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INTERNATIONAL
BREWERIES PROJECT 1

1. Write an SQL query to fetch “SALES_REP” from breweries table using the alias name as WORKER_NAME.

SQL CODES:

1

```
SELECT sales_rep AS WORKER_NAME  
FROM breweries;
```

2

```
SELECT DISTINCT sales_rep AS  
WORKER_NAME  
FROM breweries;
```

<u>S/No</u>	<u>Worker name</u>
1	Morgan
2	Jones
3	Gill
4	Sorvino
5	Kivell
6	Thompson
7	Jardine
8	Andrews
9	Smith
10	Parent
11	Howard

EXPLANATION: The table shows the list of all the distinct sales rep in the Breweries dataset and has been re-named as Worker name, in line with SQL code number 2.

2. Write an SQL query to fetch “BRANDS” from breweries table in upper case.

SQL CODES:

1

```
SELECT UPPER (brands) AS BRANDS  
FROM breweries;
```

2

```
SELECT DISTINCT UPPER (brands) AS  
BRANDS  
FROM breweries;
```

S/No	Brands
1	CASTLE LITE
2	TROPHY
3	HERO
4	EAGLE LAGER
5	BUDWEISER
6	GRAND MALT
7	BETA MALT

EXPLANATION: The table shows the list of all the distinct brands in the Breweries dataset and has been fetched in upper case, in line with SQL code number 2.

3: Write an SQL query to print all details from the breweries table; sort the QUANTITY column in Ascending order and the COSTS column in Descending order

SQL CODES:

```
SELECT * FROM breweries ORDER BY quantity ASC, costs DESC;
```

Dashboard Properties SQL Statistics Dependencies Dependents Processes Assignment OH0 Utiva DSF July 2022/postgres@Postgres *

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Query Query History

```
18 -- QUESTION 3: Write an SQL query to print all details from the breweries table; sort the QUANTITY column in As
19
20 SELECT * FROM breweries
21 ORDER BY quantity ASC, costs DESC;
22
```

Data output Messages Notifications

	sales_id integer	sales_rep character varying	emails character varying	brands character varying	plant_cost integer	unit_price integer	quantity integer	costs integer	profit integer	countries character varying	region character varying	months character varying	years integer
1	10109	Morgan	morganny@gmail...	budweiser	250	500	700	350000	175000	Benin	southsouth	September	2019
2	11131	Howard	howard_freeman...	budweiser	250	500	700	350000	175000	Ghana	northeast	November	2019
3	10762	Parent	parentty@uk.com	eagle lager	170	250	700	175000	56000	Nigeria	west	February	2019
4	10472	Howard	howard_freeman...	trophy	150	200	700	140000	35000	Nigeria	northcentral	December	2017
5	10998	Jardine	jard@gmail.com	budweiser	250	500	701	350500	175250	Togo	northwest	October	2018
6	10181	Jardine	jard@gmail.com	eagle lager	170	250	701	175250	56080	Ghana	southsouth	September	2018
7	10822	Jardine	jard@gmail.com	trophy	150	200	701	140200	35050	Nigeria	west	February	2017
8	10347	Kivell	kivel_go@yahoo....	budweiser	250	500	702	351000	175500	Nigeria	Southeast	July	2018
9	10916	Andrews	andy@gmail.com	eagle lager	170	250	702	175500	56160	Ghana	northcentral	December	2017
10	10748	Jardine	jard@gmail.com	eagle lager	170	250	702	175500	56160	Togo	northcentral	December	2018
11	11004	Thompson	thomp@uk.com	trophy	150	200	702	140400	35100	Benin	northwest	April	2018
12	10604	Gill	gillhell@uk.com	grand malt	90	150	702	105300	42120	Benin	northcentral	December	2018
13	10653	Kivell	kivel_go@yahoo....	grand malt	90	150	702	105300	42120	Togo	Southeast	January	2017
14	10579	Howard	howard_freeman...	castle lite	180	450	703	316350	189810	Benin	northeast	November	2017
15	10740	Jones	jone.ai@yahoo.c...	castle lite	180	450	703	316350	189810	Senegal	northwest	April	2019
16	11028	Jones	jone.ai@yahoo.c...	eagle lager	170	250	703	175750	56240	Togo	northwest	April	2017
17	10387	Morgan	morganny@gmail...	grand malt	90	150	703	105450	42180	Nigeria	northeast	November	2017
18	10186	Sorvino	sorvi2000@gmail...	budweiser	250	500	704	352000	176000	Ghana	west	February	2018
19	10214	Thompson	thomp@uk.com	budweiser	250	500	704	352000	176000	Benin	northcentral	June	2018
20	10881	Morgan	morganny@gmail...	eagle lager	170	250	704	176000	56320	Ghana	Southeast	January	2019
21	10360	Andrews	andy@gmail.com	trophy	150	200	704	140800	35200	Senegal	west	August	2019
22	10406	Jardine	jard@gmail.com	hero	150	200	704	140800	35200	Ghana	northcentral	June	2017
23	10323	Morgan	morganny@gmail...	beta malt	80	150	704	105600	49280	Togo	Southeast	July	2019
24	10658	Jones	jone.ai@yahoo.c...	hero	150	200	705	141000	35250	Togo	northcentral	June	2018
25	10709	Kivell	kivel_go@yahoo....	grand malt	90	150	705	105750	42300	Benin	southsouth	September	2019
26	10457	Series	seri2000@gmail...	grand malt	90	150	705	105750	42300	Nigeria	southsouth	September	2018

Total rows: 1000 of 1047 Query complete 00:00:00.295 Ln 20, Col 1

EXPLANATION: The table in the screenshot above shows the list of all the columns in the Breweries dataset with the quantity and costs columns ordered in ascending and descending order respectively.

4: Write an SQL query to print the profit made from two BRANDS, “trophy” and “eagle” in the first quarter of 2019

SQL CODES:

```
SELECT brands, SUM(profit)
FROM breweries
WHERE brands IN ('trophy','eagle lager')
AND years = 2019
AND months IN
('January','February','March')
GROUP BY brands;
```

S/No	BRANDS	SUM
1	trophy	428800
2	eagle lager	984160



EXPLANATION: The table shows the illustration shows the sum of profit made from the two brands in the first quarter of 2019 with Trophy recording 428,800 and Eagle Lager with 984,160. The Pie Chart shows the percentage profit performance of both brands

5: Write a query that reduces the cost of the trophy brand by 2%

SQL CODES:

1: SELECT brands, costs, costs - (costs * 2.0/100.0) AS Percentage_discount

FROM breweries

WHERE brands = 'trophy';

OR

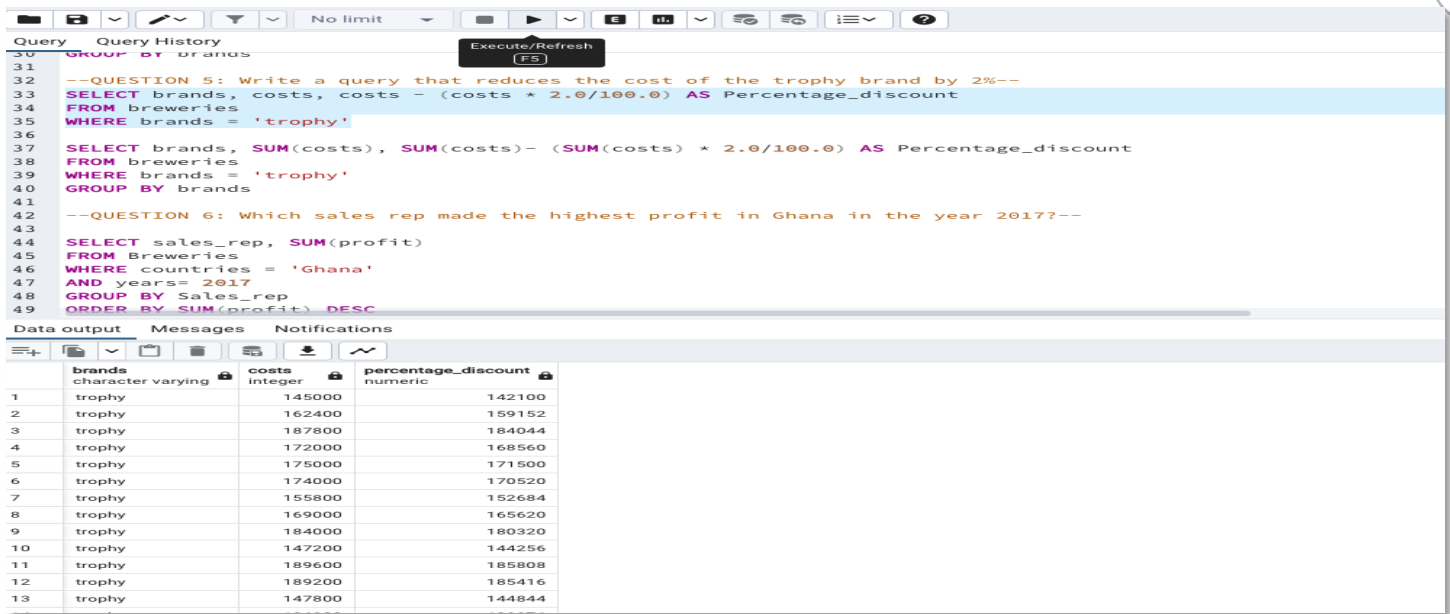
2: SELECT brands, SUM(costs),
SUM(costs)- (SUM(costs) * 2.0/100.0) AS
Percentage_discount

FROM breweries

WHERE brands = 'trophy'

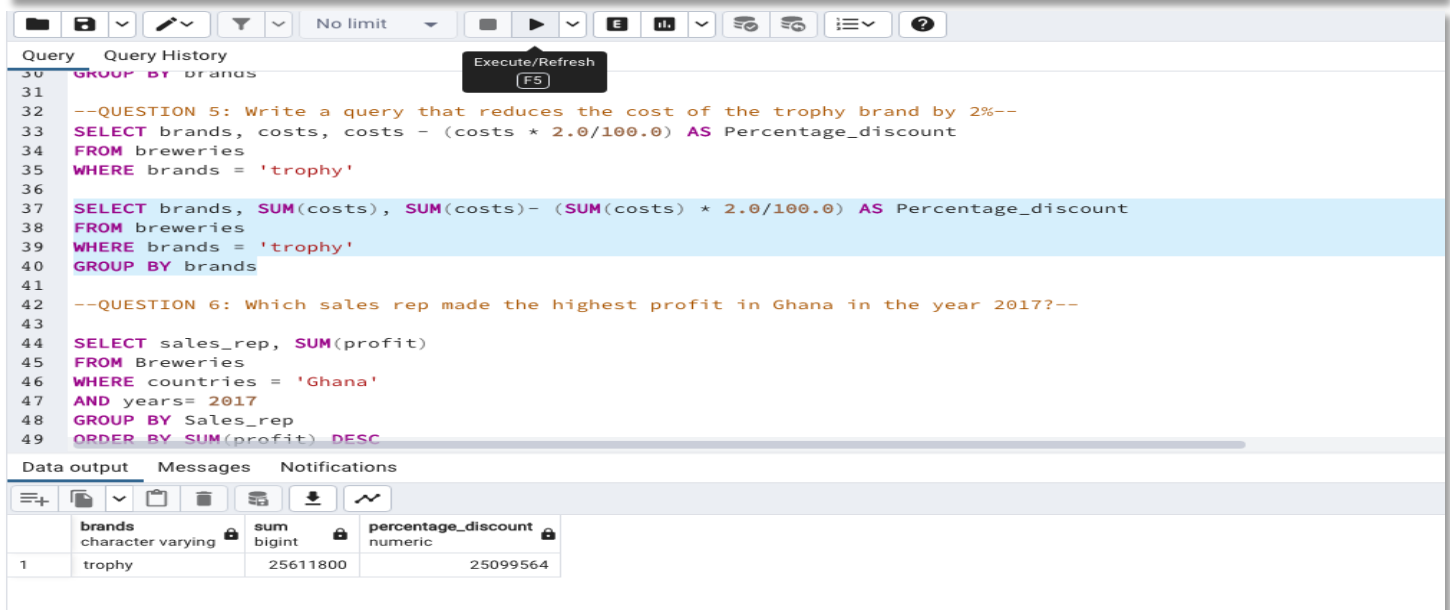
GROUP BY brands;

1



brands	costs	percentage_discount
trophy	145000	142100
trophy	162400	159152
trophy	187800	184044
trophy	172000	168560
trophy	175000	171500
trophy	174000	170520
trophy	155800	152684
trophy	169000	165620
trophy	184000	180320
trophy	147200	144256
trophy	189600	185808
trophy	189200	185416
trophy	147800	144844

2



brands	sum	percentage_discount
trophy	25611800	25099564

EXPLANATION: The table in screenshot 1 shows the costs and resultant percentage discount costs of Trophy brand after the cost has been reduced by 2% in line with SQL code 1.

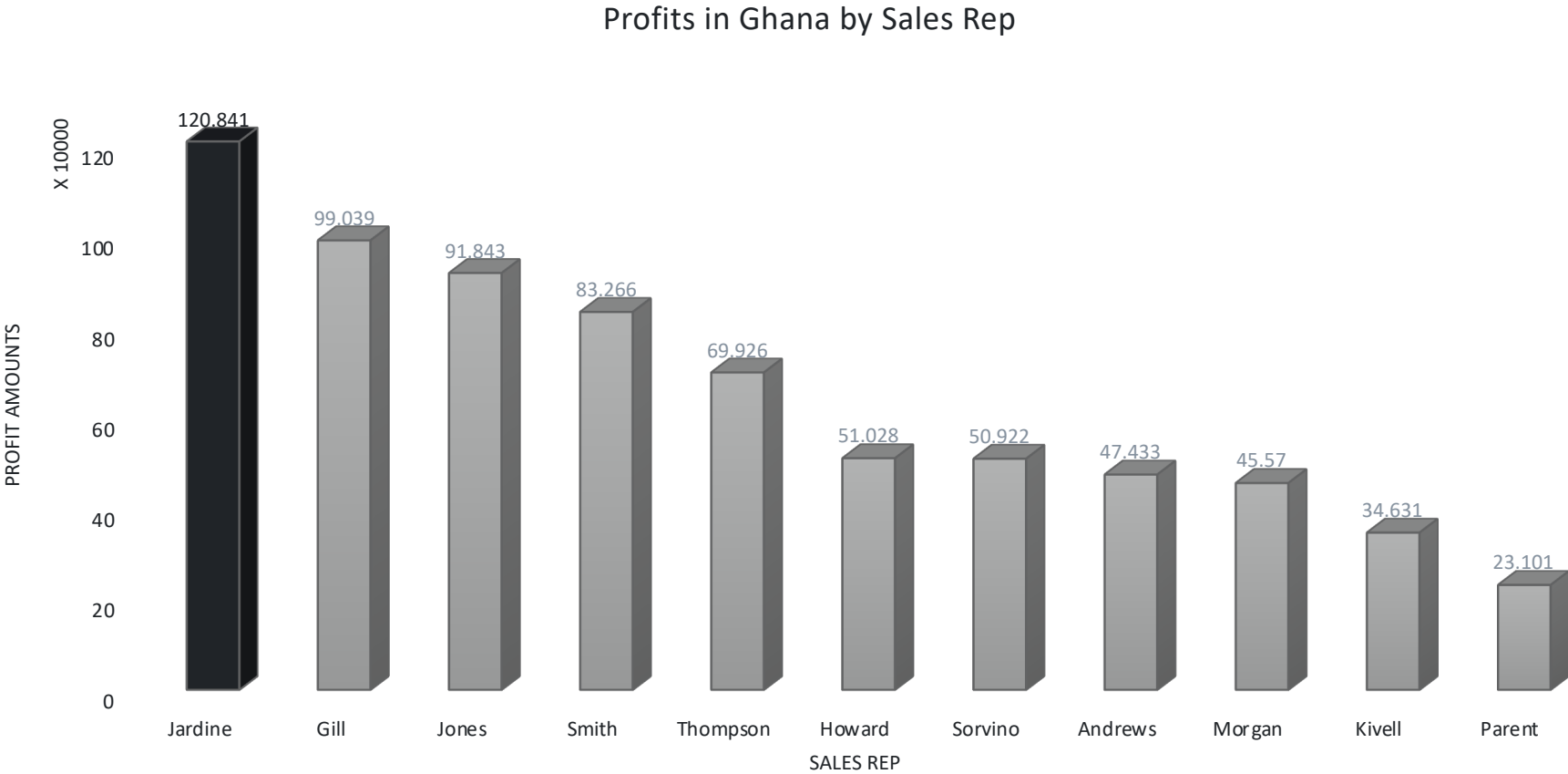
The table in screenshot 2 shows the sum of all cost made of the Trophy brand and percentage discount cost after the cost has been reduced by 2% in line with SQL code number 2.

6: Which sales rep made the highest profit in Ghana in the year 2017?

SQL CODES:

```
SELECT sales_rep, SUM(profit) FROM Breweries WHERE countries = 'Ghana'
AND years= 2017 GROUP BY Sales_rep ORDER BY SUM(profit) DESC LIMIT 1;
```

S/No	Sales_Rep	Sum of Profits
1	Jardine	1208410
2	Gill	990390
3	Jones	918430
4	Smith	832660
5	Thompson	699260
6	Howard	510280
7	Sorvino	509220
8	Andrews	474330
9	Morgan	455700
10	Kivell	346310
11	Parent	231010



EXPLANATION: The table shows the list of all the distinct sales rep in the Breweries dataset from Ghana and the sum of their profits arranged in Descending Order, Enabling us see the Sales rep with the highest profit (Jardine) at number 1. The Graph on the side also visualizes each Sales reps performance, singling out the most profitable sales rep in a different color. The last line of the code (LIMIT 1) will retain only the first result line of the table and hence will not need to visualization for comparison with other Sales reps

7: What region recorded the lowest quantity of goods in the last quarter of every year?

SQL CODES:

```
SELECT region, SUM(quantity)
FROM breweries
WHERE months IN
('October','November','December')
GROUP BY region
ORDER BY SUM (quantity) ASC
LIMIT 1;
```

<u>S/No</u>	<u>Region</u>	<u>Quantity of Goods</u>
1	northcentral	73538
2	northwest	73951
3	northeast	74120

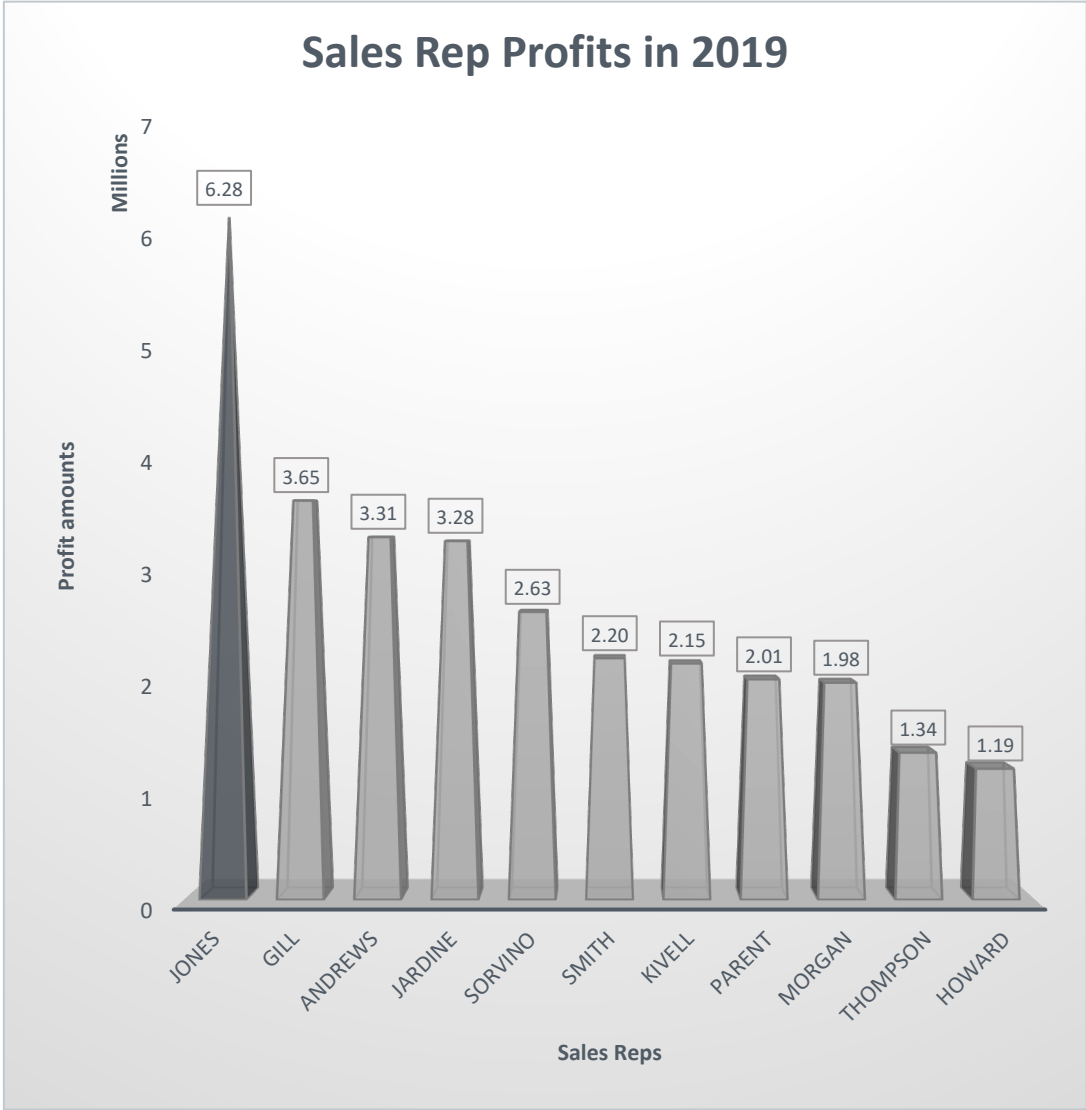


EXPLANATION: The table shows the regional distribution of Quantity of Goods by the final quarter of the years present tin the data set in ascending order. The North central regions records the lowest quantity of Goods. The table is visualized in the chart also depicts this with a different color for the Northcentral region. The last line of the code (LIMIT 1) will retain only the first result line of the table and hence will not need to visualization for comparison with other regions

8: The Breweries company has a yearly tradition of promoting the sales_rep who makes the highest profit in the year. Who deserves this promotion in 2019?

```
SQL CODES:
SELECT sales_rep, SUM(profit)
AS highest_profit
FROM breweries
WHERE years = 2019
GROUP BY Sales_rep
ORDER BY SUM(profit) DESC
LIMIT 1;
```

S/No	Sales Rep	Profit Amount
1	Jones	6282240
2	Gill	3650570
3	Andrews	3314410
4	Jardine	3277600
5	Sorvino	2626640
6	Smith	2201640
7	Kivell	2152910
8	Parent	2008060
9	Morgan	1977070
10	Thompson	1337430
11	Howard	1191680



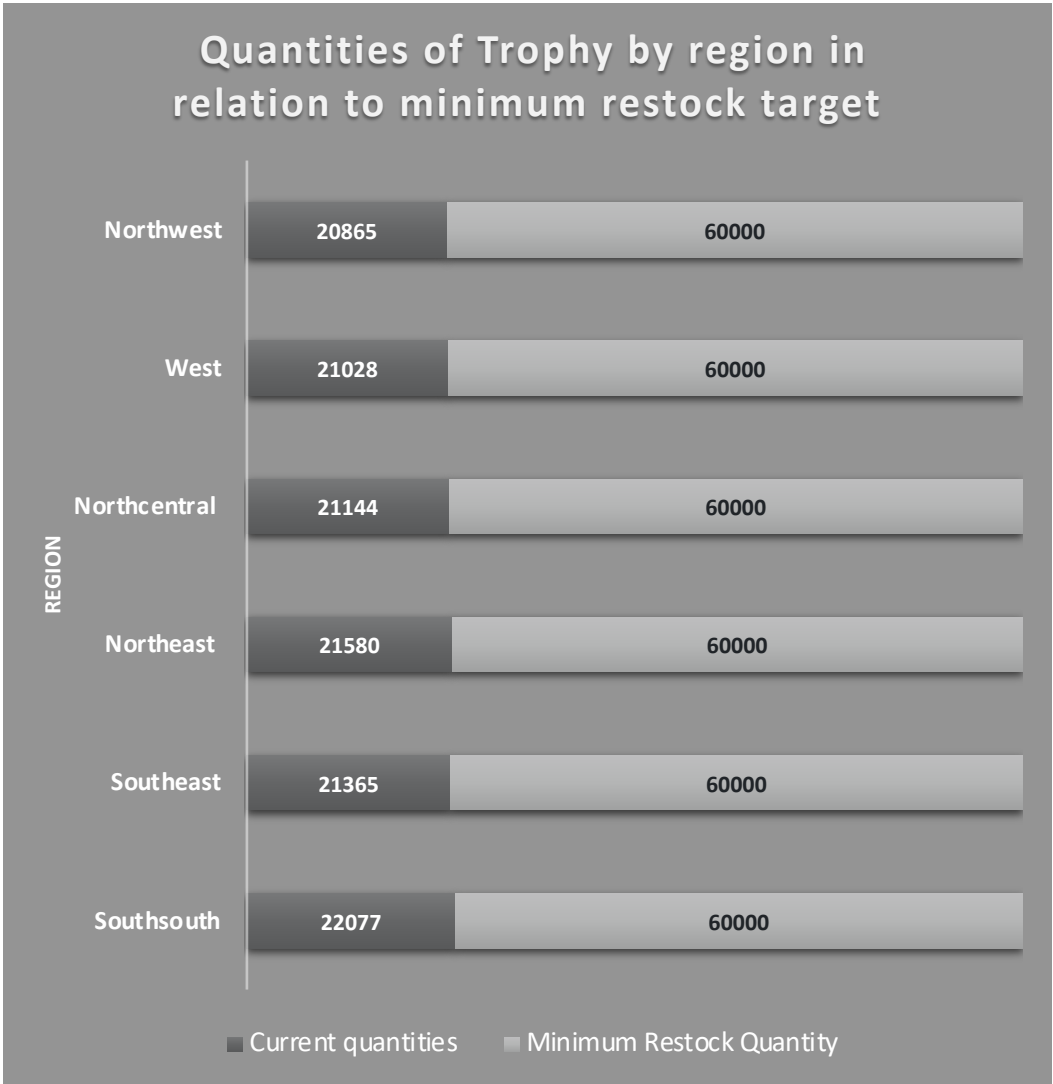
EXPLANATION: The table shows the list of Sales Reps and their profit amounts in 2019 in descending order. The sales rep with the highest profit for the year 2019 deserving the promotion is Jones. The table is visualized in the chart also depicts this with a different color for Jones. The last line of the code (LIMIT 1) will retain only the first result line of the table and hence will not need to visualization for comparison with other sales reps

9: Regions with quantities of trophy which are less than 60000, need to be restocked. 10¹⁰
What regions do we restock with the trophy brand?

SQL CODES:

```
SELECT region, SUM(quantity),  
brands  
FROM Breweries  
WHERE brands = 'trophy'  
GROUP BY region, brands  
HAVING SUM(quantity)<60000;
```

Region	Current quantities of Trophy
Southsouth	22077
Southeast	21365
Northeast	21580
Northcentral	21144
West	21028
Northwest	20865



EXPLANATION: The table shows the list of all the regions in the Breweries dataset and their current quantities of Trophy < 60,000 to enable plans for restock, The graph shows the same in relation to the restock threshold of 60,000 to enable us visualize how far off from the 60,000 targets the regions are.

T H A N K

Y O U