

```
create database walmartt;
```

```
use walmartt;
```

```
select * from wm;
```

```
-- add time for the day to get clarity
```

```
alter table wm add time_of_day varchar(40);
```

```
--updateing time_of_day column
```

```
update wm 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
```

```
);
```

```
--add day column
```

```
alter table wm add dayn varchar(30);
```

```
--updating values in dayn
```

```
update wm set dayn
```

```
= datename(weekday,date);
```

```
--add month column
```

```
alter table wm add months varchar(30);
```

```
--updating values
```

```
update wm set months=format(date,'MMMM');
```

```
-- How many unique cities does the data have?
```

```
SELECT COUNT(DISTINCT(CITY)) from wm;
```

```
-- In which city is each branch?
```

```
select distinct(City),branch from wm;
```

```
-- How many unique product lines does the data have?
```

```
select count(distinct(product_line)) from wm;
```

```
-- What is the most selling product line?
```

```
select sum(Quantity)as total_sold,
```

```
product_line from wm group by
```

```
product_line order by total_sold desc;
```

```
-- What is the total revenue by month?
```

```
select months,round(sum(total),2) as Revenue from wm
group by months order by revenue;
```

```
-- What month had the largest COGS?
```

```
select months ,Round(sum(cogs),2) as Total_sold_cogs
from wm group by months order by total_sold_cogs desc
;
```

```
-- What product line had the largest revenue?
```

```
select product_line,round(sum(total),2) as Total from wm
group by product_line order by total desc;
```

```
-- What is the city with the largest revenue?
```

```
select branch,City,round(sum(total),2) as Total from wm
group by city ,branch order by total desc;
```

```
-- What product line had the largest VAT?
```

```
select Product_line,round(sum(Tax_5),2) as Total from wm
group by product_line order by total desc;
```

```
select * from wm;
```

```
-- Fetch each product line and add a column to those product
```

```
-- line showing "Good", "Bad". Good if its greater than average sales
```

```
select avg() from wm;
```

```
select product_line,
case
```

```
    when round(avg(quantity),2) >=6 then 'good'
    else 'bad'
    end as 'status'
from wm
```

```
group by product_line
;
```

```
-- Which branch sold more products than average product sold?
```

```
select round(avg(quantity),2) from wm;
```

```
select branch,round(sum(quantity),2) as productsold from wm
group by branch
```

```
having round(sum(quantity),2) >(select round(avg(quantity),2));
```

```
-- What is the most common product line by gender?
```

```
SELECT
    gender,
    product_line,
    COUNT(gender) AS total_cnt
FROM wm
GROUP BY gender, product_line
ORDER BY total_cnt DESC;
```

-- What is the average rating of each product line

```
SELECT
    ROUND(AVG(rating), 2) as avg_rating,
    product_line
FROM wm
GROUP BY product_line
ORDER BY avg_rating DESC;
```

-- How many unique customer types does the data have?

```
SELECT customer_type,
    count(DISTINCT (customer_type))
FROM wm;
```

-- How many unique payment methods does the data have?

```
SELECT
    DISTINCT payment
FROM wm;
```

-- What is the most common customer type?

```
SELECT
    customer_type,
    count(*) as count
FROM wm
GROUP BY customer_type
ORDER BY count DESC;
```

-- Which customer type buys the most?

```
SELECT
    customer_type,
    COUNT(*)
FROM wm
GROUP BY customer_type;
```

-- What is the gender of most of the customers?

```
SELECT
    gender,
    COUNT(*) as gender_cnt
FROM wm
```

```
GROUP BY gender
ORDER BY gender_cnt DESC;
```

```
-- What is the gender distribution per branch?
```

```
SELECT branch,
       gender,
       COUNT(gender) AS gender_cnt
FROM wm
GROUP BY gender, branch
ORDER BY gender_cnt DESC;
```

```
-- Which time of the day do customers give most ratings?
```

```
SELECT
       time_of_day,
       AVG(rating) AS avg_rating
FROM wm
GROUP BY time_of_day
ORDER BY avg_rating DESC;
```

```
-- Looks like time of the day does not really affect the rating, its
```

```
-- more or less the same rating each time of the day.alter
```

```
-- Which day fo the week has the best avg ratings?
```

```
SELECT
       dayn,
       AVG(rating) AS avg_rating
FROM wm
GROUP BY dayn
ORDER BY avg_rating DESC;
select * from wm;
```

```
-- Which of the customer types brings the most revenue?
```

```
SELECT
       customer_type,
       SUM(total) AS total_revenue
FROM wm
GROUP BY customer_type
ORDER BY total_revenue;
```