

A dark grey line starting from the left edge, extending horizontally, then diagonally down to a solid dark grey circle.

WALMART

SALES ANALYSIS

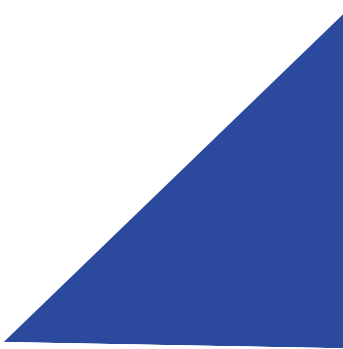



SAVE MONEY. LIVE BETTER.

Large blue geometric shapes on the right side of the slide, including a large triangle pointing left and a smaller triangle pointing up.

INTRODUCTION



This exploring key insights, including top-selling cities, product lines, monthly revenue, branch gender distribution, gross income, and total profit. These insights aim to provide actionable data for strategic decision-making and operational enhancement.

Walmart 



```
CREATE DATABASE walmartsales;



CREATE TABLE wsales(
invoice_id varchar(30) primary key,
branch varchar(5) not null,
city varchar(30) not null,
customer_type varchar(30) not null,
gender varchar(10) not null,
product_line varchar(100) not null,
unit_price decimal(10,2) not null,
quantity int not null,
VAT float(6,4) not null,
total decimal(12,4) not null,
date datetime not null,
time time not null,
payment_method varchar(15) not null,
cogs decimal(10,2) not null,
gross_margin_pct float(11,9),
gross_income decimal(12,4) not null,
rating float(2,1));
```



```
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_date
FROM wsales;
```

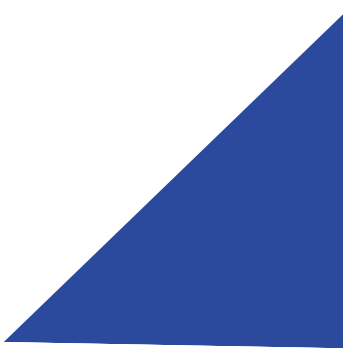

```
ALTER TABLE wsales ADD COLUMN time_of_day VARCHAR(20);
```





```
UPDATE wsales
  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);
```

```
SELECT
  date,
  DAYNAME(date) AS day_name
FROM wsales;
```





```
ALTER TABLE wsales ADD COLUMN day_name VARCHAR(10);
```

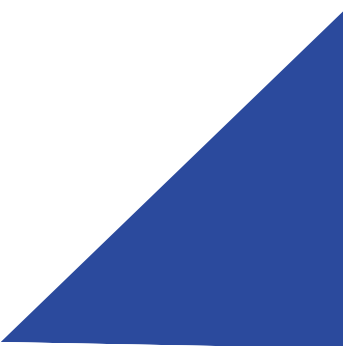

```
UPDATE wsales  
SET day_name=DAYNAME(date);
```

```
SELECT  
    date,  
    MONTHNAME(date) AS month_name  
FROM wsales;
```



```
ALTER TABLE wsales ADD COLUMN month_name VARCHAR(10);
```

```
UPDATE wsales  
SET month_name=MONTHNAME(date);
```



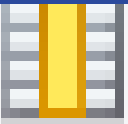
Q1



HOW MANY UNIQUE CITIES DOES THE DATA HAVE?

```
SELECT DISTINCT CITY FROM WSALES;
```

Result Grid



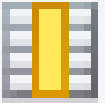

	city
▶	Yangon
	Naypyitaw
	Mandalay

Q2



FIND PRODUCT_LINE WITH TOTAL PROFIT GREATER THAN 1000?

```
SELECT PRODUCT_LINE ,  
SUM(TOTAL)AS TOTAL  
FROM WSALES GROUP BY PRODUCT_LINE  
HAVING TOTAL> 50000;
```

Result Grid   Filter Rows: <input type="text"/>		
	product_line	total
▶	Food and beverages	56144.8440
	Sports and travel	53936.1270
	Fashion accessories	54305.8950
	Home and lifestyle	53861.9130
	Electronic accessories	53783.2365

Q3



WRITE A QUERY TO SHOW TOTAL GROSS INCOME ?

```
SELECT ROUND(SUM(GROSS_INCOME),2)AS TOTAL_GROSS_INCOME  
FROM WSALES;
```

Result Grid	
	total_gross_income
	15280.30

Q4



WHAT IS THE GENDER DISTRIBUTION PER BRANCH?

```
SELECT BRANCH,  
GENDER,  
COUNT(*) AS COUNT  
FROM WSALES  
GROUP BY BRANCH,GENDER;
```

Result Grid			
Filter Rows			
	branch	gender	count
▶	A	Male	179
	C	Female	177
	C	Male	150
	B	Female	160
	B	Male	169
	A	Female	160

Q5



WRITE A QUERY TO SHOW THE GROSS INCOME FOR THE MONTH OF JANUARY ?

```
SELECT MONTH_NAME,SUM(GROSS_INCOME) AS TOTAL_INCOME  
FROM WSALES  
WHERE MONTH_NAME="JANUARY";
```

Result Grid



Filter Rows:

month_name

total_income



January

5537.7080

Q6



SELECT ALL THE DATA FROM DATABASE FOR THE PRODUCT_LINEFOOD AND BEVERAGES & HOME AND LIFESTYLE?

```
SELECT * FROM WSALES  
WHERE PRODUCT_LINE IN('FOOD AND BEVERAGES','HOME AND LIFESTYLE');
```



	invoice_id	branch	city	customer_type	gender	product_line	unit_price	quantity	VAT
▶	101-17-6199	A	Yangon	Normal	Male	Food and beverages	45.79	7	16.0265
	106-35-6779	A	Yangon	Member	Male	Home and lifestyle	44.34	2	4.4340
	110-05-6330	C	Naypyitaw	Normal	Female	Food and beverages	39.43	6	11.8290
	118-62-1812	C	Naypyitaw	Member	Female	Home and lifestyle	78.38	4	15.6760
	120-54-2248	B	Mandalay	Normal	Female	Food and beverages	28.86	5	7.2150
	126-54-1082	A	Yangon	Member	Female	Home and lifestyle	21.54	9	9.6930
	130-67-4723	A	Yangon	Member	Male	Food and beverages	48.50	6	14.5500
	131-15-8856	C	Naypyitaw	Member	Female	Food and beverages	72.52	8	29.0080
	135-13-8269	B	Mandalay	Member	Female	Food and beverages	78.88	2	7.8880
	136-08-6195	A	Yangon	Normal	Female	Home and lifestyle	69.96	8	27.9840
	138-17-5109	A	Yangon	Member	Female	Home and lifestyle	89.21	9	40.1445

Q7



WHAT IS THE MOST SELLING PRODUCT LINE?

```
SELECT PRODUCT_LINE,  
COUNT(PRODUCT_LINE) AS PRODUCT_COUNT  
FROM WSALES  
GROUP BY PRODUCT_LINE  
ORDER BY PRODUCT_COUNT DESC;
```

Result Grid   Filter Rows: <input data-bbox="949 906 1186 1005" type="text"/>		
	product_line	product_count
▶	Fashion accessories	178
	Food and beverages	174
	Electronic accessories	169
	Sports and travel	163
	Home and lifestyle	160
	Health and beauty	151

Q8



WHAT IS THE TOTAL REVENUE BY MONTH?

```
SELECT MONTH_NAME AS MONTH,  
ROUND(SUM(TOTAL),2)AS TOTAL_REVENUE  
FROM WSALES  
GROUP BY MONTH;
```

Result Grid			Filter Rows	
	month	total_revenue		
▶	March	108867.15		
	January	116291.87		
	February	95727.38		

Q9



Q4 FETCH EACH PRODUCT LINE AND ADD A COLUMN TO THOSE PRODUCT LINE SHOWING "GOOD", "BAD".GOOD IF ITS GREATER THAN AVERAGE SALES */

```
SELECT PRODUCT_LINE,  
       CASE  
         WHEN TOTAL > (SELECT AVG(TOTAL) FROM WSALES) THEN 'GOOD'  
         ELSE 'BAD'  
       END AS PERFORMANCE  
FROM WSALES;
```

	product_line	performance
▶	Food and beverages	Good
	Health and beauty	Bad
	Sports and travel	Bad
	Health and beauty	Good
	Fashion accessories	Bad
	Sports and travel	Good
	Home and lifestyle	Bad
	Fashion accessories	Good
	Sports and travel	Good

Q10



WHICH OF THE CUSTOMER TYPES BRINGS THE MOST REVENUE?

```
SELECT CUSTOMER_TYPE,  
SUM(TOTAL) AS REVENUE  
FROM WSALES  
GROUP BY CUSTOMER_TYPE  
ORDER BY REVENUE DESC ;
```

Result Grid



Filter Rows:

	customer_type	revenue
▶	Member	163625.1015
	Normal	157261.2930

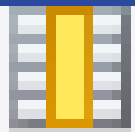
Q11



WHICH CITY HAS THE LARGEST TAX PERCENT/ VAT (VALUE ADDED TAX)?

```
SELECT CITY,  
AVG(VAT) AS AVG_VAT  
FROM WSALES  
GROUP BY CITY  
ORDER BY AVG_VAT DESC;
```

Result Grid



Filter Rows

	city	avg_VAT
▶	Naypyitaw	16.09010850
	Mandalay	15.13020824
	Yangon	14.87020798

Q12



WHAT IS THE MOST COMMON CUSTOMER TYPE?

```
SELECT CUSTOMER_TYPE, COUNT(*) AS FREQUENCY  
FROM WSALES  
GROUP BY CUSTOMER_TYPE  
ORDER BY FREQUENCY DESC  
LIMIT 1;
```

Result Grid



Filter Rows:

customer_type

frequency



Member

499

Q13



WHICH TIME OF THE DAY DO CUSTOMERS GIVE MOST RATINGS?

```
SELECT TIME_OF_DAY,  
COUNT(RATING) AS RATING_COUNT  
FROM WSALES  
GROUP BY TIME_OF_DAY  
ORDER BY RATING_COUNT DESC  
LIMIT 1;
```

Result Grid



Filter Rows

time_of_day

rating_count



Evening

429