SQL CAPSTONE PROJECT

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

```
 9   -- NO 2. Compare the total profit between these two territories in order for the territory manager,
10   --Mr. Stone to make a strategic decision that will aid profit maximization in 2020.
11   SELECT
12     CASE
13         WHEN countries = 'Nigeria' THEN 'Anglophone'
14         WHEN countries = 'Senegal' THEN 'Francophone'
15         WHEN countries = 'Ghana' THEN 'Anglophone'
16         WHEN countries = 'Benin' THEN 'Francophone'
17         WHEN countries = 'Togo' THEN 'Francophone'
18     END AS language_territories,
19     SUM(profit) AS total_profit
20     FROM international_breweries
21     GROUP BY language_territories;
22
```
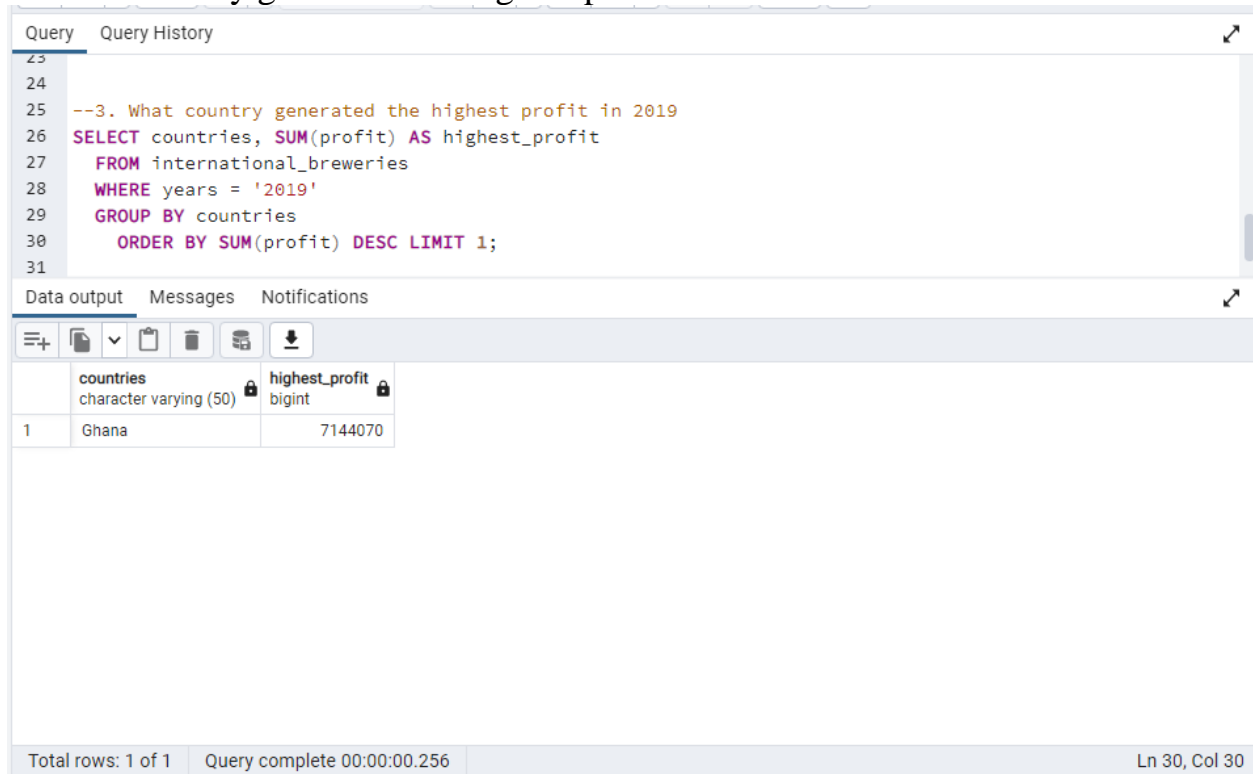
Data output   Messages   Notifications

	language_territories text	total_profit bigint
1	Anglophone	42389260
2	Francophone	63198160

Total rows: 2 of 2   Query complete 00:00:00.377   Ln 9,

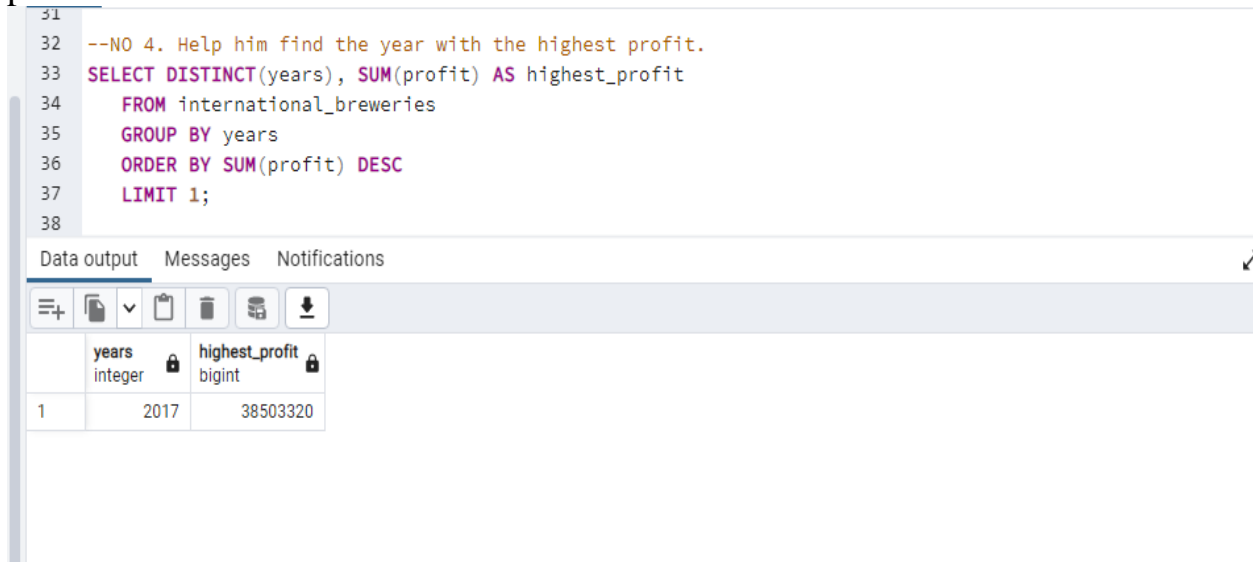# 3. What country generated the highest profit in 2019

```
23
24
25   --3. What country generated the highest profit in 2019
26   SELECT countries, SUM(profit) AS highest_profit
27     FROM international_breweries
28     WHERE years = '2019'
29     GROUP BY countries
30       ORDER BY SUM(profit) DESC LIMIT 1;
31
```

Data output   Messages   Notifications

	countries character varying (50) 🔒	highest_profit 🔒 bigint
1	Ghana	7144070

Total rows: 1 of 1   Query complete 00:00:00.256   Ln 30, Col 30

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

```
31
32   --NO 4. Help him find the year with the highest profit.
33   SELECT DISTINCT(years), SUM(profit) AS highest_profit
34     FROM international_breweries
35     GROUP BY years
36     ORDER BY SUM(profit) DESC
37     LIMIT 1;
38
```

Data output   Messages   Notifications

	years 🔒 integer	highest_profit 🔒 bigint
1	2017	38503320

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

```
38
39
40   --5. Which month in the three years was the least profit generated?
41   SELECT months, SUM(profit) as least_profit
42     FROM international_breweries
43      GROUP BY months
44     ORDER BY SUM(profit) ASC
45     LIMIT 1;
46
47
48   |
```

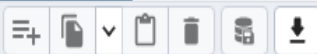Data output   Messages   Notifications

months character varying (50)	least_profit bigint
1	April	8573830

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

```
47
48    --6. What was the minimum profit in the month of December 2018?
49    SELECT months, MIN(profit) AS minimum_profit
50        FROM international_breweries
51        WHERE months = 'December'
52        AND years = '2018'
53        GROUP BY months;
54
55
56    |
```

Data output   Messages   Notifications

	months character varying (50)	minimum_profit integer
1	December	38150

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

```
56
57   -- NO 7. Compare the profit for each of the months in 2019
58   SELECT DISTINCT(months), SUM(profit) AS profit
59     FROM international_breweries
60     WHERE years = 2019
61     GROUP BY (months)
62     ORDER BY SUM(profit) DESC;
63
64
```

Data output   Messages   Notifications

	months character varying (50)	profit bigint
5	November	2675610
6	June	2669080
7	May	2573040
8	March	2530620
9	October	2220870
10	December	2048780
11	September	1892600
12	February	1366880

Total rows: 12 of 12   Query complete 00:00:00.334   Ln 64, Col 3

8. Which particular brand generated the highest profit in Senegal?

```
66
67   --NO 8. Which particular brand generated the highest profit in Senegal?
68   SELECT brands, SUM(profit) AS highest_profit
69     FROM international_breweries
70     WHERE countries = 'Senegal'
71     GROUP BY brands
72     ORDER BY SUM(profit) DESC
73     LIMIT 1;
74
```

Data output   Messages   Notifications

	brands character varying (50)	highest_profit bigint
1	castle lite	7012980

Total rows: 1 of 1   Query complete 00:00:00.361

Session B
BRAND ANALYSIS
1. Within the last two years, the brand manager wants to know the top three brands consumed in the francophone countries

```
1   --Session B
2   --BRAND ANALYSIS
3   --1. Within the last two years, the brand manager wants to know the top three brands consumed
4   --in the francophone countries.
5   SELECT brands, SUM (quantity)  AS consumption
6       FROM
7         international_breweries
8         WHERE countries IN ('Senegal','Togo', 'Benin')
9         AND years IN ('2018', '2019')
10        GROUP BY brands
11     ORDER BY SUM(quantity) DESC
12     LIMIT 3;
```

Data output   Messages   Notifications

	brands character varying (50)	consumption bigint
1	trophy	52899
2	hero	50846
3	eagle lager	50630

Total rows: 3 of 3   Query complete 00:00:00.423

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

```
14
15   --2. Find out the top two choice of consumer brands in Ghana
16   SELECT brands, SUM (quantity) AS consumer_brandchoice
17     FROM international_breweries
18     WHERE countries = 'Ghana'
19     GROUP BY brands
20     ORDER BY SUM(quantity) DESC
21     LIMIT 2;
22
23
24
25   |
```

Data output   Messages   Notifications

	brands character varying (50) 🔒	consumer_brandchoice bigint 🔒
1	eagle lager	25829
2	castle lite	25806

Total rows: 2 of 2   Query complete 00:00:00.344

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

```
24
25   --3. Find out the details of beers consumed in the past three years
26   --in the most oil reached country in West Africa.
27   SELECT brands,region, SUM(quantity) AS quantities_consumed
28        FROM international_breweries
29        WHERE countries = 'Nigeria'
30        AND years IN ('2017', '2018', '2019')
31        AND brands NOT LIKE '%malt%'
32        GROUP BY brands, region
33        ORDER BY SUM (quantity); |
34
```

Data output   Messages   Notifications

	brands character varying (50)	region character varying (50)	quantities_consumed bigint
1	hero	northwest	3958
2	castle lite	northcentral	3993
3	trophy	west	4087
4	budweiser	Southeast	4113
5	hero	west	4116
6	eagle lager	northwest	4136
7	eagle lager	west	4189

Total rows: 30 of 30   Query complete 00:00:00.587

4. Favorites malt brand in Anglophone region between 2018 and 2019

```
1   --4. Favorites malt brand in Anglophone region between 2018 and 2019
2   SELECT brands, SUM (quantity) AS favourite_malt
3       FROM international_breweries
4     WHERE brands LIKE '%malt%'
5     AND countries IN ('Nigeria', 'Ghana')
6     AND years BETWEEN '2018' AND '2019'
7     GROUP BY brands
8     ORDER BY SUM(quantity) DESC;
9
10
11
```

Data output   Messages   Notifications

	brands character varying (50)	favourite_malt bigint
1	grand malt	33221
2	beta malt	32118

Total rows: 2 of 2   Query complete 00:00:00.862

5. Which brands sold the highest in 2019 in Nigeria?

```
      CROOT DT DTGHGO
8       ORDER BY SUM(quantity) DESC;*/
9
10
11
12  --5. Which brands sold the highest in 2019 in Nigeria?
13  SELECT brands, SUM(profit) AS highest_quantity_sold
14       FROM international_breweries
15       WHERE countries = 'Nigeria'
16       AND years = '2019'
17       GROUP BY brands
18       ORDER BY SUM(profit) DESC
19       LIMIT 4;
```

Data output   Messages   Notifications

	brands character varying (50)	highest_quantity_sold bigint
1	budweiser	1372500
2	castle lite	914760
3	eagle lager	672080
4	beta malt	587230

6. Favorites brand in South_South region in Nigeria

```sql
21  --6. Favorites brand in South_South region in Nigeria
22  SELECT brands, SUM(quantity) AS favorites_brand
23      FROM international_breweries
24      WHERE region = 'southsouth'
25      AND countries = 'Nigeria'
26      GROUP BY 1
27      ORDER BY 2 DESC
28      LIMIT 1;
29
30
31
32
```

Data output   Messages   Notifications

brands character varying (50)	favorites_brand bigint
1	eagle lager	4551

7. Bear consumption in Nigeria

```sql
31  --7. Bear consumption in Nigeria
32  SELECT brands, SUM(quantity) As beer_consumption
33      FROM international_breweries
34      WHERE countries = 'Nigeria'
35      AND brands NOT LIKE '%malt%'
36      GROUP BY 1
37      ORDER BY 2 DESC;
38
39
40
41
42
```

Data output   Messages   Notifications

	brands character varying (50)	beer_consumption bigint
1	budweiser	26153
2	eagle lager	25872
3	hero	25811
4	trophy	25743
5	castle lite	25681

8. Level of consumption of Budweiser in the regions in Nigeria

```
40  --8. Level of consumption of Budweiser in the regions in Nigeria
41  SELECT region, SUM(quantity) AS consumption_level
42      FROM international_breweries
43      WHERE brands = 'budweiser'
44      AND countries = 'Nigeria'
45      GROUP BY 1
46      ORDER BY 2;
47
48
```

Data output   Messages   Notifications

	region character varying (50)	consumption_level bigint
1	Southeast	4113
2	northwest	4274
3	northeast	4320
4	southsouth	4328
5	northcentral	4498
6	west	4620

Total rows: 6 of 6   Query complete 00:00:00.670

9. Level of consumption of Budweiser in the regions in Nigeria in 2019 (Decision on Promo)

```
49  --9. Level of consumption of Budweiser in the regions in Nigeria in 2019 (Decision on Promo)
50  SELECT region, SUM(quantity) AS consumption_level
51     FROM international_breweries
52     WHERE brands = 'budweiser'
53     AND countries = 'Nigeria'
54     AND years = '2019'
55     GROUP BY 1
56     ORDER BY 2 DESC;
57
```

Data output   Messages   Notifications

	region character varying (50)	consumption_level bigint
1	Southeast	1821
2	northeast	990
3	northwest	948
4	west	884
5	southsouth	847

Total rows: 5 of 5   Query complete 00:00:00.774   Ln

Session C
COUNTRIES ANALYSIS
1. Country with the highest consumption of beer.

Query   Query History

```
1   --Session C
2   --COUNTRIES ANALYSIS
3   --1. Country with the highest consumption of beer.
4   SELECT DISTINCT(countries), SUM(quantity) AS highest_consumption
5       FROM international_breweries
6       WHERE brands NOT LIKE '%malt%'
7       GROUP BY countries
8       ORDER BY SUM(quantity) DESC
9       LIMIT 1;
10
11
12
```

Data output   Messages   Notifications

	countries character varying (50)	highest_consumption bigint
1	Senegal	129875

Total rows: 1 of 1   Query complete 00:00:00.382

2. Highest sales personnel of Budweiser in Senegal

```
12   --2. Highest sales personnel of Budweiser in Senegal
13   SELECT sales_rep, SUM(profit) AS sales
14     FROM international_breweries
15   WHERE brands = 'budweiser'
16     AND countries = 'Senegal'
17     GROUP BY sales_rep
18   ORDER BY SUM(profit) DESC
19   LIMIT 3;
20
21
22   |
```

Data output   Messages   Notifications

	sales_rep character varying (50) 🔒	sales bigint 🔒
1	Jones	1479250
2	Sorvino	1061500
3	Andrews	834000

3. Country with the highest profit of the fourth quarter in 2019

```
22   --3. Country with the highest profit of the fourth quarter in 2019
23   SELECT countries, SUM(profit) AS highest_profit
24      FROM international_breweries
25      WHERE years = '2019'
26      AND months IN ('October', 'November', 'December')
27      GROUP BY countries
28      ORDER BY SUM(profit) DESC
29      LIMIT 1;
30
31
32
33
```

Data output   Messages   Notifications

	countries character varying (50)	highest_profit bigint
1	Ghana	2045230