

SQL PROJECT

This Project is based on the international breweries data recorded for a duration of three years. I performed data querying and analysis using SQL (PostgreSQL). This was in order to aid better decision making that will lead to profit maximization and reduce loss to the lowest minimum.

The dataset for this project can be found [here](#)

I imported the dataset into postgresQL and performed analyses based on the following questions.

Session A

PROFIT ANALYSIS

1. Within the space of the last three years, what was the profit worth of the breweries, inclusive of the anglophone and the francophone territories?
2. Compare the total profit between these two territories in order for the territory manager, Mr. Stone to make a strategic decision that will aid profit maximization in 2020.
3. What country generated the highest profit in 2019
4. Help him find the year with the highest profit.
5. Which month in the three years was the least profit generated?
6. What was the minimum profit in the month of December 2018?
7. Compare the profit for each of the months in 2019
8. Which particular brand generated the highest profit in Senegal?

SECTION B

BRAND ANALYSIS

1. Within the last two years, the brand manager wants to know the top three brands consumed in the francophone countries
2. Find out the top two choice of consumer brands in Ghana
3. Find out the details of beers consumed in the past three years in the most oil reached country in West Africa.
4. Favorites malt brand in Anglophone region between 2018 and 2019
5. Which brands sold the highest in 2019 in Nigeria?
6. Favorites brand in South_South region in Nigeria
7. Bear consumption in Nigeria

SESSION A: PROFIT ANALYSIS

QUESTION 1: Within the space of the last three years, what was the profit worth of the breweries, inclusive of the anglophone and the francophone territories?

Query Editor		Query History	
1	SELECT SUM(profit)		
2	FROM csv_table		
Data Output		Explain	Messages
	sum bigint		
1	211174840		

ANSWER: The profit worth of the breweries, inclusive of the anglophone and the francophone territories was 211,174,840

QUESTION 2: Compare the total profit between these two territories in order for the territory manager, Mr. Stone to make a strategic decision that will aid profit maximization in 2020.

Query Editor		Query History	
1	SELECT SUM(profit) AS total_profit,		
2	CASE		
3	WHEN countries IN ('Nigeria', 'Ghana') THEN 'anglophone'		
4	ELSE 'francophone'		
5	END AS territories		
6	FROM csv_table		
7	GROUP BY territories;		
8			
Data Output		Explain	Messages
	total_profit bigint	territories text	
1	84778520	anglophone	
2	126396320	francophone	

ANSWER: The total profit between these two territories were 84,778,520 and 126,396,320 for anglophone and francophone respectively.

QUESTION 3: What country generated the highest profit in 2019?

```
Query Editor    Query History

1  SELECT countries, SUM (profit) profit_total
2  FROM csv_table
3  WHERE years = 2019
4  GROUP BY countries
5  ORDER BY SUM(profit) DESC LIMIT 1;

Data Output    Explain    Messages    Notifications

countries      profit_total
character varying (50)  bigint
1  Ghana      14288140
```

ANSWER: In 2019, Ghana generated the highest profit with a sum profit of 14,288,140.

QUESTION 4: Help him find the year with the highest profit.

```
Query Editor    Query History

1  SELECT years, SUM (profit) profit_total
2  FROM csv_table
3  GROUP BY years
4  ORDER BY SUM(profit) DESC LIMIT 1;

Data Output    Explain    Messages    Notifications

years integer  profit_total bigint
1  2017  77006640
```

QUESTION 5: Which month in the three years was the least profit generated?

```
Query Editor    Query History

1  SELECT months, years, SUM (profit) profit_total
2  FROM csv_table
3  GROUP BY months, years
4  ORDER BY SUM(profit) ASC LIMIT 1;

Data Output    Explain    Messages    Notifications

months      years      profit_total
character varying (50)  integer  bigint
1 February      2019      2733760
```

QUESTION 6: What was the minimum profit in the month of December 2018?

Query Editor		Query History	
1	SELECT months, MIN (profit) AS min_profit		
2	FROM csv_table		
3	WHERE months = 'December' AND years = '2018'		
4	GROUP BY months		
5	ORDER BY MIN (profit);		
6			

Data Output		Explain	Messages	Notifications
	months		min_profit	
	character varying (50)		integer	
1	December		38150	

QUESTION 7: Compare the profit for each of the months in 2019.

Query Editor		Query History	
1	SELECT months, SUM (profit) profit_total		
2	FROM csv_table		
3	WHERE years = 2019		
4	GROUP BY months		
5	ORDER BY SUM (profit) DESC;		

Data Output		Explain	Messages	Notifications
	months		profit_total	
	character varying (50)		bigint	
1	January		6526320	
2	August		5965600	
3	July		5890680	
4	April		5702940	
5	November		5351220	
6	June		5338160	
7	May		5146080	
8	March		5061240	
9	October		4441740	

QUESTION 8: Which particular brand generated the highest profit in Senegal?

Query Editor		Query History	
1	SELECT brands, SUM (profit) profit_total		
2	FROM csv_table		
3	WHERE countries = 'Senegal'		
4	GROUP BY brands		
5	ORDER BY SUM (profit) DESC LIMIT 1;		

Data Output		Explain	Messages	Notifications
	brands		profit_total	
	character varying (50)		bigint	
1	castle lite		14025960	

SESSION B: BRAND ANALYSIS

QUESTION 1: Within the last two years, the brand manager wants to know the top three brands consumed in the francophone countries.

Query Editor

Query History

1

SELECT brands, SUM (quantity) quantity_total

2

FROM csv_table

3

WHERE years IN(2018,2019) AND countries IN('Senegal', 'Benin', 'Togo')

4

GROUP BY brands

5

ORDER BY SUM (quantity) DESC LIMIT 3;

Data Output

Explain

Messages

Notifications

brands

character varying (50)

quantity_total

bigint

1

trophy

105798

2

hero

101692

3

eagle lager

101260

QUESTION 2: Find out the top two choice of consumer brands in Ghana.

Query Editor

Query History

1 SELECT brands, SUM (quantity) quantity_total

2 FROM csv_table

3 WHERE countries = 'Ghana'

4 GROUP BY brands

5 ORDER BY SUM (quantity) DESC LIMIT 2;

Data Output

Explain

Messages

Notifications

brands

character varying (50)

quantity_total

bigint

1 eagle lager 51658

2 castle lite 51612

QUESTION 3: Find out the details of beers consumed in the past three years in the most oil rich country in West Africa.

Query Editor

Query History









```
1 SELECT sales_id, brands, plant_cost, unit_price, quantity, cost, profit
2 FROM csv_table
3 WHERE brands NOT LIKE '%malt' AND countries = 'Nigeria';
```

Data Output

Explain

Messages

Notifications

	 sales_id integer 	brands character varying (50) 	plant_cost integer 	unit_price integer 	quantity integer 	cost integer 	profit integer 
1	10102	budweiser	250	500	815	407500	203750
2	10112	hero	150	200	902	180400	45100
3	10117	castle lite	180	450	837	376650	225990
4	10122	trophy	150	200	860	172000	43000
5	10132	eagle lager	170	250	826	206500	66080
6	10137	budweiser	250	500	821	410500	205250
7	10147	hero	150	200	952	190400	47600
8	10152	castle lite	180	450	878	395100	237060
9	10157	trophy	150	200	920	184000	46000
10	10167	eagle lager	170	250	769	192250	61520

QUESTION 4: Favorites malt brand in Anglophone region between 2018 and 2019

Query Editor

Query History

```
1 SELECT brands, SUM (quantity) quantity_total
2 FROM csv_table
3 WHERE (brands LIKE '%malt') AND (countries IN ('Nigeria', 'Ghana')) AND (years IN (2018, 2019))
4 GROUP BY brands
5 ORDER BY SUM (quantity) DESC LIMIT 1;
```

Data Output

Explain

Messages

Notifications

	brands character varying (50)	quantity_total bigint	
1	grand malt	66442	

QUESTION 5: Which brands sold the highest in 2019 in Nigeria?

Query Editor		Query History		
1	SELECT brands, SUM (quantity) quantity_total			
2	FROM csv_table			
3	WHERE countries = 'Nigeria' AND years = 2019			
4	GROUP BY brands			
5	ORDER BY SUM (quantity) DESC LIMIT 1;			
Data Output		Explain	Messages	Notifications
	brands character varying (50)		quantity_total bigint	
1	hero		19244	

QUESTION 6: Favorites brand in South_South region in Nigeria

Query Editor

Query History

```
1 SELECT brands, SUM (quantity) quantity_total
2 FROM csv_table
3 WHERE countries = 'Nigeria' AND region = 'southsouth'
4 GROUP BY brands
5 ORDER BY SUM (quantity) DESC LIMIT 1;
```

Data Output

Explain

Messages

Notifications

	brands	quantity_total
	character varying (50)	bigint
1	eagle lager	9102

QUESTION 7: Beer consumption in Nigeria

Query Editor

Query History

```
1 SELECT brands, SUM (quantity) AS quantity_total
2 FROM csv_table
3 WHERE brands NOT LIKE '%malt' AND countries = 'Nigeria'
4 GROUP BY brands
5 ORDER BY SUM (quantity);
```

Data Output

Explain

Messages

Notifications

	brands	quantity_total
	character varying (50)	bigint
1	castle life	51362
2	trophy	51486
3	hero	51622
4	eagle lager	51744
5	budweiser	52306