Q.1 Find the different payment method and number of transaction , number of quantity sold Select payment\_method, count(\*) as no\_payments , sum(quantity) as no\_quantity\_sold from walmart group by payment\_method Q.2 Identify the highest rated category in each branch, displaying the branch, category **AVG Rating** Select \* from ( **SELECT** branch, category, avg(rating) as avg\_rating , rank() over(partition by branch order by avg(rating) desc) as rank from walmart group by 1,2 ) where rank = 1--Q.3 Identify the busiest day for each branch based on the number of transactions select \* From Select branch,

TO\_CHAR(date ,'day') as day\_name,

Rank() over (partition by branch ORDER by count(\*) desc) as rank

count(\*) as no\_transactions ,

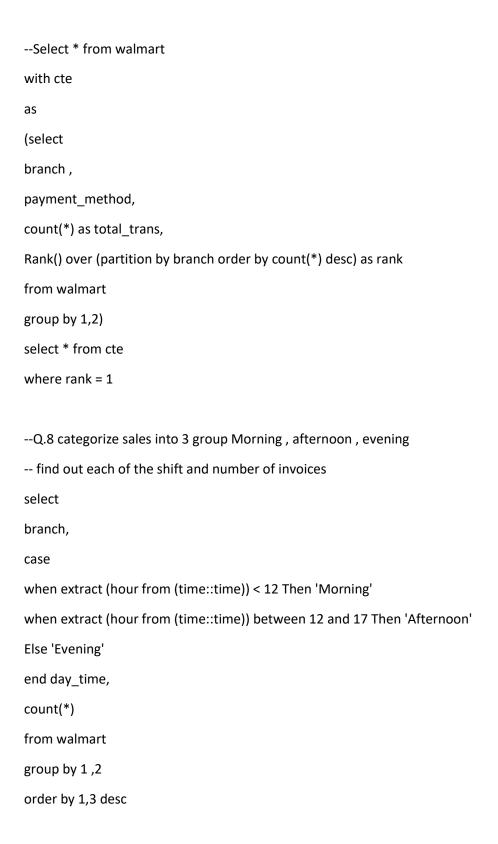
from walmart

group by 1,2

where rank = 1

```
--Q.4 calculate the total quantity of items sold per payment method . List payment_method and
total _quantity
select payment_method,
--count(*) as no_payments,
sum(quantity) as no_qty_sold
from walmart
group by payment_method
--Q.5 Determine the average, minimum, and maximum rating of category for each city.
--List the city, averate rating, min_rating and max_rating
Select
city,
category,
avg(rating) as avg_rating,
min(rating) as min_rating,
max(rating) as max_rating
from walmart
group by 1,2
--Q.6 calculate the total profit for each category by considering total profit as (unit price, quantity
and profit margin)
--List the category and total_profit , ordered from highest to lowest profit
select
category,
sum(total) as total_revenue,
sum(total * profit_margin)
from walmart
group by 1
```

--Q.7 Determine the most common payment method for each branch . Display branch and the preferred\_payment\_category



--Q.9 identitfy 5 branch with the highest decrease ratio in revenue compare to last year (current year 2023 and last year 2022) -- revenue decrease ratio == last\_rev - current\_rev / last\_rev \* 100 --2022 sales with revenue\_2022 as select branch, sum(total) as revenue from walmart where extract (year from date) = 2022 group by 1 ), revenue\_2023 as select branch, sum(total) as revenue from walmart where extract (year from date) = 2023 group by 1 ) select Is.branch, Is.revenue as last\_year\_revenue,

cs.revenue as cr\_year\_revenue,

Round((ls.revenue -cs.revenue )::numeric/ ls.revenue::numeric \* 100,

2) as rev\_dec\_ratio

from revenue\_2022 as Is

join

revenue\_2023 as cs

on Is.branch = cs.branch

where

ls.revenue > cs.revenue

order by 4 desc

limit 5