SQL Questions

Find total sales

```
SELECT SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Find total profit

```
SELECT SUM(profit) AS total_profit
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Count total number of orders

```
SELECT COUNT(DISTINCT order_id) AS total_orders
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Find total quantity sold

```
SELECT SUM(order_quantity) AS total_quantity
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Calculate Average Order Value (AOV)

```
SELECT SUM(sales) / COUNT(DISTINCT order_id) AS avg_order_value
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Find sales by customer segment

```
SELECT customer_segment, SUM(sales) AS segment_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY customer_segment;
```

Find sales by region

```
SELECT region, SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY region;
```

Find top 5 cities by sales

```
SELECT city, SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY city
ORDER BY total_sales DESC
LIMIT 5;
```

Find top 5 products by sales

```
SELECT product_name, SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY product_name
ORDER BY total_sales DESC
LIMIT 5;
```

Monthly sales analysis

```
SELECT
   EXTRACT(MONTH FROM order_date) AS month,
   SUM(sales) AS monthly_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY month
ORDER BY month;
```

Year-wise sales

```
SELECT
   EXTRACT(YEAR FROM order_date) AS year,
   SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY year
ORDER BY year;
```

Find profit by product category

```
SELECT product_category, SUM(profit) AS total_profit
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY product_category;
```

Find average discount given

```
SELECT AVG(discount) AS avg_discount
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Orders with discount greater than 30%

```
SELECT *
FROM Walmart_SQL_READY_FINAL_PG_SAFE
WHERE discount > 0.3;
```

Find shipping cost by ship mode

```
SELECT ship_mode, SUM(shipping_cost) AS total_shipping_cost
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY ship_mode;
```

Find customers with highest total sales

```
SELECT customer_name, SUM(sales) AS total_sales
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY customer_name
ORDER BY total_sales DESC
LIMIT 5;
```

Find number of orders per region

```
SELECT region, COUNT(DISTINCT order_id) AS orders_count
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY region;
```

Find loss-making orders (negative profit)

```
SELECT *
FROM Walmart_SQL_READY_FINAL_PG_SAFE
WHERE profit < 0;
```

Find most sold product category

```
SELECT product_category, SUM(order_quantity) AS total_quantity
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY product_category
ORDER BY total_quantity DESC
LIMIT 1;
```

City-wise profit analysis

```
SELECT city, SUM(profit) AS total_profit
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY city;
```

Find average shipping cost

```
SELECT AVG(shipping_cost) AS avg_shipping_cost
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Orders count by order priority

```
SELECT order_priority, COUNT(order_id) AS orders_count
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY order_priority;
```

Find highest single order value

```
SELECT MAX(sales) AS highest_order_value
FROM Walmart_SQL_READY_FINAL_PG_SAFE;
```

Find customers with more than 5 orders

```
SELECT customer_name, COUNT(order_id) AS total_orders
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY customer_name
HAVING COUNT(order_id) > 5;
```

Create a view for dashboard use

```
CREATE VIEW walmart_sales_summary AS
SELECT
   region,
   product_category,
   SUM(sales) AS total_sales,
   SUM(profit) AS total_profit
FROM Walmart_SQL_READY_FINAL_PG_SAFE
GROUP BY region, product_category;
```

DAX FORMULAS USED IN PROJECT

Total Sales

Total Sales =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[sales])

Calculates total revenue.

Net Profit

Net Profit =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[profit])

Calculates total profit.

Orders Count

Orders Count =

DISTINCTCOUNT(Walmart_SQL_READY_FINAL_PG_SAFE[order_id])

Counts unique orders.

Units Sold

Units Sold =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[order_quantity])

Total quantity of products sold.

Average Order Value (AOV)

Average Order Value =

DIVIDE([Total Sales], [Orders Count])

Average revenue per order.

Total Cost (Derived)

Total Cost =

[Total Sales] - [Net Profit]

Calculates cost when cost column is not directly available.

Sales by City

City Sales =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[sales])

Used for **Top 5 Cities by Sales** chart.

Sales by Product

Product Sales =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[sales])

Used for **Top 5 Products by Sales** chart.

Sales by Customer Segment

Segment Sales =

SUM(Walmart_SQL_READY_FINAL_PG_SAFE[sales])

Used in **Donut Chart (Customer Segment)**.

CALCULATED COLUMNS (Time Analysis)

Month

Month =

FORMAT(Walmart_SQL_READY_FINAL_PG_SAFE[order_date], "MMMM")

Extracts month name (January–December).

Month Number

Month No =

MONTH(Walmart_SQL_READY_FINAL_PG_SAFE[order_date])

Used for correct month sorting.

Year

Year =

YEAR(Walmart_SQL_READY_FINAL_PG_SAFE[order_date])

Used for year-wise filtering.