

This project is based on Germany and Poland pharmacy sales for the year 2017 – 2020. I used PostgreSQL to import, clean, manipulate and derive meaningful insight from the dataset.

### CREATE DATABASE Pharmacy

Database: pharmacy

Owner: postgres

Comment:

Buttons: Close, Reset, Save

### CREATE TABLE product\_sales

```
1 CREATE TABLE product_sales(Distributor varchar(50),
2 Customer_Name varchar(200),
3 City varchar(50),
4 Country varchar(20),
5 Latitude float,
6 Longitude float,
7 Channel varchar(50),
8 Sub_channel varchar(50),
9 Product_Name varchar(50),
10 Product_Class varchar(50),
11 Quantity int,
12 Price int,
13 Sales int,
14 Month varchar(20),
15 Year int,
16 Name_of_Sales_Rep varchar(50),
17 Manager varchar(50),
18 Sales_Team varchar(10)
19 );
```

Query returned successfully in 117 msec.

### Import the data from csv format to PostgreSQL

Import/Export: Import

File Info

Filename: C:\Users\pc\Documents\BI CHALLENGE\archive\pharmacy.csv

Format: CSV

Encoding: ISO\_8859\_5

Miscellaneous

OID: No

Header: Yes

Delimiter: ,

Buttons: Cancel, OK

### Display the product\_sales columns details

```
1 SELECT *
2 FROM product_sales;
```

	distributor	customer_name	city	country	latitude	longitude
1	Gottlieb-Cruickshank	Zieme, Doyle and Kunze	Lublin	Poland	51.2333	22.5667
2	Gottlieb-Cruickshank	Feest PLC	Twiecle	Poland	53.4167	18.4333
3	Gottlieb-Cruickshank	Medhurst Beer Pharmaceutical Limited	Rybnik	Poland	50.0833	18.1
4	Gottlieb-Cruickshank	Barton Ltd Pharma Plc	Czeladz	Poland	50.3333	19.0833
5	Gottlieb-Cruickshank	Keeling LLC Pharmacy	Olstyn	Poland	53.78	20.4944
6	Gottlieb-Cruickshank	Rumie-Marquardt Pharmaceutical Ltd	Olecko	Poland	54.0333	22.1
7	Gottlieb-Cruickshank	Blick, Pacocha and Schowalter	Inowroc?aw	Poland	52.7958	18.2611
8	Gottlieb-Cruickshank	Leuschke PLC Pharmacy	Ciechanow	Poland	52.8817	20.6109
9	Gottlieb-Cruickshank	Miller-Setterfield Pharma Plc	Nidzica	Poland	53.3583	20.4211
10	Gottlieb-Cruickshank	Bashirian-Kassutke Pharma Plc	Krakow	Poland	50.0611	19.9372
11	Gottlieb-Cruickshank	Wolff Group Pharm	Gubin	Poland	51.95	14.7333

## Clean the city name

pharmacy/postgres@PostgreSQL 14 \*

```
1 /*Clean the city name*/
2 UPDATE product_sales
3 SET city = REPLACE(city,'?',',')
4 WHERE city LIKE '%?' OR city LIKE '%%' OR city LIKE '%%?%'
5
```

Data Output Explain Messages Notifications

distributor	customer_name	city	country	latitude	longitude
character varying (50)	character varying (200)	character varying (50)	character varying (20)	double precision	double precision
1	Gottlieb-Cruickshank	Zieme, Doyle and Kunze	Lublin	Poland	51.2333
2	Gottlieb-Cruickshank	Medhurst-Beer Pharmaceutical Limited	Rybnik	Poland	50.0833
3	Gottlieb-Cruickshank	Keeling LLC Pharmacy	Olazyn	Poland	53.78
4	Gottlieb-Cruickshank	Runte-Marquardt Pharmaceutical Ltd	Olecko	Poland	54.0333
5	Gottlieb-Cruickshank	Leuschke PLC Pharmacy	Ciechanów	Poland	52.8817
6	Gottlieb-Cruickshank	Miller-Satterfield Pharma Plc	Nidzica	Poland	53.3583
7	Gottlieb-Cruickshank	Bashirian-Kassulke Pharma Plc	Kraków	Poland	50.0614
8	Gottlieb-Cruickshank	Wolff Group Pharm	Gubin	Poland	51.95
9	Gottlieb-Cruickshank	Denesik, Walter and Beatty Pharma Plc	Ostrów Mazowiecka	Poland	52.8
10	Gottlieb-Cruickshank	Breitenberg-Kuhn Pharmacy	Radom	Poland	51.4036
11	Gottlieb-Cruickshank	Block-Romaguera Pharmaceutical Limited	Tarnowski Grzy	Poland	50.48

## Add column QUARTER

pharmacy/postgres@PostgreSQL

```
1 /*Add column QUARTER*/
2 ALTER TABLE product_sales
3 ADD Quarter varchar(2);
4
5
```

Data Output Explain Messages Notifications

ALTER TABLE

Query returned successfully in 125 msec.

## Insert values into column Quarter, accordingly to the year quarter

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```
1 /*Insert values into column Quarter,according to the year quarter*/
2 UPDATE product_sales
3 SET quarter = CASE WHEN month IN ('January','February','March') THEN 'Q1'
4                  WHEN month IN ('April','May','June') THEN 'Q2'
5                  WHEN month IN ('July','August','September') THEN 'Q3'
6                  ELSE 'Q4' END;
7
8
9
```

Data Output Explain Messages Notifications

uct_class	quantity	price	sales	month	year	name_of_sales_rep	manager	sales_team	quarter
acter varying (50)	integer	integer	integer	character varying (20)	integer	character varying (50)	character varying (50)	character varying (10)	character varying (5)
d Stabilizers	4	368	1472	January	2018	Mary Gerrard	Brittany Bold	Delta	Q1
iotics	30	66	1980	January	2018	Steve Pepple	Tracy Banks	Bravo	Q1
gesics	20	458	9160	January	2018	Anne Wu	Brittany Bold	Delta	Q1
d Stabilizers	5	123	615	January	2018	Thompson Crawford	James Goodwill	Alfa	Q1
d Stabilizers	5	742	3710	January	2018	Mary Gerrard	Brittany Bold	Delta	Q1
d Stabilizers	4	551	2204	January	2018	Stella Given	Alisha Cordwell	Charlie	Q1
gesics	10	243	2430	January	2018	Morris Garcia	Tracy Banks	Bravo	Q1
d Stabilizers	35	762	2670	January	2018	Erica Jones	James Goodwill	Alfa	Q1
ceptics	4	249	996	January	2018	Abigail Thompson	Tracy Banks	Bravo	Q1
d Stabilizers	5	785	3925	January	2018	Abigail Thompson	Tracy Banks	Bravo	Q1
iatrics	7	487	3409	January	2018	Anne Wu	Brittany Bold	Delta	Q1

## Which customer has the pharmacy generated highest sales from?

pharmacy/postgres@PostgreSQL

```
1 /*Which customer has the pharmacy generated highest sales from*/
2 SELECT DISTINCT customer_name,SUM(sales) AS total_sales
3 FROM product_sales
4 GROUP BY 1
5 ORDER BY 2 DESC;
6
7
8
9
```

Data Output Explain Messages Notifications

customer_name	total_sales	
character varying (200)	bigint	
1	Mraz-Kutch Pharma Plc	96374052
2	Parker, Green and Emmerich Pharma Plc	64938713
3	Zemlak-Witting	56779676
4	Moen, Murazik and Smith Pharm	51084240
5	Mills Inc Pharmaceutical Ltd	46291235
6	Streich PLC	44983496
7	Reichel Inc	44276654
8	Gleichner, Behringer and Morar Pharmaceutical Limited	43922471
9	Romaguera, Moen and Hagens Pharmacy	42519888
10	Torphy, Pfeffer and Jakubowski Pharm	41811911
11	Raynor-Graham	41299869
12	Kuphal, Herzog and Purdy	40932831

Which customer from poland has the pharmacy generated highest sales from?

Query Editor

Query History

1

/\*Which customer from poland has the pharmacy generated highest

2

SELECT DISTINCT customer\_name,SUM(sales) AS total\_sales

3

FROM product\_sales

4

WHERE country = 'Poland'

5

GROUP BY 1

6

ORDER BY 2 DESC;

7

8

9

10

Data Output

Explain

Messages

Notifications

	customer_name character varying (200)	total_sales bigint
1	Doyle-Tillman Pharmaceutical Ltd	7158142
2	Kreiger Inc Pharma Plc	7063000
3	Carter-Conn Pharma Plc	6826260
4	Boyer and Sons Pharmaceutical Limited	6574331
5	Koss Ltd Pharmaceutical Limited	6361234
6	Nader-Gaylord Pharmaceutical Ltd	6200373
7	Balistreri-Watsica Pharmacy	6114088
8	Purdy Ltd Pharmaceutical Limited	5464636
9	Streich PLC Pharmaceutical Limited	5287741
10	Feest-Kshlerin Pharmaceutical Ltd	5283949
11	Nitzsche, Effertz and Maggio Pharmacy	5223760
12	Crist Inc	5137959

Which distributor has the pharmacy generated highest sales from?

Query Editor

Query History

1

/\*Which distributor has the pharmacy generated highest sales from\*/

2

SELECT DISTINCT distributor,SUM(sales) AS total\_sales

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

9

Data Output

Explain

Messages

Notifications

	<div>distributor</div> <div>character varying (50)</div> <div></div>	<div>total_sales</div> <div>bigint</div> <div></div>
1	Gerlach LLC	3581563489
2	Koss	3240860609
3	Erdman	1571790140
4	Kozey-Emmerich	1235117140
5	Romaguera-Fay	445738139
6	Bashirian-Kassulke	349340733
7	Welch-Langworth	263607764
8	Daugherty-Rempel	235141571
9	Beier	150834351
10	Rohan and Sons	144206692
11	Gleason	138618444
12	Stehr-Champlin	128514861

Which country has the pharmacy generated highest sales from?

Query Editor

Query History

```

1  /*Which country has the pharmacy generated highest sales from*/
2  SELECT DISTINCT country,SUM(sales) AS total_sales
3  FROM product_sales
4  GROUP BY 1
5  ORDER BY 2 DESC;
6
7
8
9

```

Data Output

Explain

Messages

Notifications

	country character varying (20)	total_sales bigint
1	Germany	11410697770
2	Poland	681241321

Which city did the pharmacy generate highest sales from?

Query Editor

Query History

```
1 /*Which city has the pharmacy generated highest sales from*/
2 SELECT DISTINCT city,country,SUM(sales) AS total_sales
3 FROM product_sales
4 GROUP BY 1,2
5 ORDER BY 3 DESC;
```

Data Output

Explain

Messages

Notifications

	city character varying (50)	country character varying (20)	total_sales bigint
1	Butzbach	Germany	96374052
2	Baesweiler	Germany	64938713
3	Cuxhaven	Germany	56779676
4	Friedberg	Germany	52439567
5	Altenburg	Germany	51084240
6	Emsdetten	Germany	46291235
7	Bottrop	Germany	44983496
8	Trier	Germany	44276654
9	Freising	Germany	43922471
10	Castrop-Rauxel	Germany	42519888

Which manager has highest sales?

Query Editor

Query History

```

1  /*Which manager has highest sales*/
2  SELECT manager,SUM(sales) AS total_sales
3  FROM product_sales
4  GROUP BY 1
5  ORDER BY 2 DESC;
6
7
8
9

```

Data Output

Explain

Messages

Notifications

	manager character varying (50)	total_sales bigint
1	Britanny Bold	3721886389
2	Alisha Cordwell	2892132575
3	Tracy Banks	2815005494
4	James Goodwill	2662914633

Which product has the highest sales?

Query Editor

Query History

```
1 /*Which pharmacy product has highest sales*/
2 SELECT DISTINCT product_name,SUM(sales) AS total_sales
3 FROM product_sales
4 GROUP BY 1
5 ORDER BY 2 DESC;
```

Data Output

Explain

Messages

Notifications

	product_name character varying (50)	total_sales bigint
1	lonclotide	171584675
2	Tetratanyl	127233890
3	Sumanazole	113954535
4	Betanem	108009525
5	Docsteryl Rivacin	106709094
6	Travoloride	103968540
7	Propratecan	101583900
8	Cephozumab Synmethate	100289280

Which pharmacy product class has highest sales?

Query Editor

Query History

1

2

3

4

5

6

7

8

9

/\*Which pharmacy product class has highest sales\*/

SELECT DISTINCT product\_class,SUM(sales) AS total\_sales

FROM product\_sales

GROUP BY 1

ORDER BY 2 DESC;

Data Output

Explain

Messages

Notifications

product\_class

character varying (50)

total\_sales

bigint

1

Analgesics

2435018947

2

Antiseptics

2288547837

3

Mood Stabilizers

2099699685

4

Antipiretics

1939000996

5

Antibiotics

1801883143

6

Antimalarial

1527788483

Which sales team has highest sales?

Query Editor

Query History

1

/\*Which sales team has highest sales\*/

2

SELECT DISTINCT sales\_team,SUM(sales) AS total\_sales

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

9

Data Output

Explain

Messages

Notifications

sales\_team

character varying (10)

total\_sales

bigint

1

Delta

3721886389

2

Charlie

2892132575

3

Bravo

2815005494

4

Alfa

2662914633

Which sales rep has highest sales?

Query Editor

Query History

1

/\*Which sales rep has highest sales\*/

2

SELECT DISTINCT name\_of\_sales\_rep,SUM(sales) AS total\_sales

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

9

Data Output

Explain

Messages

Notifications

name\_of\_sales\_rep

character varying (50)

total\_sales

bigint

1

Jimmy Grey

1003916602

2

Abigail Thompson

999600334

3

Sheila Stones

980758355

4

Daniel Gates

980465072

5

Anne Wu

939392630

Which channel was more sales generated from?

Query Editor

Query History

1

/\*Which channel has highest sales\*/

2

SELECT DISTINCT channel,SUM(sales) AS total\_sales

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

9

Data Output

Explain

Messages

Notifications

channel

character varying (50)

total\_sales

bigint

1

Pharmacy

6372987918

2

Hospital

5718951173

Which sub\_channel has highest sales?

Query Editor		Query History
1	/*Which sub_channel has highest sales*/	
2	SELECT DISTINCT sub_channel,SUM(sales) AS total_sales	
3	FROM product_sales	
4	GROUP BY 1	
5	ORDER BY 2 DESC;	
6		
7		
8		
9		

Data Output	Explain	Messages	Notifications
sub_channel		total_sales	
character varying (50)		bigint	
1	Retail	3419283205	
2	Government	3131619802	
3	Institution	2953704713	
4	Private	2587331371	

Which month of the 4 years did the pharmacy generate highest sales?

Query Editor		Query History
1	/*Which month of the 4 years did the pharmacy generate highest sales*/	
2	SELECT DISTINCT month,SUM(sales) AS total_sales	
3	FROM product_sales	
4	GROUP BY 1	
5	ORDER BY 2 DESC;	
6		
7		
8		
9		

Data Output	Explain	Messages	Notifications
month		total_sales	
character varying (20)		bigint	
1	August	1227109184	
2	November	1158162801	
3	March	1121139476	
4	June	1087959754	
5	July	1062945313	
6	September	1052318569	
7	February	1000134891	
8	December	994632440	
9	October	990784747	
10	May	890028865	
11	April	821708002	
12	January	685015049	

Which year was more sales generated?

Query Editor		Query History
1	/*Which year has highest sales*/	
2	SELECT DISTINCT year,SUM(sales) AS total_sales	
3	FROM product_sales	
4	GROUP BY 1	
5	ORDER BY 2 DESC;	
6		
7		
8		
9		

Data Output	Explain	Messages	Notifications
year		total_sales	
integer		bigint	
1	2018	3584302526	
2	2019	2995822224	
3	2020	2777435779	
4	2017	2734378562	

Which year did August have the highest sales?

Query Editor

Query History

```
1  /*Which year did August has the highest sales*/
2  SELECT year,month,SUM(sales) AS total_sales
3  FROM product_sales
4  WHERE month IN ('August')
5  GROUP BY 1,2
6  ORDER BY 3 DESC;
7
8
9
10
```

Data Output

Explain

Messages

Notifications

	year integer	month character varying (20)	total_sales bigint
1	2019	August	491484965
2	2018	August	289725087
3	2017	August	236571817
4	2020	August	209327315

Which quarter of the 4 years did the pharmacy generate highest sales?

Query Editor

Query History

```
1  /*Which quarter of the 4 years did the pharmacy generate highest sales*/
2  SELECT quarter,SUM(sales) AS total_sales
3  FROM product_sales
4  GROUP BY 1
5  ORDER BY 2 DESC;
6
7
8
9
```

Data Output

Explain

Messages

Notifications

	quarter character varying (2)	total_sales bigint
1	Q3	3342373066
2	Q4	3143579988
3	Q1	2806289416
4	Q2	2799696621

Which distributor ordered the most product in quantity?

Query Editor

Query History

1

/\*Which distributor ordered the most product in quantity\*/

2

SELECT distributor,SUM(quantity) AS total\_quantity

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

Data Output

Explain

Messages

Notifications

distributor

character varying (50)

total\_quantity

bigint

1

Gerlach LLC

8793318

2

Koss

7772859

3

Erdman

3863829

4

Kozey-Emmerich

2968295

5

Romaguera-Fay

1080038

6

Bashirian-Kassulke

814137

7

Welch-Langworth

612495

8

Daugherty-Rempel

606005

9

Beier

352360

10

Rohan and Sons

346872

Which customer ordered the most product in quantity?

Query Editor

Query History

1

2

3

4

5

6

7

8

/\*Which customer ordered the most product in quantity\*/  
SELECT customer\_name,SUM(quantity) AS total\_quantity  
FROM product\_sales  
GROUP BY 1  
ORDER BY 2 DESC;

Data Output

Explain

Messages

Notifications

customer\_name  
character varying (200)

total\_quantity  
bigint

1

Mraz-Kutch Pharma Plc

178620

2

Parker, Green and Emmerich Pharma Plc

132164

3

Zemlak-Witting

126966

4

Schowalter, Runolfsson and VonRueden Pharmaceutical Limited

123512

5

Langworth, Olson and Satterfield Pharmacy

117067

6

Streich PLC

105726

7

Gleichner, Bahringer and Morar Pharmaceutical Limited

100786

8

Predovic LLC Pharmaceutical Limited

99915

9

Buckridge, Hand and Hyatt Pharmaceutical Ltd

96974

10

Moen, Murazik and Smith Pharm

95490

Which city has the most product ordered in quantity for the 4 years?

Query Editor

Query History

1

/\*Which city has the most product ordered in quantity for the 4 years\*/

2

SELECT city,SUM(quantity) AS total\_quantity

3

FROM product\_sales

4

GROUP BY 1

5

ORDER BY 2 DESC;

6

7

8

Data Output

Explain

Messages

Notifications

	city character varying (50)	total_quantity bigint
1	Butzbach	178620
2	Baesweiler	132164
3	Cuxhaven	126966
4	Friedberg	124808
5	Neuss	123512
6	Meschede	117067
7	Bottrop	105726
8	Freising	100786
9	Ingelheim	99915
10	Bad Neuenahr-Ahrweiler	96974



Which country has the most product ordered in quantity for the 4 years?

Query Editor

Query History

1

2

3

4

5

6

7

8

/\*Which country has the most product ordered in quantity for the 4 years\*/  
SELECT country,SUM(quantity) AS total\_quantity  
FROM product\_sales  
GROUP BY 1  
ORDER BY 2 DESC;

Data Output

Explain

Messages

Notifications

country

character varying (20)

total\_quantity

bigint

1

Germany

27718604

2

Poland

1675037

Which sub\_channel has the most product ordered in quantity?

Query Editor

Query History

1

2

3

4

5

6

7

8

```
/*Which sub_channel has the most product ordered in quantity*/
SELECT sub_channel,SUM(quantity) AS total_quantity
FROM product_sales
GROUP BY 1
ORDER BY 2 DESC;
```

Data Output

Explain

Messages

Notifications

sub\_channel

character varying (50)

total\_quantity

bigint

1

Retail

8257875

2

Government

7695048

3

Institution

7140445




4

Private

6300273

Which channel has the most product ordered in quantity?

Query Editor		Query History	
1	/*Which channel has the most product ordered in quantity*/		
2	SELECT channel,SUM(quantity) AS total_quantity		
3	FROM product_sales		
4	GROUP BY 1		
5	ORDER BY 2 DESC;		
6			
7			
8			

Data Output	Explain	Messages	Notifications
	channel character varying (50) 	total_quantity bigint 	
1	Pharmacy	15398320	
2	Hospital	13995321	

Which product was the most ordered in quantity between 2019-2020?

Query Editor

Query History

```

1  /*Which product was the most ordered in quantity between 2019-2020*/
2  SELECT product_name,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE year BETWEEN 2019 AND 2020
5  GROUP BY 1
6  ORDER BY 2 DESC;|
7
8
9

```

Data Output

Explain

Messages

Notifications

	product_name character varying (50)	total_quantity bigint
1	Tetratanyl	193782
2	Ionclotide	165252
3	Sumanazole	145165
4	Formolovir Amanferon	128612
5	Amavirase	126590
6	Hepavice	119136
7	Antaparin Varizyme	112775
8	Pentastrin	110527
9	Agalsiline	101675
10	Aggretisol	101561

Which product class was the most ordered in quantity between 2019-2020 during Q4?

Query Editor

Query History

```
1 /*Which product class was the most ordered in quantity between 2019-2020 during Q4*/
2 SELECT product_class,SUM(quantity) AS total_quantity
3 FROM product_sales
4 WHERE year IN(2019,2020) AND quarter = 'Q4'
5 GROUP BY 1
6 ORDER BY 2 DESC;
```

Data Output

Explain

Messages

Notifications

	product_class character varying (50)	total_quantity bigint
1	Antimalarial	711320
2	Mood Stabilizers	693666
3	Antiseptics	653002
4	Analgesics	643889
5	Antibiotics	529276
6	Antipiretics	501533

Which month was Mood Stabilizers ordered in quantity between 2019-2020 during Q1?

Query Editor

Query History

```
1  /*Which month was Mood Stabilizers ordered in quantity between 2019-2020 during Q1*/
2  SELECT month,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class LIKE 'M%' AND year IN(2019,2020) AND quarter = 'Q1'
5  GROUP BY 1
6  ORDER BY 2 DESC;
```

Data Output

Explain

Messages

Notifications

month	total_quantity
character varying (20)	bigint
1 March	252237
2 February	213494
3 January	148162

Which year was Antimalarial drugs ordered in high quantity between 2019-2020?

Query Editor

Query History

```

1  /*Which year was Antimalaria drugs ordered in high quantity between 2019-2020*/
2  SELECT month,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class LIKE '%ma%' AND year IN(2019,2020)
5  GROUP BY 1
6  ORDER BY 2 DESC;
7
8
9

```

Data Output

Explain

Messages

Notifications

month	total_quantity
character varying (20)	bigint
1 December	245840
2 October	240495
3 November	224985
4 February	215760
5 July	206618
6 March	200739
7 September	174315
8 June	164049
9 August	156698
10 May	145915

Which quarter was Antimalarial drugs ordered in high quantity between 2019-2020?

Query Editor

Query History

```

1  /*Which quarter was Antimalaria drugs ordered in high quantity between 2019-2020*/
2  SELECT quarter,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class LIKE 'Anti%' AND product_class NOT LIKE '%tics' AND year IN(2019,2020)
5  GROUP BY 1
6  ORDER BY 2 DESC;
7
8
9

```

Data Output

Explain

Messages

Notifications

<div> <div>quarter</div> <div>character varying (2)</div> <div>🔒</div> </div>	<div> <div>total_quantity</div> <div>bigint</div> <div>🔒</div> </div>
1 Q4	711320
2 Q3	537631
3 Q1	516199
4 Q2	426780

Which sales rep has the highest quantity ordered for Antimalarial drugs in Q4 of 2020?

Query Editor

Query History

```

1  /*Which sales rep has the highest quantity ordered for Antimalarial dru
2  SELECT DISTINCT name_of_sales_rep,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class LIKE '%mala%' AND year IN(2020) AND quarter = 'Q4'
5  GROUP BY 1
6  ORDER BY 2 DESC
7  LIMIT 1;
8
9
10

```

Data Output

Explain

Messages

Notifications

	name_of_sales_rep character varying (50)	total_quantity bigint	
1	Stella Given	104960	

Which manager has the highest quantity ordered for Mood Stabilizers drugs in Q4 of the 4 years?

Query Editor

Query History

```

1  /*Which manager has the highest quantity ordered for Mood Stabilizers drugs
2  SELECT DISTINCT manager,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class LIKE 'Mood%' AND quarter = 'Q4'
5  GROUP BY 1
6  ORDER BY 2 DESC
7  LIMIT 1;
8
9
10

```

Data Output

Explain

Messages

Notifications

	manager character varying (50)	total_quantity bigint
1	Britanny Bold	382157

Which sales team has the highest quantity ordered for Mood Stabilizers and Antimalarial drugs in Q4 during the 4 years?

Query Editor

Query History

```
1  /*Which sales team has the highest quantity ordered for Mood Stabilizers and Antimalarial drugs in Q
2  SELECT DISTINCT sales_team,SUM(quantity) AS total_quantity
3  FROM product_sales
4  WHERE product_class IN('Mood Stabilizers','Antimalarial') AND quarter = 'Q4'
5  GROUP BY 1
6  ORDER BY 2 DESC;
7
8
9
```

Data Output

Explain

Messages

Notifications

	sales_team character varying (10)	total_quantity bigint
1	Delta	739828
2	Charlie	691785
3	Alfa	603816
4	Bravo	552917