Nguyễn Văn Thống

Clear Datas

set sql\_safe\_updates = 0

ALTER TABLE coffee\_shop\_sales

MODIFY COLUMN transaction\_date DATE;

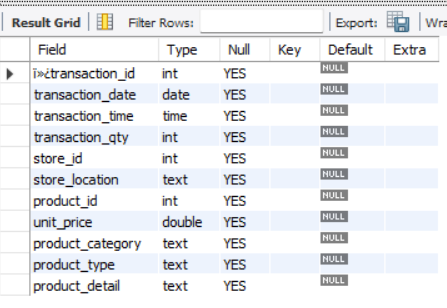
UPDATE coffee\_shop\_sales

SET transaction\_date = STR\_TO\_DATE(transaction\_date, '%d-%m-%Y');

ALTER TABLE coffee\_shop\_sales

MODIFY COLUMN transaction\_time TIME;

DESCRIBE coffee\_shop\_sales;

****

ALTER TABLE coffee\_shop\_sales

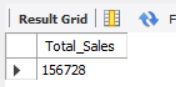
CHANGE COLUMN `ï»¿transaction\_id` transaction\_id INT;

requestments

1. Tổng doanh thu

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

FROM coffee\_shop\_sales



1. Tỷ trọng doanh thu so với tháng trước(tăng giảm bao nhiêu %)

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

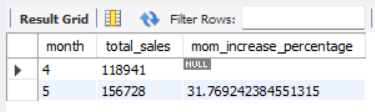
MONTH(transaction\_date) IN (4, 5) -- for months of April and May

GROUP BY

MONTH(transaction\_date)

ORDER BY

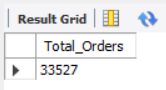
MONTH(transaction\_date);



3. Tổng số lượng order

SELECT COUNT(transaction\_id) as Total\_Orders

FROM coffee\_shop\_sales



4. Tỷ trọng tổng số order so với tháng trước

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

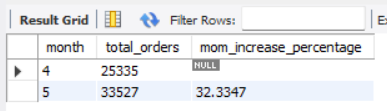
MONTH(transaction\_date) IN (4, 5) -- for April and May

GROUP BY

MONTH(transaction\_date)

ORDER BY

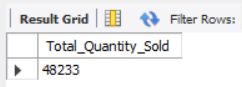
MONTH(transaction\_date);



5. Tổng số lượng sản phẩm đã bán

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

FROM coffee\_shop\_sales



6. Tỷ trọng tổng số bán so vơi tháng trước

SELECT

MONTH(transaction\_date) AS month,

ROUND(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

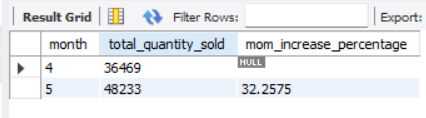
MONTH(transaction\_date) IN (4, 5) -- for April and May

GROUP BY

MONTH(transaction\_date)

ORDER BY

MONTH(transaction\_date);



7. Bảng tổng doanh thu, tống số lượng bán, tổng đơn order

SELECT

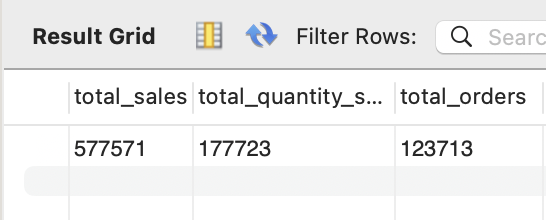
SUM(unit\_price \* transaction\_qty) AS total\_sales,

SUM(transaction\_qty) AS total\_quantity\_sold,

COUNT(transaction\_id) AS total\_orders

FROM

coffee\_shop\_sales



**(Hoặc)**

SELECT

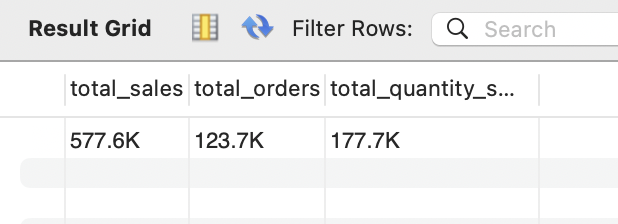
CONCAT(ROUND(SUM(price \* qty) / 1000, 1),'K') AS total\_sales,

CONCAT(ROUND(COUNT(id) / 1000, 1),'K') AS total\_orders,

CONCAT(ROUND(SUM(qty) / 1000, 1),'K') AS total\_quantity\_sold

FROM

cff



8. Doanh thu trung bình theo ngày

SELECT AVG(total\_sales) AS average\_sales

FROM (

SELECT

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

FROM

coffee\_shop\_sales

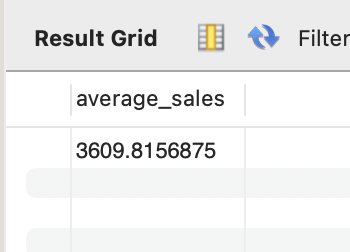
WHERE

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

GROUP BY

transaction\_date

) AS internal\_query;



9. Doanh thu từng ngày trong tháng (ví dụ tháng 5)

SELECT

DAY(transaction\_date) AS day\_of\_month,

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

FROM

coffee\_shop\_sales

WHERE

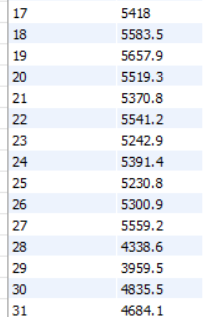
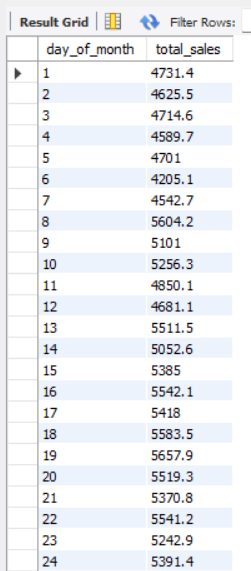
MONTH(transaction\_date) = 5

GROUP BY

DAY(transaction\_date)

ORDER BY

DAY(transaction\_date);



10. Truy vấn tháng để xem ngày nào trên hoặc dưới mức trung bình (ví dụ tháng 5)

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,

SUM(unit\_price \* transaction\_qty) 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

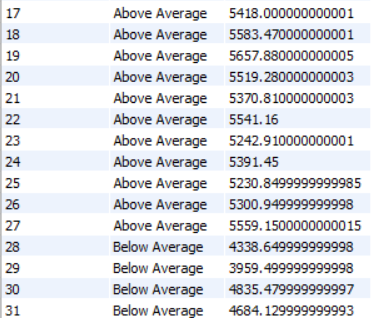
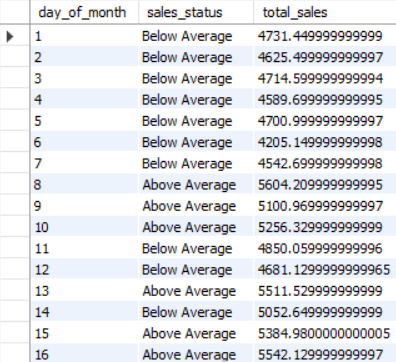
GROUP BY

DAY(transaction\_date)

) AS sales\_data

ORDER BY

day\_of\_month;



11. Tổng doanh thu các ngày trong tuần và cuối tuần (cuối tuần gồm thứ 7 và CN)

SELECT

CASE

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

ELSE 'Weekdays'

END AS day\_type,

ROUND(SUM(unit\_price \* transaction\_qty),2) AS total\_sales

FROM

coffee\_shop\_sales

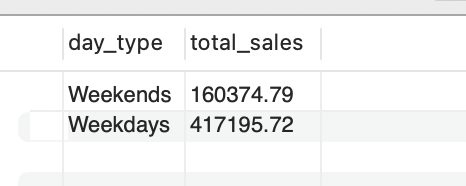
GROUP BY

CASE

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

ELSE 'Weekdays'

END;



12. Tổng doanh thu của các cửa hàng khác nhau

SELECT

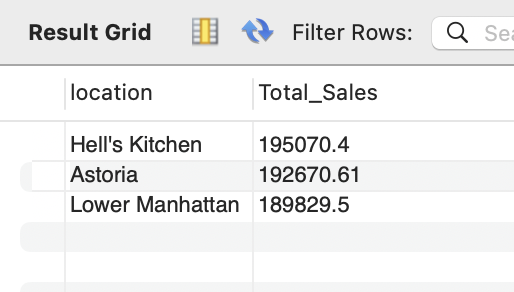
store\_location,

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

FROM coffee\_shop\_sales

GROUP BY store\_location

ORDER BY SUM(unit\_price \* transaction\_qty) DESC



13. Tổng doanh thu theo từng sản phẩm

SELECT

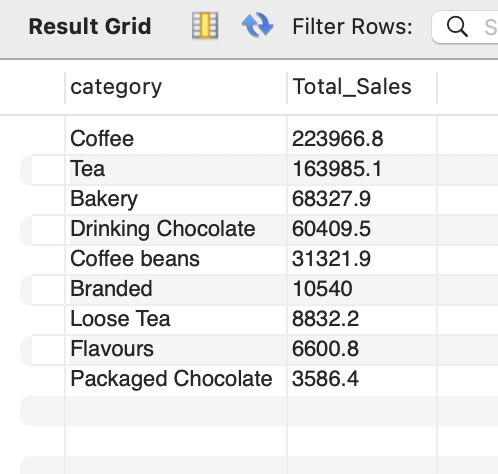
product\_category,

ROUND(SUM(unit\_price \* transaction\_qty),1) as Total\_Sales

FROM coffee\_shop\_sales

GROUP BY product\_category

ORDER BY SUM(unit\_price \* transaction\_qty) DESC



14. Liệt kê TOP 10 loại sản phẩm có doanh thu cao nhất

SELECT

product\_type,

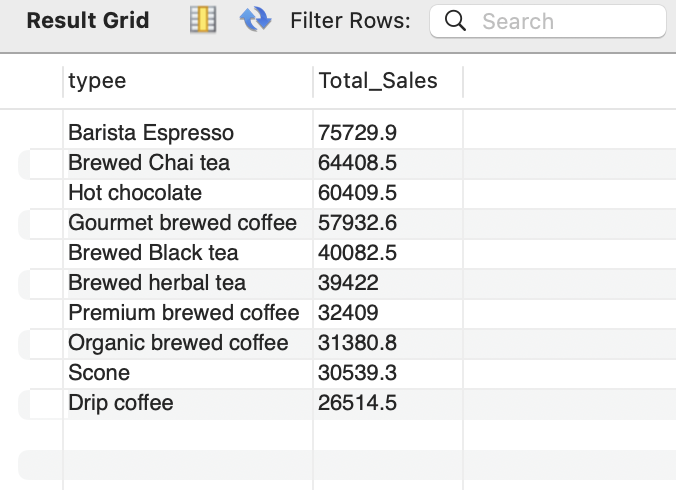
ROUND(SUM(unit\_price \* transaction\_qty),1) as Total\_Sales

FROM coffee\_shop\_sales

GROUP BY product\_type

ORDER BY SUM(unit\_price \* transaction\_qty) DESC

LIMIT 10



15. Truy vấn chi tiết doanh thu theo ngày, tháng, giờ cụ thể

SELECT

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

SUM(transaction\_qty) AS Total\_Quantity,

COUNT(\*) AS Total\_Orders

FROM

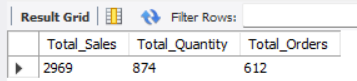
coffee\_shop\_sales

WHERE

DAYOFWEEK(transaction\_date) = 3 -- Thu 3

AND HOUR(transaction\_time) = 8 -- 8 Gio

AND MONTH(transaction\_date) = 5; -- Thang 5



16. Doanh thu các ngày trong tuần

SELECT

DAYNAME(datee) AS Day,

ROUND(SUM(price \* qty), 2) AS total\_sales

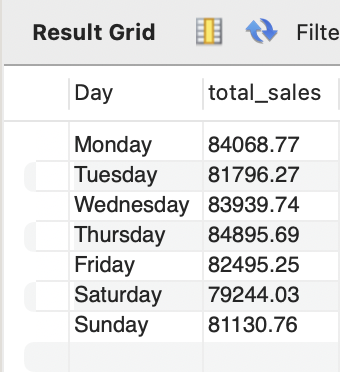
FROM

cff

GROUP BY Day

ORDER BY

FIELD(Day, 'Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday');



17. Doanh thu các giờ trong ngày

SELECT

HOUR(timee) AS Hour\_of\_Day,

ROUND(SUM(price \* qty)) AS Total\_Sales

FROM

cff

GROUP BY

HOUR(timee)

ORDER BY

HOUR(timee);

