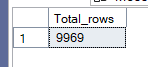
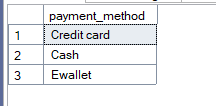
# SQL QUERY DOCUMENT

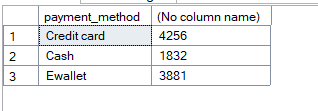
1. SELECT COUNT(\*) AS Total\_rows FROM Walmart\_sales;



1. SELECT DISTINCT payment\_method FROM Walmart\_sales;



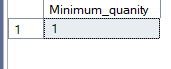
1. SELECT DISTINCT payment\_method,COUNT(\*) FROM Walmart\_sales GROUP BY payment\_method;



1. SELECT COUNT(DISTINCT Branch) AS Unique\_Branches FROM Walmart\_sales;



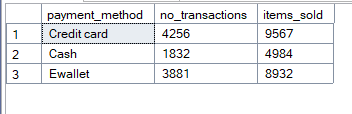
1. SELECT MIN(quantity) as Minimum\_quanity FROM Walmart\_sales;



## WALMART BUSINESS PROBLEMS

1. What are the different payment methods, and how many transactions and items were sold with each method?

SELECT payment\_method,COUNT(\*) AS no\_transactions, SUM(quantity) AS items\_sold FROM Walmart\_sales GROUP BY payment\_method;



1. Which category received the highest average rating in each branch?

SELECT Branch, category, avg\_rating

FROM (

SELECT

Branch,

category,

AVG(rating) AS avg\_rating,

RANK() OVER(PARTITION BY branch ORDER BY AVG(rating) DESC) AS rank

FROM Walmart\_sales

GROUP BY branch, category

) AS ranked

WHERE rank = 1;



… 101 rows

1. Calculate the total quantity of items sold per payment method

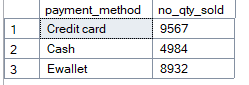
SELECT

payment\_method,

SUM(quantity) AS no\_qty\_sold

FROM Walmart\_sales

GROUP BY payment\_method;



1. Determine the average, minimum, and maximum rating of categories for each city

SELECT

city,

category,

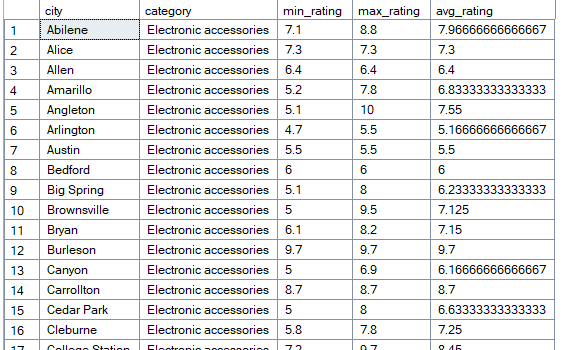
MIN(rating) AS min\_rating,

MAX(rating) AS max\_rating,

AVG(rating) AS avg\_rating

FROM Walmart\_sales

GROUP BY city, category;



…..rows

1. Calculate the total profit for each category

SELECT

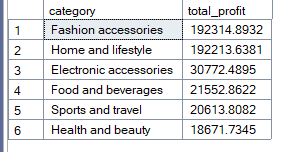
category,

SUM(unit\_price \* quantity \* profit\_margin) AS total\_profit

FROM Walmart\_sales

GROUP BY category

ORDER BY total\_profit DESC;



1. Determine the most common payment method for each branch

WITH cte AS (

SELECT

Branch,

payment\_method,

COUNT(\*) AS total\_trans,

RANK() OVER(PARTITION BY Branch ORDER BY COUNT(\*) DESC) AS rank

FROM Walmart\_sales

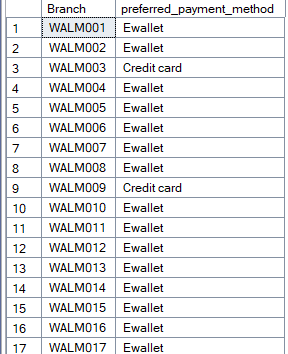
GROUP BY Branch, payment\_method

)

SELECT Branch, payment\_method AS preferred\_payment\_method

FROM cte

WHERE rank = 1;



…rows