**Supercenters**

**1.Add column for Daytime**

SELECT

time, (CASE

WHEN time BETWEEN '00:00:00' AND '12:00:00' THEN 'Morning'

WHEN time BETWEEN '12:01:00' AND '16:00:00' THEN 'Afternoon'

ELSE 'Evening'

END) AS time\_of\_day

FROM

walmartdb.walmart;

alter table walmartdb.walmart add column time\_of\_day varchar (20);

update walmartdb.walmart

set time\_of\_day = (

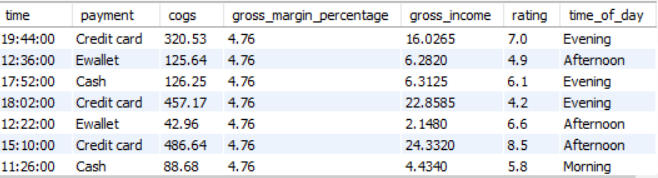
CASE

WHEN time BETWEEN '00:00:00' AND '12:00:00' THEN 'Morning'

WHEN time BETWEEN '12:01:00' AND '16:00:00' THEN 'Afternoon'

ELSE 'Evening'

END);



**2.Add column for Day name**

SELECT

date, DAYNAME(date) AS day\_name

FROM

walmartdb.walmart;

alter table walmartdb.walmart add column day\_name varchar(10);

update walmartdb.walmart

set day\_name = DAYNAME(date);

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3. A**dd column for month name**

SELECT

date, MONTHNAME(date)

FROM

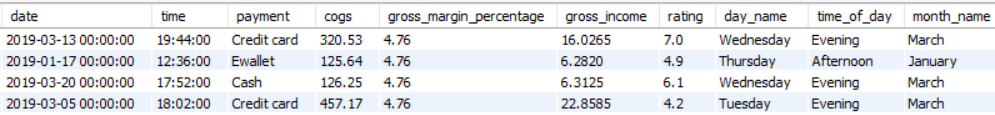
walmartdb.walmart;

alter table walmartdb.walmart add column month\_name varchar(15);

UPDATE walmartdb.walmart

SET

month\_name = MONTHNAME(date);



4. How many unique cities does in the data have?

select distinct city from walmartdb.walmart

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5.Which branch is located in each city?

select distinct city, branch from walmartdb.walmart

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6. How many unique product lines are in the data set?

select count(distinct product\_line) from walmartdb.walmart

A close up of a box

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7. What is the most common payment method?

SELECT

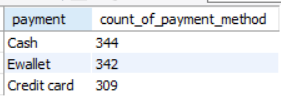
payment, COUNT(payment) AS count\_of\_payment\_method

FROM

walmartdb.walmart

GROUP BY payment

ORDER BY count\_of\_payment\_method DESC;



8.what is the most selling product line?

SELECT

product\_line, COUNT(product\_line) AS pl\_cnt

FROM

walmartdb.walmart

GROUP BY product\_line

ORDER BY pl\_cnt DESC;

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9. what is the total revenue by month?

SELECT DISTINCT

month\_name as month, ROUND(SUM(total), 2) as total\_sales

FROM

walmartdb.walmart

GROUP BY month

order by total\_sales desc;

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10. Which month had the highest COGS?

SELECT

month\_name AS month, SUM(cogs) AS cogs

FROM

walmartdb.walmart

GROUP BY month;

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11. Which product line generated the largest revenue?

SELECT

product\_line AS product\_line,

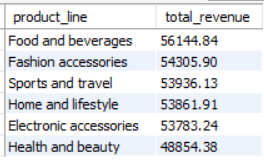
ROUND(SUM(total), 2) AS total\_revenue

FROM

walmartdb.walmart

GROUP BY product\_line

order by total\_revenue desc;



12. which city is with the largest revenue?

SELECT

city, sum(total) AS total\_revenue

FROM

walmartdb.walmart

GROUP BY city

ORDER BY total\_revenue DESC;

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13. Which product line is associated with the highest tax?

SELECT

product\_line, ROUND(SUM(tax), 2) AS tax

FROM

walmartdb.walmart

GROUP BY product\_line

ORDER BY tax DESC;

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13. How much is the average tax associated with the product line?

SELECT

product\_line, ROUND(AVG(tax), 2) AS avg\_tax

FROM

walmartdb.walmart

GROUP BY product\_line

ORDER BY avg\_tax DESC;

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14. Which branch sold more products than average product sold?

SELECT

branch, SUM(quantity) AS qty

FROM

walmartdb.walmart

GROUP BY branch

HAVING SUM(quantity) > (SELECT

AVG(quantity)

FROM

walmartdb.walmart);

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15. Which types of product lines are preferred by different genders?

SELECT

gender, product\_line, COUNT(gender) AS total\_nos

FROM

walmartdb.walmart

GROUP BY gender , product\_line

ORDER BY total\_nos;

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16. What is the average rating of each product line?

SELECT

product\_line, ROUND(AVG(rating), 2) AS avg\_rating

FROM

walmartdb.walmart

GROUP BY product\_line;

A screenshot of a product list

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17. What is the number of sales made at different times of the day for each weekday?

SELECT

time\_of\_day, COUNT(\*) as cnt

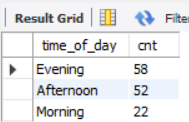
FROM

walmartdb.walmart

where day\_name = "sunday"

GROUP BY time\_of\_day, day\_name

order by cnt desc;



18 . Which customer type has the greater purchasing power?

SELECT

customer\_type, ROUND(SUM(total), 2) AS purchasing\_p

FROM

walmartdb.walmart

GROUP BY customer\_type

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19. Which city has the highest percentage of tax payments?

SELECT

city,

CONCAT(ROUND(SUM(tax) / (SELECT

SUM(tax)

FROM

walmartdb.walmart) \* 100,

2),

'%') AS percent

FROM

walmartdb.walmart

GROUP BY city

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20. Which type of customer pays the highest amount of tax?

SELECT

customer\_type, SUM(tax)

FROM

walmartdb.walmart

GROUP BY customer\_type SELECT

customer\_type, SUM(tax)

FROM

walmartdb.walmart

GROUP BY customer\_type

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21. Find out most customer purchasing power?

SELECT

gender, ROUND(SUM(total), 2) AS total\_revenue

FROM

walmartdb.walmart

GROUP BY gender

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22. Which city has purchasing power also counting separate by gender?

1. SELECT

city,

CONCAT('$', FORMAT(SUM(CASE

WHEN gender = 'female' THEN total

ELSE 0

END), 2)) AS female,

CONCAT('$', FORMAT(SUM(CASE

WHEN gender = 'male' THEN total

ELSE 0

END), 2)) AS male,

CONCAT('$', FORMAT(SUM(total), 2)) AS grand\_total

FROM

walmartdb.walmart

GROUP BY city WITH ROLLUP;

A screenshot of a graph

Description automatically generated

1. SELECT

city,

SUM(CASE

WHEN gender = 'female' THEN 1

ELSE 0

END) AS female,

SUM(CASE

WHEN gender = 'male' THEN 1

ELSE 0

END) AS male,

COUNT(\*) AS grand\_total

FROM

walmartdb.walmart

GROUP BY city WITH ROLLUP;

A screenshot of a computer screen

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23. At what times do customers provide average ratings, and how do these ratings vary by gender?

SELECT

time\_of\_day, AVG(rating)

FROM

walmartdb.walmart

GROUP BY time\_of\_day

A screenshot of a computer

Description automatically generated

SELECT

time\_of\_day,

SUM(CASE

WHEN gender = 'female' THEN 1

ELSE 0

END) AS female,

SUM(CASE

WHEN gender = 'male' THEN 1

ELSE 0

END) AS male,

COUNT(\*) AS total\_no

FROM

walmartdb.walmart

GROUP BY time\_of\_day WITH ROLLUP

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