



**SQL PROJECT**

# WALMART





# Agenda

1. Introduction
2. Questionnaires
3. Query
4. Result Grid
5. Summary

# Introduction

WALMART engages in retail and wholesale business. The company offers an assortment of merchandise and services at everyday low prices



# Question No. 1

## UPDATE TIME INTO MORNING AND AFTERNOON

```
ALTER TABLE WALMART
ADD COLUMN TIME_TYPE VARCHAR(30) NOT NULL AFTER TIME;
UPDATE WALMART
SET TIME_TYPE = 'MORNING' WHERE TIME < '12:00:00';
UPDATE WALMART
SET TIME_TYPE = 'AFTERNOON' WHERE TIME > '12:00:00';
```

Result Grid																
Filter Rows:																
Export: Wrap Cell Content:																
	UNIT_PRICE	QUANTITY	INFORMATION	TAX_5_PERNT	TOTAL	DATE	WEEKDAY	MONTHNAME	DAYNAME	TIME	TIME_TYPE	PAYMENT	COGS	GROSS_MARGIN	GROSS_INCOME	RATING
▶	74.69	7	GOOD	26.1415	548.9715	2019-01-05	5	January	Saturday	13:08:00	AFTERNOON	Ewallet	522.8300	4.7619047620	26.1415000000	9.10
\$	15.28	5	BAD	3.8200	80.2200	2019-03-08	4	March	Friday	10:29:00	MORNING	Cash	76.4000	4.7619047620	3.8200000000	9.60
	46.33	7	GOOD	16.2155	340.5255	2019-03-03	6	March	Sunday	13:23:00	AFTERNOON	Credit card	324.3100	4.7619047620	16.2155000000	7.40
	58.22	8	GOOD	23.2880	489.0480	2019-01-27	6	January	Sunday	20:33:00	AFTERNOON	Ewallet	465.7600	4.7619047620	23.2880000000	8.40
	86.31	7	GOOD	30.2085	634.3785	2019-02-08	4	February	Friday	10:37:00	MORNING	Ewallet	604.1700	4.7619047620	30.2085000000	5.30
\$	85.39	7	GOOD	29.8865	627.6165	2019-03-25	0	March	Monday	18:30:00	AFTERNOON	Ewallet	597.7300	4.7619047620	29.8865000000	4.10
\$	68.84	6	GOOD	20.6520	433.6920	2019-02-25	0	February	Monday	14:36:00	AFTERNOON	Ewallet	413.0400	4.7619047620	20.6520000000	5.80
	73.56	10	GOOD	36.7800	772.3800	2019-02-24	6	February	Sunday	11:38:00	MORNING	Ewallet	735.6000	4.7619047620	36.7800000000	8.00
	36.26	2	BAD	3.6260	76.1460	2019-01-10	3	January	Thursday	17:15:00	AFTERNOON	Credit card	72.5200	4.7619047620	3.6260000000	7.20
	54.84	3	BAD	8.2260	172.7460	2019-02-20	2	February	Wednesday	13:27:00	AFTERNOON	Credit card	164.5200	4.7619047620	8.2260000000	5.90

# QUESTION NO. 2

**HOW MANY UNIQUE CITIES DOES THE DATA HAVE?**

```
SELECT COUNT(DISTINCT(CITY)) FROM WALMART;
```

Result Grid		Filter Rows
	COUNT(DISTINCT(CITY))	
▶	3	



## QUESTION NO. 3

Which is the most selling product line?

```
SELECT PRODUCT_LINE, MAX(QUANTITY) AS MOST_SELLING_PRODUCT_LINE FROM WALMART GROUP BY PRODUCT_LINE ORDER BY MOST_SELLING_PRODUCT_LINE DESC LIMIT 1;
```

Result Grid			Filter Rows:
	QTY	PRODUCT_LINE	
▶	971	Electronic accessories	

# QUESTION NO. 4

**WHICH MONTH HAD THE LARGEST COGS?**

```
SELECT 'MONTHNAME', MAX(COGS) AS LARGEST_COGS FROM WALMART GROUP BY 'MONTHNAME' ORDER BY LARGEST_COGS DESC LIMIT 1;
```

Result Grid			Filter Rows:	
	MONTHNAME	LARGEST_COGS		
▶	February	993.0000		



## QUESTION NO. 5

**WHICH IS THE CITY WITH THE LARGEST REVENUE?**

```
SELECT CITY, MAX(TOTAL) AS LARGEST_REVENUE FROM WALMART GROUP BY CITY ORDER BY LARGEST_REVENUE DESC LIMIT 1;
```

Result Grid			Filter Rows:	
	CITY	LARGEST_REVENUE		
▶	Naypyitaw	1042.6500		



# QUESTION NO. 6

**Fetch each product line and add a column to those product line showing "Good", "Bad". Good if its greater than average sales**

```
ALTER TABLE WALMART
```

```
ADD COLUMN INFORMATION VARCHAR(30) NOT NULL AFTER QUANTITY;
```

```
SELECT INVOICE_ID, CUSTOMER, GENDER, CITY, PRODUCT_LINE, QUANTITY, IF(QUANTITY > (SELECT avg(QUANTITY) FROM WALMART), 'GOOD', 'BAD') AS ANALYSIS  
FROM WALMART GROUP BY INVOICE_ID, CUSTOMER, GENDER, CITY, PRODUCT_LINE, QUANTITY;
```

```
UPDATE WALMART
```

```
SET INFORMATION = IF(QUANTITY > ('5.510'), 'GOOD', 'BAD');
```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	VCH	CITY	CUSTOMER	GENDER	PRODUCT_LINE	UNIT_PRICE	QUANTITY	INFORMATION	TAX_5_PERNT	TOTAL	DATE	WEEKDAY	MONTHNAME	DAYNAME	TIME	TIME_TYPE	PAYMENT
		Yangon	Member	Female	Health and beauty	74.69	7	GOOD	26.1415	548.9715	2019-01-05	5	January	Saturday	13:08:00	AFTERNOON	Ewallet
		Naypyitaw	Normal	Female	Electronic accessories	15.28	5	BAD	3.8200	80.2200	2019-03-08	4	March	Friday	10:29:00	MORNING	Cash
		Yangon	Normal	Male	Home and lifestyle	46.33	7	GOOD	16.2155	340.5255	2019-03-03	6	March	Sunday	13:23:00	AFTERNOON	Credit card
		Yangon	Member	Male	Health and beauty	58.22	8	GOOD	23.2880	489.0480	2019-01-27	6	January	Sunday	20:33:00	AFTERNOON	Ewallet
		Yangon	Normal	Male	Sports and travel	86.31	7	GOOD	30.2085	634.3785	2019-02-08	4	February	Friday	10:37:00	MORNING	Ewallet
		Naypyitaw	Normal	Male	Electronic accessories	85.39	7	GOOD	29.8865	627.6165	2019-03-25	0	March	Monday	18:30:00	AFTERNOON	Ewallet
		Yangon	Member	Female	Electronic accessories	68.84	6	GOOD	20.6520	433.6920	2019-02-25	0	February	Monday	14:36:00	AFTERNOON	Ewallet
		Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	GOOD	36.7800	772.3800	2019-02-24	6	February	Sunday	11:38:00	MORNING	Ewallet
		Yangon	Member	Female	Health and beauty	36.26	2	BAD	3.6260	76.1460	2019-01-10	3	January	Thursday	17:15:00	AFTERNOON	Credit card
		Mandalay	Member	Female	Food and beverages	54.84	2	BAD	9.2760	107.7460	2019-03-30	2	February	Wednesday	12:27:00	AFTERNOON	Credit card

## QUESTION NO. 7

**Which branch sold more products than average product sold?**

```
SELECT BRANCH, SUM(QUANTITY) AS QTY FROM WALMART GROUP BY BRANCH HAVING SUM(QUANTITY) > (SELECT AVG(QUANTITY) FROM WALMART);
```

Result Grid			Filter Rows:
	BRANCH	QTY	
▶	A	1859	
	C	1831	
	B	1820	



## QUESTION NO. 8

**What is the gender distribution per branch?**

```
SELECT GENDER, COUNT(*) as GENDER_COUNT FROM WALMART WHERE BRANCH = "C" GROUP BY GENDER ORDER BY GENDER_COUNT DESC;
```

Result Grid			Filter Rows:
	GENDER	GENDER_COUNT	
▶	Female	178	
	Male	150	

# QUESTION NO. 9

**Which time of the day do customers give most ratings per branch?**

```
SELECT TIME, BRANCH, MAX(RATING) AS MOST_RATING FROM WALMART GROUP BY TIME, BRANCH ORDER BY MOST_RATING;
```

Result Grid			
Filter Rows:			
	TIME	BRANCH	MOST_RATING
▶	18:17:00	B	4.00
	14:31:00	C	4.00
	19:14:00	B	4.00
	13:32:00	B	4.00
	19:26:00	C	4.00
	13:10:00	B	4.00
	20:06:00	A	4.00
	19:38:00	C	4.00
	17:49:00	C	4.00
	15:47:00	B	4.10
	13:11:00	C	4.10





Result 10 ×



# QUESTION NO. 10

**Number of sales made in each time of the day per weekday**

```
ALTER TABLE WALMART
ADD COLUMN `WEEKDAY` VARCHAR(30) NOT NULL AFTER DATE;
UPDATE WALMART
SET `WEEKDAY` = weekday(`DATE`);
SELECT * FROM WALMART;
SELECT `WEEKDAY`, `TIME`, TOTAL AS SALES FROM WALMART WHERE `WEEKDAY` <= 5;
```

Result Grid   Filter Rows: <input type="text"/> Export:  Wrap Cell Content: 																
	ANCH	CITY	CUSTOMER	GENDER	PRODUCT_LINE	UNIT_PRICE	QUANTITY	INFORMATION	TAX_5_PERNT	TOTAL	DATE	WEEKDAY	MONTHNAME	DAYNAME	TIME	PAYME
▶		Yangon	Member	Female	Health and beauty	74.69	7	GOOD	26.1415	548.9715	2019-01-05	5	January	Saturday	13:08:00	Ewallet
		Naypyitaw	Normal	Female	Electronic accessories	15.28	5	BAD	3.8200	80.2200	2019-03-08	4	March	Friday	10:29:00	Cash
		Yangon	Normal	Male	Home and lifestyle	46.33	7	GOOD	16.2155	340.5255	2019-03-03	6	March	Sunday	13:23:00	Credit ca
		Yangon	Member	Male	Health and beauty	58.22	8	GOOD	23.2880	489.0480	2019-01-27	6	January	Sunday	20:33:00	Ewallet
		Yangon	Normal	Male	Sports and travel	86.31	7	GOOD	30.2085	634.3785	2019-02-08	4	February	Friday	10:37:00	Ewallet
		Naypyitaw	Normal	Male	Electronic accessories	85.39	7	GOOD	29.8865	627.6165	2019-03-25	0	March	Monday	18:30:00	Ewallet
		Yangon	Member	Female	Electronic accessories	68.84	6	GOOD	20.6520	433.6920	2019-02-25	0	February	Monday	14:36:00	Ewallet
		Naypyitaw	Normal	Female	Home and lifestyle	73.56	10	GOOD	36.7800	772.3800	2019-02-24	6	February	Sunday	11:38:00	Ewallet
		Yangon	Member	Female	Health and beauty	36.26	2	BAD	3.6260	76.1460	2019-01-10	3	January	Thursday	17:15:00	Credit ca
		Mandalay	Member	Female	Food and beverages	54.84	3	BAD	8.2260	172.7460	2019-02-20	2	February	Wednesday	13:27:00	Credit ca

# Summary

WALMART is the World's Largest Company By Revenue





# Thank You

JAIMIN SHAH