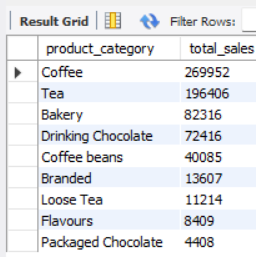
SELECT product\_category,

ROUND(SUM(unit\_price\*transaction\_qty)) AS total\_sales

FROM coffee\_shop\_sales

GROUP BY product\_category

ORDER BY ROUND(SUM(unit\_price\*transaction\_qty)) desc;



**SALES BY PRODUCT CATEGORY BY MONTH**

SELECT product\_category,

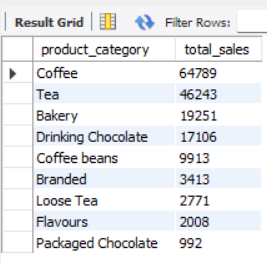
ROUND(SUM(unit\_price\*transaction\_qty)) as total\_sales

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date) = 6

GROUP BY product\_category

ORDER BY ROUND(SUM(unit\_price\*transaction\_qty)) desc;



**SALES BY TOP 5 PRODUCTS**

SELECT product\_type,

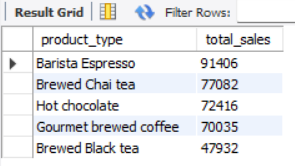
ROUND(SUM(unit\_price\*transaction\_qty)) AS total\_sales

FROM coffee\_shop\_sales

GROUP BY product\_type

ORDER BY ROUND(SUM(unit\_price\*transaction\_qty)) desc

LIMIT 5;



**SALES BY DAY | HOUR**

SELECT ROUND(SUM(unit\_price \* transaction\_qty)) AS Total\_Sales,

SUM(transaction\_qty) AS Total\_Quantity,

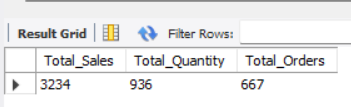
COUNT(transaction\_id) AS Total\_Orders

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)= 5  --Filter for May (month number 5)

AND DAYOFWEEK(transaction\_date) = 3  -- Filter for Tuesday (1 is Sunday, 2 is Monday, ...7 Saturday)

AND HOUR(transaction\_time)= 9; --Filter for hour number 8



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

SELECT

CASE

WHEN DAYOFWEEK(transaction\_date) =1 THEN 'Sunday'

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 'Friday'

ELSE 'Saturday'

END AS Day\_of\_Week,

ROUND(SUM(unit\_price \* transaction\_qty)) AS Total\_Sales

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)= 5 --Filter for May (month number 5)

GROUP BY

CASE

WHEN DAYOFWEEK(transaction\_date) =1 THEN 'Sunday'

WHEN DAYOFWEEK(transaction\_date) =2 THEN 'Monday'

WHEN DAYOFWEEK(transaction\_date) =3 THEN 'Tuesday'

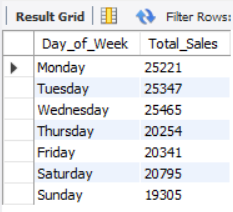
WHEN DAYOFWEEK(transaction\_date) =4 THEN 'Wednesday'

WHEN DAYOFWEEK(transaction\_date) =5 THEN 'Thursday'

WHEN DAYOFWEEK(transaction\_date) =6 THEN 'Friday'

ELSE 'Saturday'

END;



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

SELECT HOUR(transaction\_time) AS Hour\_days,

ROUND(SUM(unit\_price \* transaction\_qty)) AS Total\_Sales

FROM coffee\_shop\_sales

WHERE MONTH(transaction\_date)=5 --Filter for May (month number 5)

GROUP BY HOUR(transaction\_time)

ORDER BY HOUR(transaction\_time);

