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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
1 FOLLOW THE FOLLOWING STEPS TO COPY YOUR DATASETS INTO YOUR PGADMIN
2
3 /* STEP 1: Create a new database for your company */
4
5 CREATE DATABASE Buybuy_company;
6
7
8 /* STEP 2: Execute the following code to create a new table in your database */
9
10 CREATE TABLE sales_data (
11     sales_date date,
12     sales_year varchar,
13     cus_id varchar,
14     cus_age int,
15     cus_gender varchar,
16     cus_country text,
17     cus_state text,
18     prod_category varchar,
19     prod_subcategory varchar,
20     product varchar,
21     ord_quantity int,
22     unit_cost int,
23     unit_price int
```

Total rows: 1000 of 452144 Query complete 00:00:00.781

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Ln 52, Col 1



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Query Query History

```
31 Execute the following code to copy CSV data into your database
32 */
33
34 COPY sales_data
35 FROM 'D:\DATASETS\CompanyX_sales_dataset.csv'
36 DELIMITER ',' CSV
37 HEADER;
38
39
40 /*
41 STEP 4
42 Execute the following code to display the newly imported data in your database
43 */
44
45 SELECT *
46 FROM sales_data;
47
48 /*
49 Time-Profit Analysis:
50 a. Query to calculate total profit for each quarter from 1Q11 to 4Q16:
51 */
52
```

Total rows: 1000 of 452144

Query complete 00:00:00.781

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BuyBuy Company

General Columns Advanced Constraints Parameters Security SQL

Name BuyBuy Company

Owner postgres

Schema public

Tablespace pg_default

Partitioned table?

Comment



Close

Reset

Save

51 */

52

Total rows: 1000 of 452144

Query complete 00:00:00.781

Activate Windows

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BuyBuy Company

General Columns Advanced Constraints Parameters Security SQL

Inherited from table(s)

Select to inherit from...

Columns

	Name	Data type	Length/Precision	Scale	Not NULL?	Primary key?	Default
 	sales_date	integer			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 	sales_year	character varying			<input type="checkbox"/>	<input type="checkbox"/>	
 	cus_id	character varying			<input type="checkbox"/>	<input type="checkbox"/>	
 	cus_age	integer			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
 	cus_gender	character varying			<input type="checkbox"/>	<input type="checkbox"/>	
 	cus_country	"char"			<input type="checkbox"/>	<input type="checkbox"/>	
 	cus_state	"char"			<input type="checkbox"/>	<input type="checkbox"/>	
 	prod_category	character varying			<input type="checkbox"/>	<input type="checkbox"/>	



X Close

Reset

Save

51 */

52

Total rows: 1000 of 452144

Query complete 00:00:00.781

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Import/Export data - table 'BuyBuy Company'

General Options Columns

Import/Export

✓ Import

Export

Filename

C:\Users\USER\Desktop\Virtual UTIVA\BuyBuy Dataset\UDI Project Caps

Format

csv

Encoding

Select an item...



Close

Reset

OK

51 */
52

Total rows: 1000 of 452144

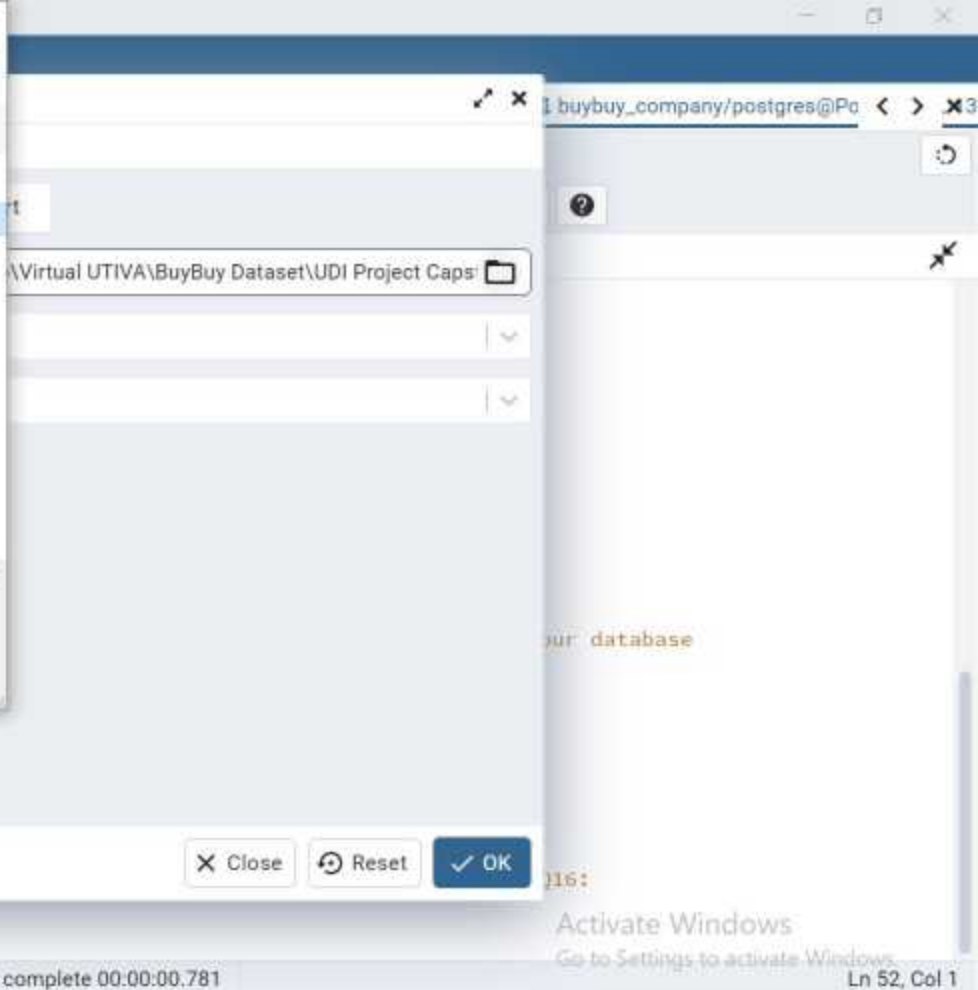
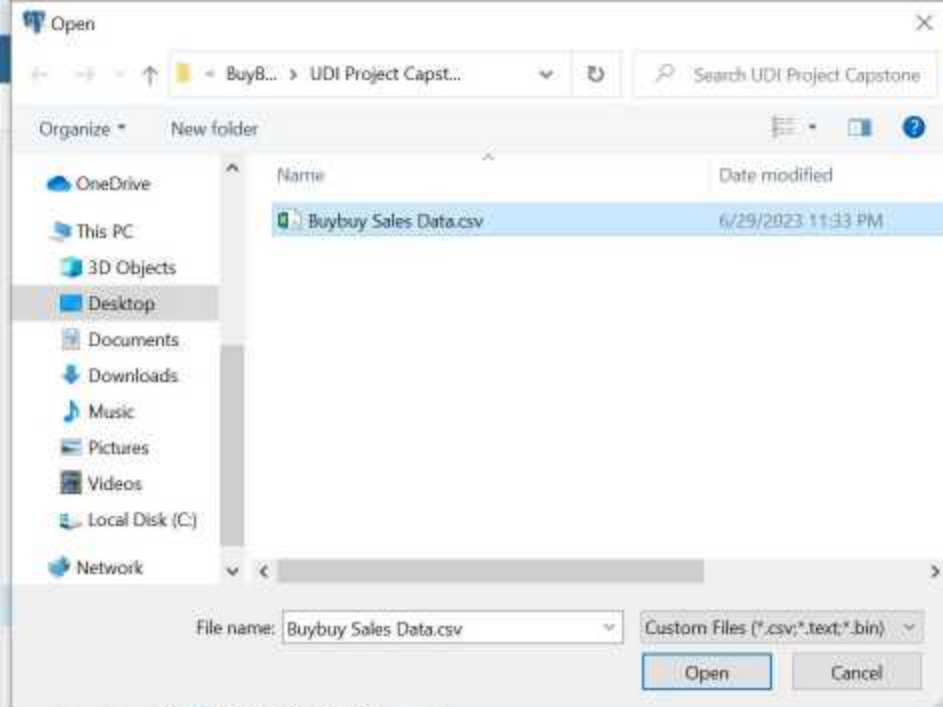
Query complete 00:00:00.781

116:

Activate Windows

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Import/Export data - table 'BuyBuy Company'

General Options Columns

OID



Header



Delimiter

.

Specifies the character that separates columns within each row (line) of the file. The default is a tab character in text format, a comma in CSV format. This must be a single one-byte character. This option is not allowed when using binary format.

Quote

"

Specifies the quoting character to be used when a data value is quoted. The default is double-quote. This must be a single one-byte character. This option is allowed only when using CSV format.

Escape

\"

Specifies the character that should appear before a data character that matches the QUOTE value. The default is the same as the QUOTE value (so that the quoting character is doubled if it appears in the data). This must



Close

Reset

OK

51 */
52

Total rows: 1000 of 452144

Query complete 00:00:00.781

116:

Activate Windows

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Import/Export data - table 'BuyBuy Company'

General Options Columns

Columns to import

sales_date x sales_year x cus_id x cus_age x
cus_gender x cus_country x cus_state x prod_category x
prod_subcategory x product x ord_quantity x unit_cost x
unit_price x cost x revenue x

An optional list of columns to be copied. If no column list is specified, all columns of the table will be copied.

NOT NULL columns

Not null columns...

Do not match the specified column values against the null string. In the default case where the null string is empty, this means that empty values will be read as zero-length strings rather than nulls, even when they are not quoted. This option is allowed only in import, and only when using CSV format.



Close

Reset

OK

51 */
52

Total rows: 1000 of 452144

Query complete 00:00:00.781

116:

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

Execute the following code to copy CSV data into your database

*/

COPY sales_data

FROM 'D:\DATASETS\CompanyX_sales_dataset.csv'

DELIMITER ',' CSV

HEADER;

/*

STEP 4

Execute the following code to display the newly imported data in your database

*/

SELECT *

FROM sales_data;

/*

Time-Profit Analysis:

a. Query to calculate total profit for each quarter from 1Q11 to 4Q16:

*/

52

Total rows: 1000 of 452144

Query complete 00:00:00.781

Activate Windows

Go to Settings to activate Windows.

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EDB Advanced Server Binary Path

Set as default	Database Server	Binary Path
<input type="radio"/>	EDB Advanced Server 10	Select binary path...  
<input type="radio"/>	EDB Advanced Server 11	Select binary path...  
<input type="radio"/>	EDB Advanced Server 12	Select binary path...  
<input type="radio"/>	EDB Advanced Server 13	Select binary path...  
<input type="radio"/>	EDB Advanced Server 14	Select binary path...  
<input type="radio"/>	EDB Advanced Server 15	Select binary path...  

Enter the directory in which the psql, pg_dump, pg_dumpall, and pg_restore utilities can be found for the corresponding database server version. The default path will be used for server versions that do not have a path specified.

PostgreSQL Binary Path

Set as default	Database Server	Binary Path
----------------	-----------------	-------------



X Cancel

 Save

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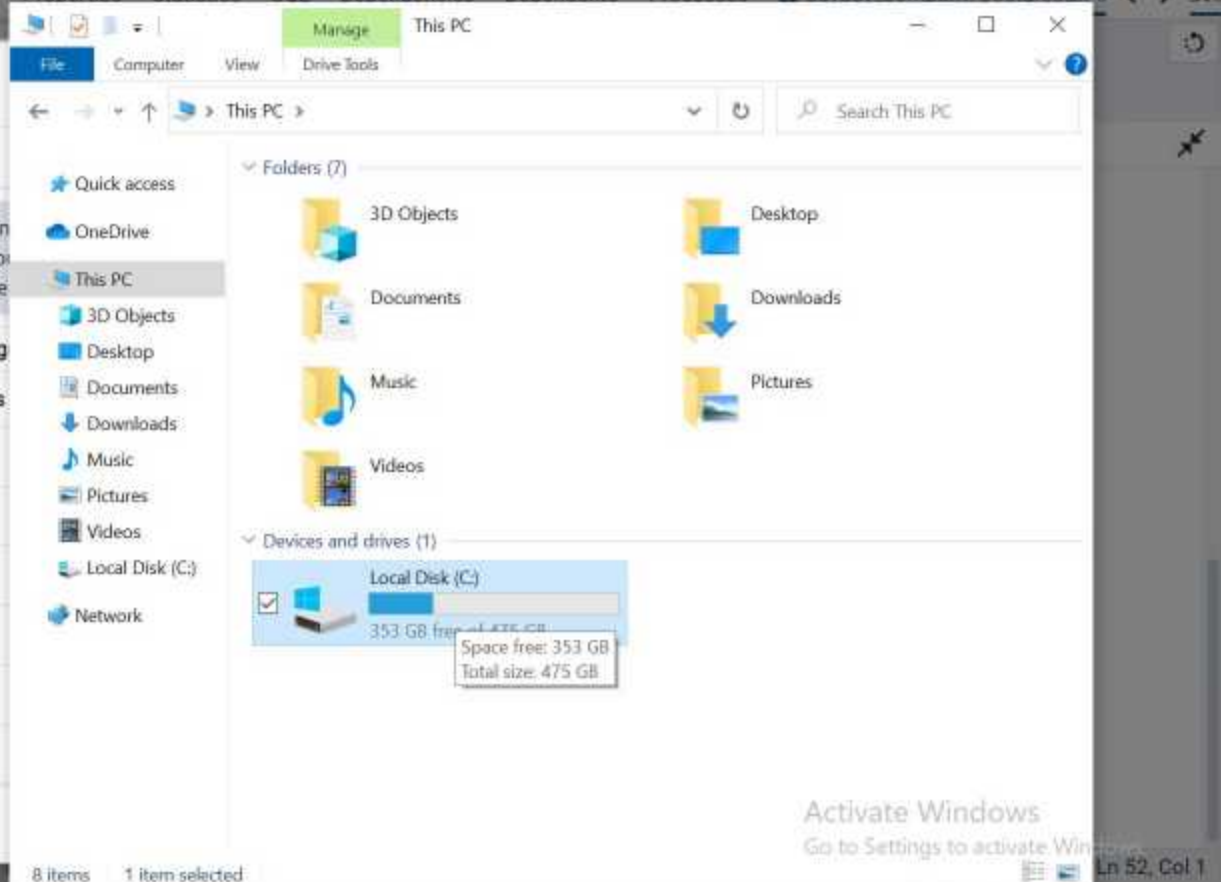
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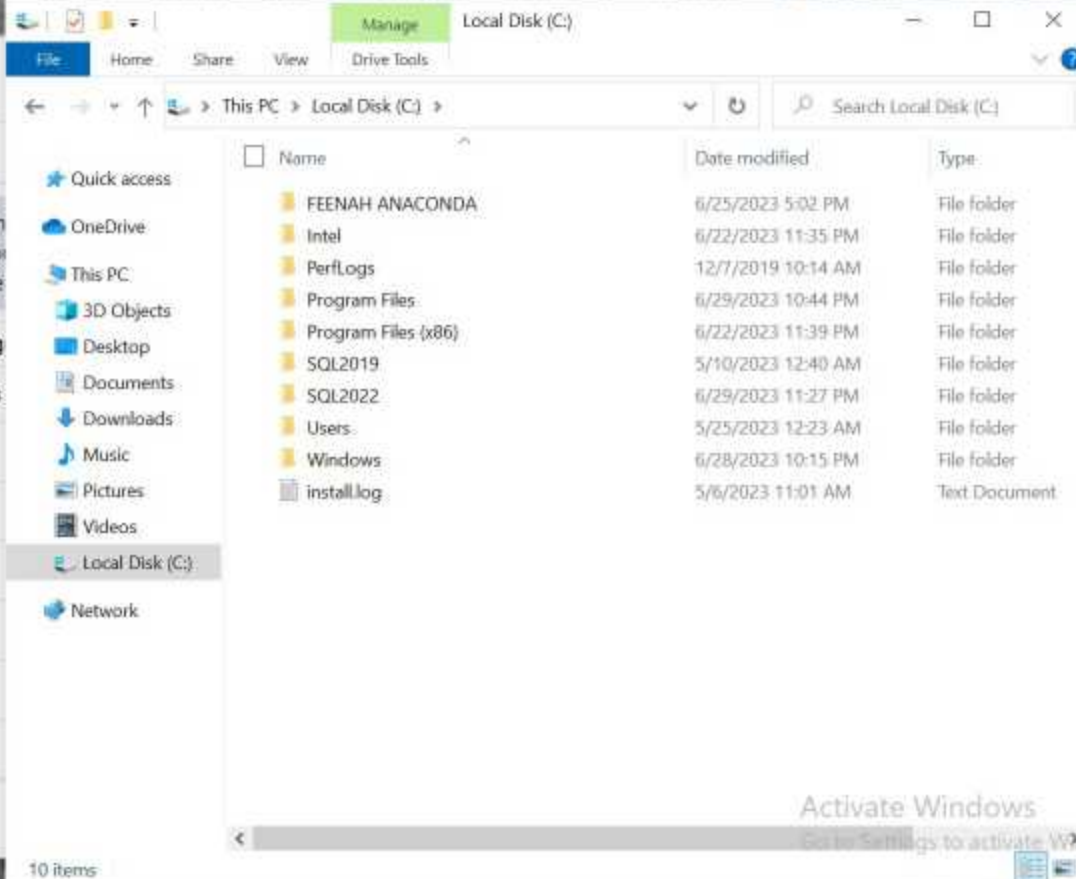
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File Home Share View

← → ↶ ↷ 📁 > This PC > Local Disk (C:) > Program Files

 Search Program Files

	Name	Date modified	Type
Quick access			
OneDrive			
This PC			
3D Objects			
Desktop			
Documents			
Downloads			
Music			
Pictures			
Videos			
Local Disk (C:)			
Network			
	Common Files	12/7/2019 10:31 AM	File folder
	CONEXANT	5/25/2023 2:09 PM	File folder
	Git	6/29/2023 11:14 PM	File folder
	Google	4/26/2023 6:17 PM	File folder
	HP	5/25/2023 12:26 AM	File folder
	Internet Explorer	6/15/2023 1:40 AM	File folder
	Microsoft Office 15	8/4/2019 1:36 AM	File folder
	Microsoft Power BI Desktop	4/21/2023 5:03 PM	File folder
	Microsoft SQL Server	6/29/2023 11:27 PM	File folder
	Microsoft Update Health Tools	5/27/2023 10:43 PM	File folder
	ModifiableWindowsApps	12/7/2019 10:14 AM	File folder
	Mozilla Firefox	4/25/2023 1:04 PM	File folder
	<input checked="" type="checkbox"/> PostgreSQL	4/21/2023 9:24 PM	File folder
	RStudio	6/29/2023 10:49 PM	File folder
	Synaptics	8/6/2019 9:25 PM	File folder
	UNP	5/25/2023 11:02 PM	File folder
	VideoLAN	8/6/2019 9:27 PM	File folder
	Windows Defender	5/25/2023 2:08 PM	File folder
	Windows Defender Advanced Threat ProtectL	6/25/2023 8:37 AM	File folder
	Windows Mail	5/25/2023 12:19 AM	File folder

29 items 1 item selected

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Program Files > PostgreSQL >

Search PostgreSQL

<input type="checkbox"/>	Name	Date modified	Type
	Quick access		
	OneDrive		
	This PC		
	3D Objects		
	Desktop		
	Documents		
	Downloads		
	Music		
	Pictures		
	Videos		
	Local Disk (C:)		
	Network		
<input checked="" type="checkbox"/>	13	6/29/2023 11:14 PM	File folder
<input type="checkbox"/>	15	6/29/2023 11:10 PM	File folder

Activate Windows

Go to Settings to activate Windows

2 items 1 item selected

Ln 52, Col 1

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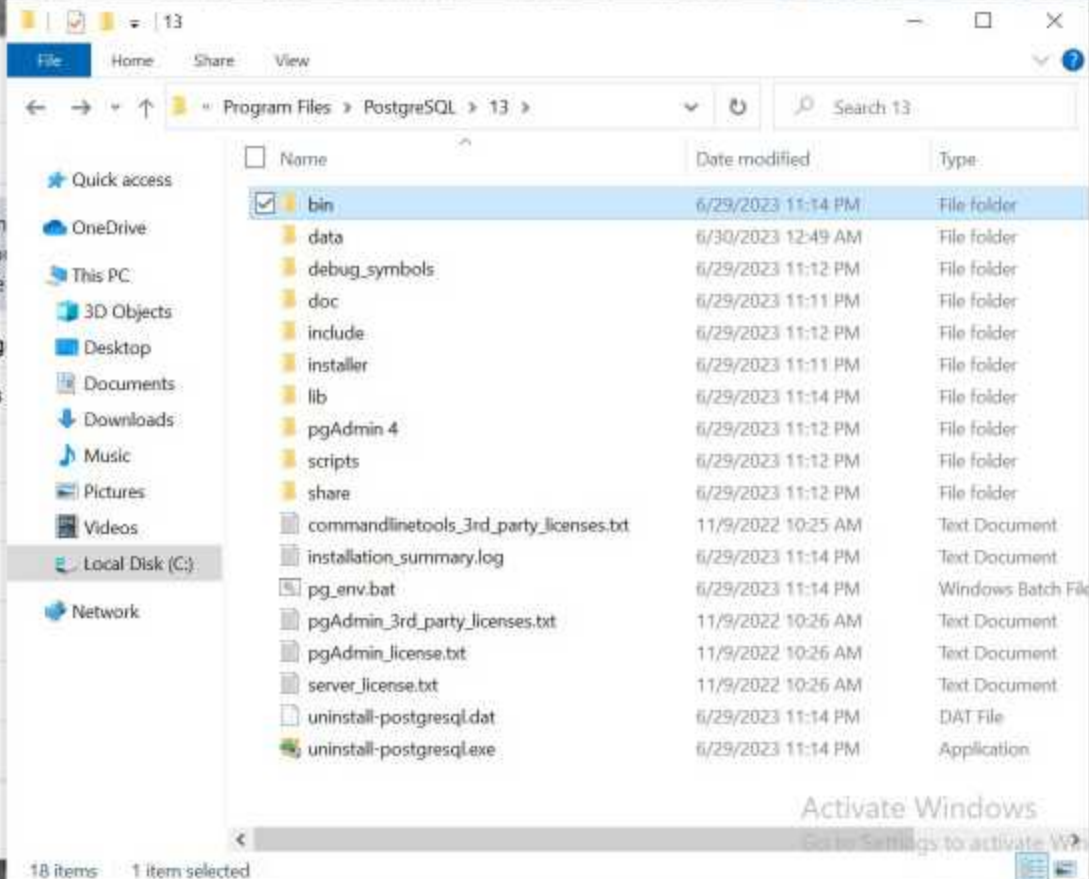
SQL formatting

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bin

File Home Share View

Program Files > PostgreSQL > 13 > bin

Copy address
Copy address as text
Edit address
Delete history

Name	Type
clusterdb.exe	Application
createdb.exe	Application
createuser.exe	Application
dropdb.exe	Application
dropuser.exe	Application
ecpg.exe	Application
icudt67.dll	Application ext
icuin67.dll	Application ext
icuio67.dll	Application ext
icutu67.dll	Application ext
icuc67.dll	Application ext
initdb.exe	Application
isolationtester.exe	Application
libcrypto-1_1-x64.dll	Application ext
libcurl.lib	LIB File
libecpg.dll	Application ext
libecpg_compat.dll	Application ext
libiconv-2.dll	Application ext
libintl-9.dll	Application ext
libpgtypes.dll	Application ext

57 items

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<input type="radio"/>	EDB Advanced Server 14	Select binary path...		<input checked="" type="checkbox"/>
<input type="radio"/>	EDB Advanced Server 15	Select binary path...		<input checked="" type="checkbox"/>
<p>Enter the directory in which the psql, pg_dump, pg_dumpall, and pg_restore utilities can be found for the corresponding database server version. The default path will be used for server versions that do not have a path specified.</p>				
PostgreSQL Binary Path				
Set as default	Database Server	Binary Path		
<input type="radio"/>	PostgreSQL 10	Select binary path...		<input checked="" type="checkbox"/>
<input type="radio"/>	PostgreSQL 11	Select binary path...		<input checked="" type="checkbox"/>
<input type="radio"/>	PostgreSQL 12	Select binary path...		<input checked="" type="checkbox"/>
<input checked="" type="radio"/>	PostgreSQL 13	C:\Program Files\PostgreSQL\13\bin		<input checked="" type="checkbox"/>
<input type="radio"/>	PostgreSQL 14	Select binary path...		<input checked="" type="checkbox"/>
<input type="radio"/>	PostgreSQL 15	Select binary path...		<input checked="" type="checkbox"/>

X Cancel

Save

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```

43 */
44
45 SELECT *
46 FROM sales_data;
47
48 /*
49 Time-Profit Analysis:
50 a. Query to calculate total profit for each quarter from 1Q11 to 4Q16:
51 */
52

```

Data Output Messages Notifications

	sales_date date	sales_year character varying	cus_id character varying	cus_age integer	cus_gender character varying	cus_country text	cus_state text	prod. char
1	2013-11-26	2013	11019	19	M	Canada	British Columbia	Acco
2	2015-11-26	2015	11019	19	M	Canada	British Columbia	Acco
3	2014-03-23	2014	11039	49	M	Australia	New South Wales	Acco
4	2016-03-23	2016	11039	49	M	Australia	New South Wales	Acco
5	2014-05-15	2014	11046	47	F	Australia	New South Wales	Acco

Total rows: 1000 of 452144 Query complete 00:00:01.454

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buybuy_company/postgres@PostgreSQL 13

Query Query History

```
32
33 /* STEP 4:Execute the following code to display the newly imported data in your database */
34 SELECT *
35 FROM sales_data;
36
37 /* Time-Profit Analysis: a. Query to calculate the total profit made by BuyBuy from 1Q11 to 4Q16
38 (all quarters of every year): */
39 SELECT SUM(revenue - cost) AS total_profit
40 FROM sales_data
41 WHERE sales_year >= '2011' AND sales_year <= '2016';
42
```

Data Output Messages Notifications

	sales_date date	sales_year character varying	cus_id character varying	cus_age integer	cus_gender character varying	cus_country text	cus_state text	prod. char
1	2013-11-26	2013	11019	19	M	Canada	British Columbia	Accx
2	2015-11-26	2015	11019	19	M	Canada	British Columbia	Accx
3	2014-03-23	2014	11039	49	M	Australia	New South Wales	Accx
4	2016-03-23	2016	11039	49	M	Australia	New South Wales	Accx
5	2014-05-15	2014	11046	47	F	Australia	New South Wales	Accx

Total rows: 1000 of 452144 Query complete 00:00:00.859

Go to Settings to activate Windows
Ln 39, Col 22

pgAdmin 4

pgAdmin File Object Tools Help

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Dashboard Properties Statistics SQL Dependencies Dependents Processes buybuy_company/postgres@Pg

buybuy_company/postgres@PostgreSQL 13

No limit

Execute/Refresh (F5)

Query Query History

```
33 /* STEP 4:Execute the following code to display the newly imported data in your database */
34 SELECT *
35 FROM sales_data;
36
37 /* Time-Profit Analysis:
38 a. Query to calculate the total profit made by BuyBuy from 1Q11 to 4Q16
39 (all quarters of every year): */
40 SELECT SUM(revenue - cost) AS total_profit
41 FROM sales_data
42 WHERE sales_year >= '2011' AND sales_year <= '2016';
```

Data Output Messages Notifications

	total_profit bigint
1	128884400

Total rows: 1 of 1 Query complete 00:00:00.650

Activate Windows
Go to Settings to activate Windows.

Ln 40, Col 1



buybuy_company/postgres@PostgreSQL 13



Query Query History

```
40 SELECT SUM(revenue - cost) AS total_profit
41 FROM sales_data
42 WHERE sales_year >= '2011' AND sales_year <= '2016';
43
44 /* b. Queries to calculate the total profit made by BuyBuy in Q2 of every year from 2011 to 2016: */
45 SELECT sales_year, SUM(revenue - cost) AS q2_profit
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50
```

Data Output Messages Notifications



	total_profit bigint
1	128884400

Total rows: 1 of 1 Query complete 00:00:00.650

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No limit

Query Query History

```
40 SELECT SUM(revenue - cost) AS total_profit
41 FROM sales_data
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43
44 /* b. Queries to calculate the total profit made by BuyBuy in Q2 of every year from 2011 to 2016: */
45 SELECT sales_year, SUM(revenue - cost) AS q2_profit
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50
```

Data Output Messages Notifications

	sales_year	q2_profit
	character varying	bigint
1	2011	8939616
2	2012	11807972
3	2013	23836832
4	2014	23456348
5	2015	30114252
6	2016	27125236

Total rows: 6 of 6 Query complete 00:00:00.284

Activate Windows

Go to Settings to activate Windows.

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No limit

Query Query History

```
40 SELECT SUM(revenue - cost) AS total_profit
41 FROM sales_data
42 WHERE sales_year >= '2011' AND sales_year <= '2016';
43
44 /* b. Queries to calculate the total profit made by BuyBuy in Q2 of every year from 2011 to 2016: */
45 SELECT sales_year, SUM(revenue - cost) AS q2_profit
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50
```

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate



2011 2012 2013 2014 2015 2016



Total rows: 6 of 6 Query complete 00:00:00.284

Activate Windows
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Ln 44, Col 97



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buybuy_company/postgres@PostgreSQL 13

Data Output

Messages

Graph Visualiser

Notifications

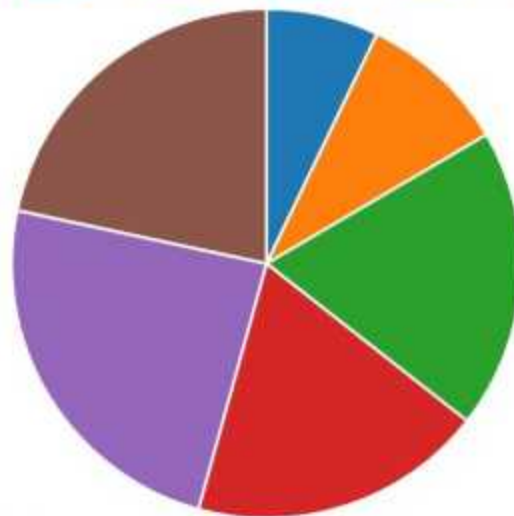
Graph Type

Pie Chart

Generate



2011 2012 2013 2014 2015 2016



Total rows: 6 of 6

Query complete 00:00:00,284

Activate Windows

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Ln 44, Col 97

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50 /* c. Query to calculate the annual profit made by BuyBuy from the year 2011 to 2016: */
51 SELECT sales_year, SUM(revenue - cost) AS annual_profit
52 FROM sales_data
53 WHERE sales_year >= '2011' AND sales_year <= '2016'
54 GROUP BY sales_year;
55
56
```

Data Output Messages Graph Visualiser Notifications

	sales_year character varying	q2_profit bigint
1	2011	8939616
2	2012	11807972
3	2013	23836832
4	2014	23456348
5	2015	30114252
6	2016	27125236

Total rows: 6 of 6 Query complete 00:00:00.284

Activate Windows
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Ln 55, Col 1



buybuy_company/postgres@PostgreSQL 13



Query Query History

```
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50 /* c. Query to calculate the annual profit made by BuyBuy from the year 2011 to 2016: */
51 SELECT sales_year, SUM(revenue - cost) AS annual_profit
52 FROM sales_data
53 WHERE sales_year >= '2011' AND sales_year <= '2016'
54 GROUP BY sales_year;
55
56
```

Data Output Messages Notifications



	sales_year	annual_profit
	character varying	bigint
1	2011	11525204
2	2012	11807972
3	2013	23836832
4	2014	23456348
5	2015	30114252
6	2016	28149703

Total rows: 6 of 6 Query complete 00:00:00.442

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
46 FROM sales_data
47 WHERE sales_date >= '2011-04-01' AND sales_date <= '2016-06-30'
48 GROUP BY sales_year;
49
50 /* c. Query to calculate the annual profit made by BuyBuy from the year 2011 to 2016: */
51 SELECT sales_year, SUM(revenue - cost) AS annual_profit
52 FROM sales_data
53 WHERE sales_year >= '2011' AND sales_year <= '2016'
54 GROUP BY sales_year;
55
56
```

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate

Expand

2011 2012 2013 2014 2015 2016



Total rows: 6 of 6 Query complete 00:00:00.442

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Ln 51, Col 1



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Data Output

Messages

Graph Visualiser

Notifications

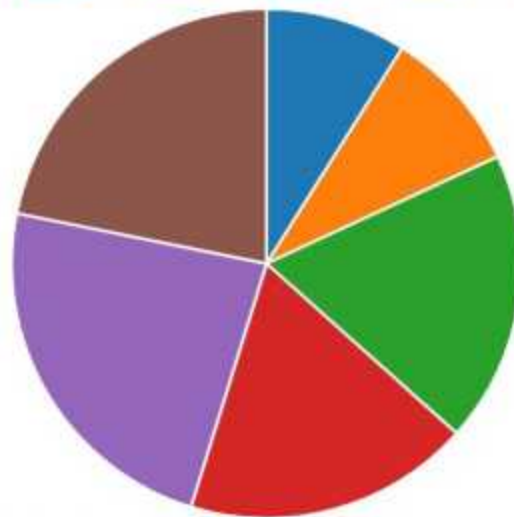
Graph Type

Pie Chart

Generate



2011 2012 2013 2014 2015 2016



Total rows: 6 of 6

Query complete 00:00:00.442

Activate Windows

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
54 GROUP BY sales_year;  
55  
56 /* To create a chart visualising the data from the analysis in 1(b),  
57 which is the total profit made by BuyBuy in Q2 of every year from 2011 to 2016 */  
58 SELECT EXTRACT(YEAR FROM sales_date) AS year, SUM(revenue - cost) AS profit  
59 FROM sales_data  
60 WHERE EXTRACT(QUARTER FROM sales_date) = 2 AND EXTRACT(YEAR FROM sales_date) BETWEEN 2011 AND 2016  
61 GROUP BY year  
62 ORDER BY year;  
63  
64
```

Data Output Messages Graph Visualiser x Notifications

Successfully run. Total query runtime: 213 msec.
6 rows affected.

Total rows: 6 of 6 Query complete 00:00:00.213

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
54 GROUP BY sales_year;  
55  
56 /* To create a chart visualising the data from the analysis in 1(b),  
57 which is the total profit made by BuyBuy in Q2 of every year from 2011 to 2016 */  
58 SELECT EXTRACT(YEAR FROM sales_date) AS year, SUM(revenue - cost) AS profit  
59 FROM sales_data  
60 WHERE EXTRACT(QUARTER FROM sales_date) = 2 AND EXTRACT(YEAR FROM sales_date) BETWEEN 2011 AND 2016  
61 GROUP BY year  
62 ORDER BY year;  
63  
64
```

Data Output Messages Graph Visualiser x Notifications

	year double precision	profit bigint
1	2011	2693276
2	2012	2832216
3	2013	2100964
4	2014	12407076
5	2015	3174984
6	2016	15002460

Total rows: 6 of 6 Query complete 00:00:00.732

Activate Windows
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Ln 58, Col 1

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
54 GROUP BY sales_year;  
55  
56 /* To create a chart visualising the data from the analysis in 1(b),  
57 which is the total profit made by BuyBuy in Q2 of every year from 2011 to 2016 */  
58 SELECT EXTRACT(YEAR FROM sales_date) AS year, SUM(revenue - cost) AS profit  
59 FROM sales_data  
60 WHERE EXTRACT(QUARTER FROM sales_date) = 2 AND EXTRACT(YEAR FROM sales_date) BETWEEN 2011 AND 2016  
61 GROUP BY year  
62 ORDER BY year;  
63  
64
```

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate



2011 2012 2013 2014 2015 2016



Total rows: 6 of 6 Query complete 00:00:00.732

Activate Windows
Go to Settings to activate Windows

Ln 58, Col 1



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buybuy_company/postgres@PostgreSQL 13

Data Output

Messages

Graph Visualiser

Notifications

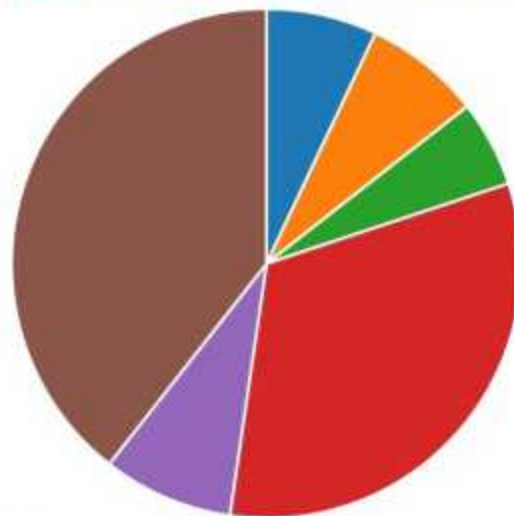
Graph Type

Pie Chart

Generate



2011 2012 2013 2014 2015 2016



Total rows: 6 of 6

Query complete 00:00:00.732

Activate Windows

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Ln 58, Col 1

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
61 ORDER BY year;
62 ORDER BY year;
63
64 /* Region-Profit Analysis:
65 a. Queries to return the countries where BuyBuy has made the most and least profit of all time: */
66 SELECT cus_country, SUM(revenue - cost) AS total_profit
67 FROM sales_data
68 GROUP BY cus_country
69 ORDER BY total_profit DESC
70 LIMIT 1; -- Most profitable country
71
```

Data Output Messages Graph Visualiser Notifications

	cus_country text	total_profit bigint
1	France	11521128

Total rows: 1 of 1 Query complete 00:00:00.482

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
61 ORDER BY year;
62 ORDER BY year;
63
64 /* Region-Profit Analysis:
65 a. Queries to return the countries where BuyBuy has made the most and least profit of all time: */
66 SELECT cus_country, SUM(revenue - cost) AS total_profit
67 FROM sales_data
68 GROUP BY cus_country
69 ORDER BY total_profit DESC
70 LIMIT 1; -- Most profitable country
71
```

Data Output Messages Graph Visualiser Notifications

Graph Type Bar Chart

Generate

15000000
10000000
5000000
0

total_profit

France

Total rows: 1 of 1 Query complete 00:00:00.482

Activate Windows
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Ln 66, Col 1



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buybuy_company/postgres@PostgreSQL 13

No limit

Data Output

Messages

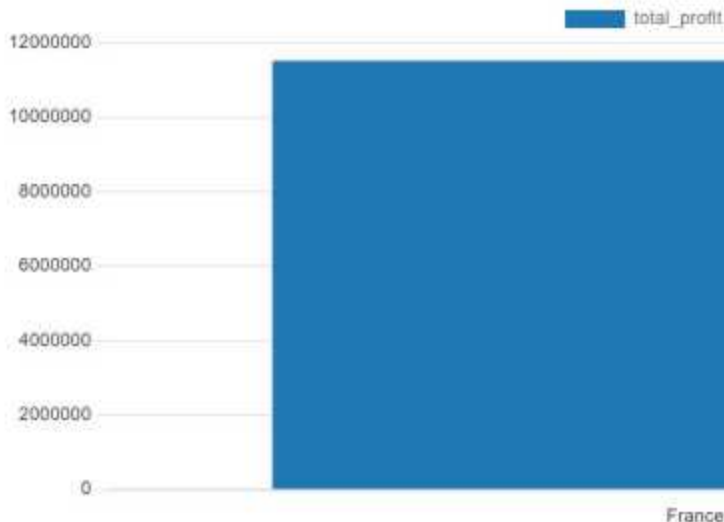
Graph Visualiser

Notifications

Graph Type

Bar Chart

Generate



Total rows: 1 of 1

Query complete 00:00:00.482

Activate Windows

Go to Settings to activate Windows.

Ln 66, Col 1



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buybuy_company/postgres@PostgreSQL 13

Data Output

Messages

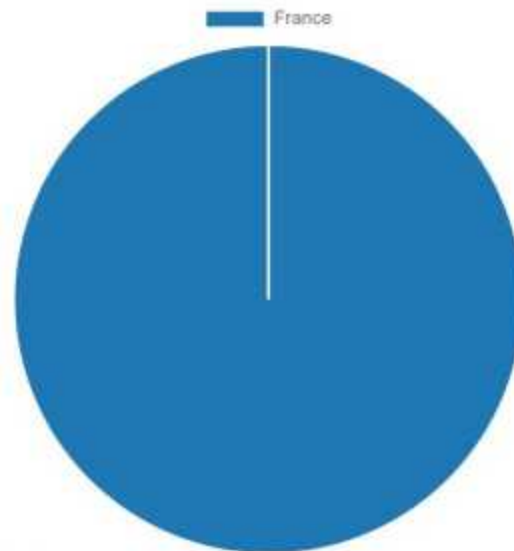
Graph Visualiser

Notifications

Graph Type

Pie Chart

Generate



Total rows: 1 of 1

Query complete 00:00:00.482

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
76 LIMIT 1; -- least profitable country
77
78 /* b. Query to show the top 10 most profitable countries for BuyBuy sales operations from 2011 to 20
79 SELECT cus_country, SUM(revenue - cost) AS total_profit
80 FROM sales_data
81 WHERE sales_year >= '2011' AND sales_year <= '2016'
82 GROUP BY cus_country
83 ORDER BY total_profit DESC
84 LIMIT 10;
85
```

Data Output Messages Graph Visualiser Notifications

Successfully run. Total query runtime: 482 msec.
1 rows affected.

Total rows: 1 of 1 Query complete 00:00:00.482



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buybuy_company/postgres@PostgreSQL 13

Query Query History

```
76 LIMIT 1; -- least profitable country
77
78 /* b. Query to show the top 10 most profitable countries for BuyBuy sales operations from 2011 to 20
79 SELECT cus_country, SUM(revenue - cost) AS total_profit
80 FROM sales_data
81 WHERE sales_year >= '2011' AND sales_year <= '2016'
82 GROUP BY cus_country
83 ORDER BY total_profit DESC
84 LIMIT 10;
85
```

Data Output Messages Graph Visualiser x Notifications



	cus_country text	total_profit bigint
1	United States	44294576
2	Australia	27104120
3	United Kingdom	17655412
4	Canada	14869184
5	Germany	13439980
6	France	11521128

Total rows: 6 of 6 Query complete 00:00:00.802

Activate Windows

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buybuy_company/postgres@PostgreSQL 13

No limit

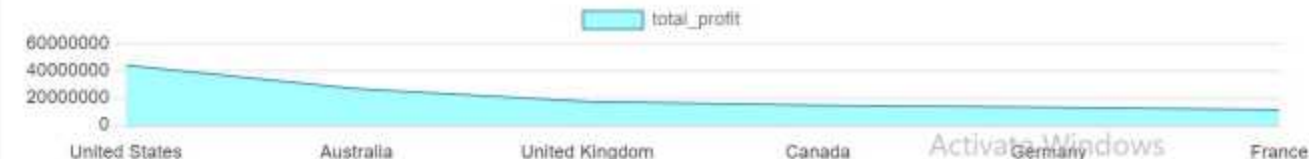
Query Query History

```
76 LIMIT 1; -- least profitable country
77
78 /* b. Query to show the top 10 most profitable countries for BuyBuy sales operations from 2011 to 20
79 SELECT cus_country, SUM(revenue - cost) AS total_profit
80 FROM sales_data
81 WHERE sales_year >= '2011' AND sales_year <= '2016'
82 GROUP BY cus_country
83 ORDER BY total_profit DESC
84 LIMIT 10;
85
```

Data Output Messages Graph Visualiser Notifications

Graph Type Stacked Line Chart

Generate



Total rows: 6 of 6 Query complete 00:00:00.802

Activate Windows
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Ln 79, Col 1

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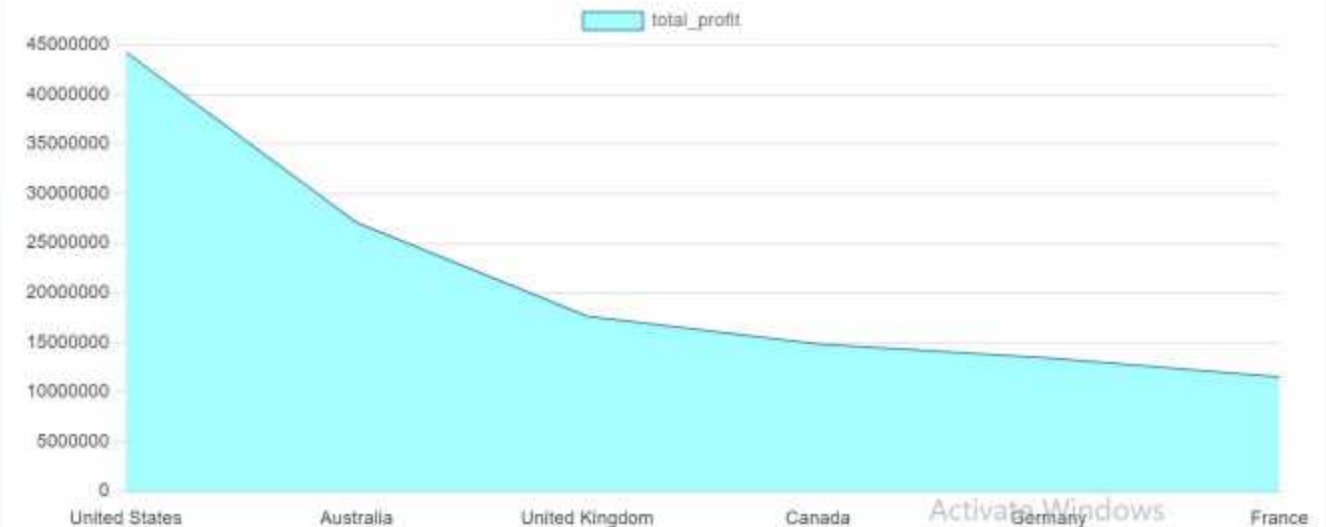
buybuy_company/postgres@PostgreSQL 13

No limit

Data Output Messages Graph Visualiser Notifications

Graph Type Stacked Line Chart

Generate



Total rows: 6 of 6 Query complete 00:00:00.802

Activate Windows
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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
83 ORDER BY total_profit DESC
84 LIMIT 10;
85
86 /* c. Query to show the all-time top 10 least profitable countries for BuyBuy sales operations: */
87 SELECT cus_country, SUM(revenue - cost) AS total_profit
88 FROM sales_data
89 GROUP BY cus_country
90 ORDER BY total_profit ASC
91 LIMIT 10;
92
93
```

Data Output Messages Notifications

Successfully run. Total query runtime: 802 msec.
6 rows affected.

Total rows: 6 of 6 Query complete 00:00:00.802

Activate Windows
Go to Settings to activate Windows.

Ln 92, Col 1



buybuy_company/postgres@PostgreSQL 13



Query Query History

```
83 ORDER BY total_profit DESC
84 LIMIT 10;
85
86 /* c. Query to show the all-time top 10 least profitable countries for BuyBuy sales operations: */
87 SELECT cus_country, SUM(revenue - cost) AS total_profit
88 FROM sales_data
89 GROUP BY cus_country
90 ORDER BY total_profit ASC
91 LIMIT 10;
92
93
```

Data Output Messages Notifications



	cus_country text	total_profit bigint
1	France	11521128
2	Germany	13439980
3	Canada	14869184
4	United Kingdom	17655412
5	Australia	27104120
6	United States	44204576

Total rows: 6 of 6 Query complete 00:00:00.237

Activate Windows
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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

83 ORDER BY total_profit DESC

84 LIMIT 10;

85

86 /* c. Query to show the all-time top 10 least profitable countries for BuyBuy sales operations: */

87 SELECT cus_country, SUM(revenue - cost) AS total_profit

88 FROM sales_data

89 GROUP BY cus_country

90 ORDER BY total_profit ASC

91 LIMIT 10;

92

93

Data Output Messages Graph Visualiser Notifications

Graph Type Line Chart

Generate

60000000
40000000
20000000
0

France

Germany

Canada

United Kingdom

Australia

United States

Total rows: 6 of 6

Query complete 00:00:00.237

Activate Windows
Go to Settings to activate Windows.

Ln 87, Col 1

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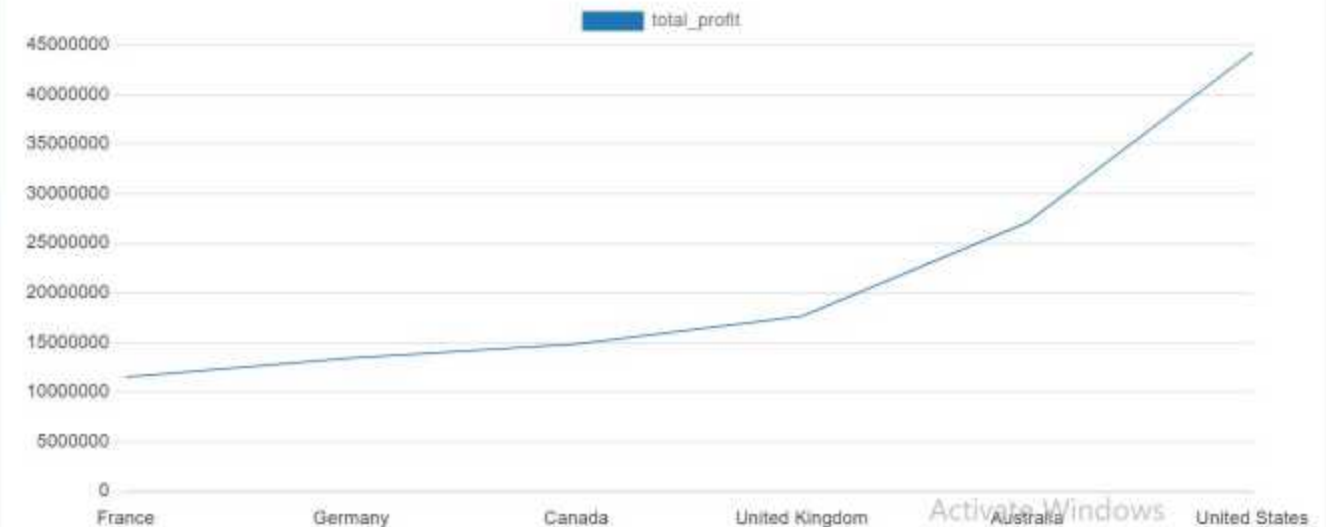
buybuy_company/postgres@PostgreSQL 13

No limit

Data Output Messages Graph Visualiser Notifications

Graph Type Line Chart

Generate



Total rows: 6 of 6 Query complete 00:00:00.237



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buybuy_company/postgres@PostgreSQL 13



No limit



Query

Query History

```
91 LIMIT 10;
92
93 /* a chart to visualize the top 10 most profitable countries (2(b)) */
94 SELECT cus_country, SUM(revenue - cost) AS profit
95 FROM sales_data
96 WHERE EXTRACT(YEAR FROM sales_date) BETWEEN 2011 AND 2016
97 GROUP BY cus_country
98 ORDER BY profit DESC
99 LIMIT 10;
100
101
```

Data Output

Messages

Notifications



	cus_country text	profit bigint
1	United States	44294576
2	Australia	27104120
3	United Kingdom	17655412
4	Canada	14869184
5	Germany	13439980
6	France	11521128

Total rows: 6 of 6

Query complete 00:00:00.637

Activate Windows

Go to Settings to activate Windows.

Ln 94, Col 1

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- Trigger Functions
- Types
- Views
- Subscriptions
- buybuy_company
 - Casts
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buybuy_company/postgres@PostgreSQL 13

No limit

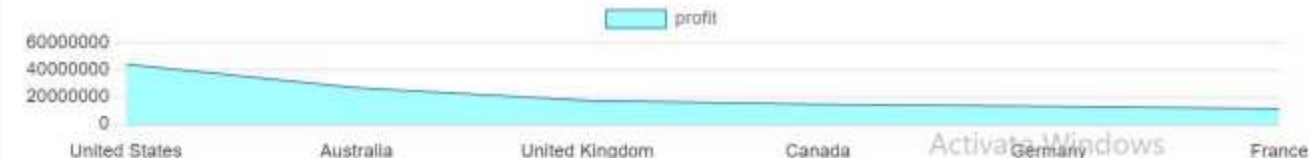
Query Query History

```
91 LIMIT 10;  
92  
93 /* a chart to visualize the top 10 most profitable countries (2(b)) */  
94 SELECT cus_country, SUM(revenue - cost) AS profit  
95 FROM sales_data  
96 WHERE EXTRACT(YEAR FROM sales_date) BETWEEN 2011 AND 2016  
97 GROUP BY cus_country  
98 ORDER BY profit DESC  
99 LIMIT 10;  
100  
101
```

Data Output Messages Graph Visualiser Notifications

Graph Type Stacked Line Chart

Generate



Total rows: 6 of 6 Query complete 00:00:00.637

Activate Windows
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Ln 99, Col 10

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
98 ORDER BY profit DESC
99 LIMIT 10;
100
101 /* Product-Revenue Analysis:
102 a. Query to rank all product categories sold by BuyBuy based on the all-time revenue generated: */
103 SELECT prod_category, SUM(revenue) AS total_revenue
104 FROM sales_data
105 GROUP BY prod_category
106 ORDER BY total_revenue;
107
108
```

Data Output Messages Notifications

	prod_category character varying	total_revenue bigint
1	Clothing	33483528
2	Accessories	60471968
3	Bikes	247128536

Total rows: 3 of 3 Query complete 00:00:00.329

- > Domains
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- ▼ Tables (4)
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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

98 ORDER BY profit DESC

99 LIMIT 10;

100

101 /* Product-Revenue Analysis:

102 a. Query to rank all product categories sold by BuyBuy based on the all-time revenue generated: */

103 SELECT prod_category, SUM(revenue) AS total_revenue

104 FROM sales_data

105 GROUP BY prod_category

106 ORDER BY total_revenue;

107

108

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate



Clothing Accessories Bikes



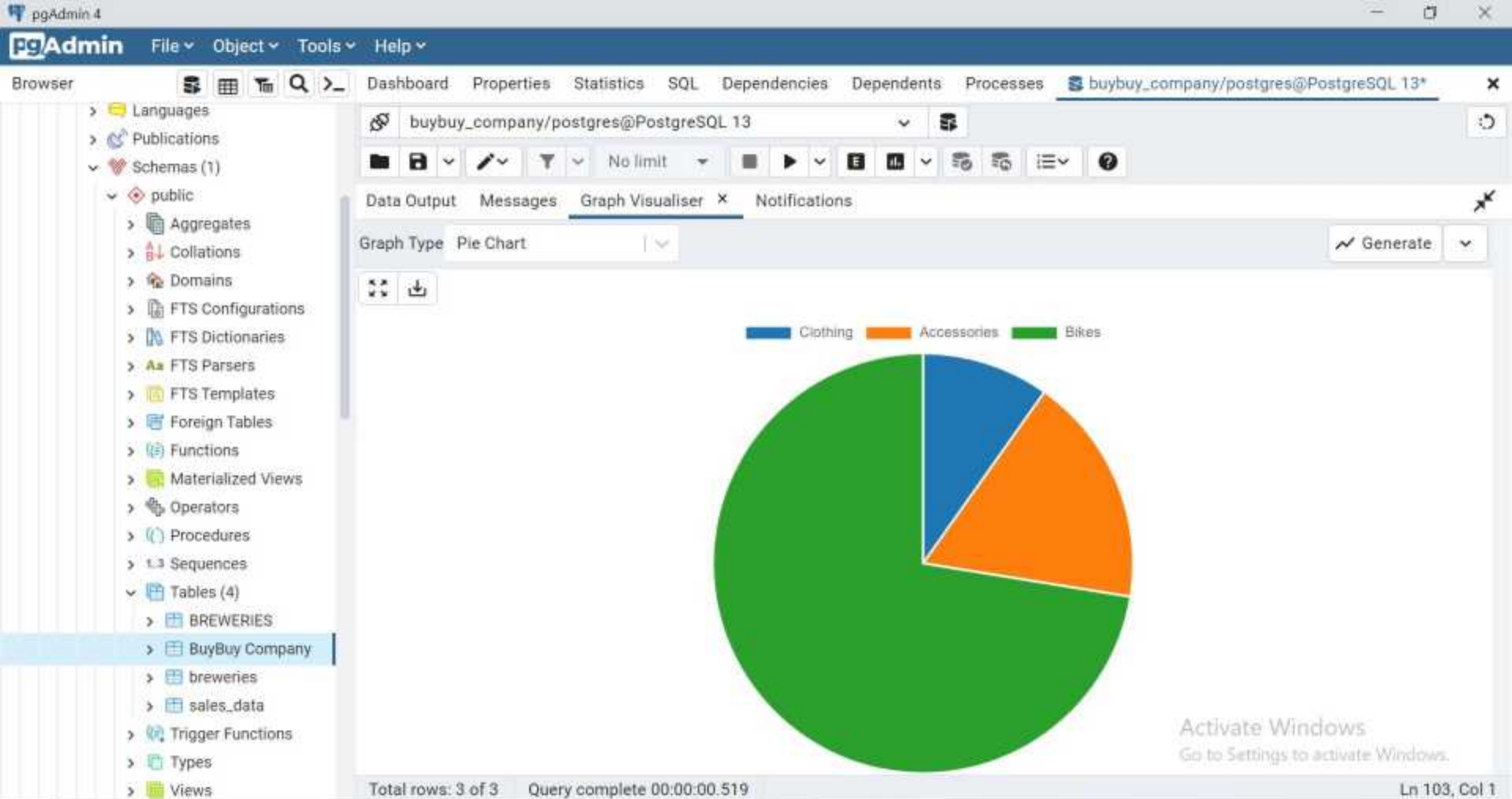
Total rows: 3 of 3

Query complete 00:00:00.329

Activate Windows

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Ln 103, Col 1



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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
105 GROUP BY prod_category
106 ORDER BY total_revenue;
107
108 /* b. Query to return the top 2 product categories offered by BuyBuy with the highest number of units sold: */
109 SELECT prod_category, SUM(ord_quantity) AS total_units_sold
110 FROM sales_data
111 GROUP BY prod_category
112 ORDER BY total_units_sold DESC
113 LIMIT 2;
114
115
```

Data Output Messages Notifications

	prod_category character varying	total_units_sold bigint
1	Accessories	4216648
2	Clothing	1018972

Total rows: 2 of 2 Query complete 00:00:00.391

Activate Windows
Go to Settings to activate Windows.

Ln 109, Col 1

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- > Publications
- > Schemas (1)
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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
107
108 /* b. Query to return the top 2 product categories offered by BuyBuy with the highest number of units sold:
109 SELECT prod_category, SUM(ord_quantity) AS total_units_sold
110 FROM sales_data
111 GROUP BY prod_category
112 ORDER BY total_units_sold DESC
113 LIMIT 2;
114
115
116
```

Data Output Messages Graph Visualiser X Notifications

Graph Type Pie Chart

Generate

Expand

Accessories Clothing



Activate Windows
Go to Settings to activate Windows.

Total rows: 2 of 2 Query complete 00:00:00.358

Ln 109, Col 1

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- > Publications
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 - > public
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 - > Domains
 - > FTS Configurations
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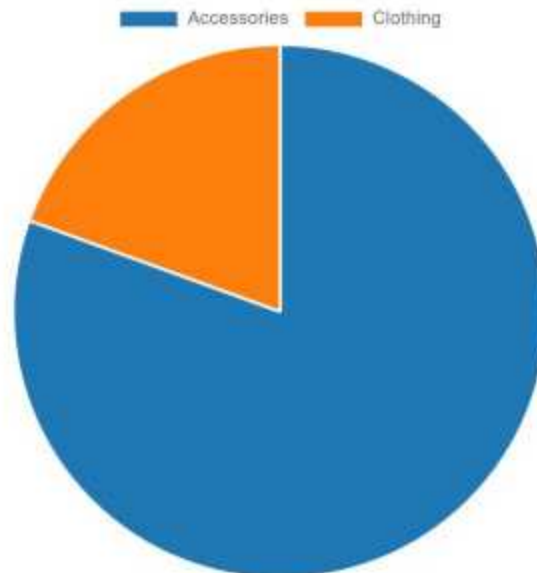
buybuy_company/postgres@PostgreSQL 13

No limit

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate



Total rows: 2 of 2 Query complete 00:00:00.358

Ln 109, Col 1

Activate Windows
Go to Settings to activate Windows.

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

Execute/Refresh

F5

```
112 ORDER BY total_units_sold DESC
113 LIMIT 2;
114
115 /* c. Query to show the top 10 highest-grossing products sold by BuyBuy based on all-time profits: */
116 SELECT product, SUM(revenue - cost) AS total_profit
117 FROM sales_data
118 GROUP BY product
119 ORDER BY total_profit DESC
120 LIMIT 10;
121
122
```

Data Output Messages Notifications

	product character varying	total_profit bigint
1	Mountain-200 Black, 38	5241856
2	Road-150 Red, 62	4975020
3	Mountain-200 Silver, 42	4925808
4	Sport-100 Helmet, Red	4765608
5	Mountain-200 Silver, 38	4662240
6	Sport-100 Helmet, Black	4565320

Total rows: 10 of 10

Query complete 00:00:00.268

✓ Successfully run. Total query runtime: 268 msec: 10 rows affected. ✕

Ln 116, Col 1

- > Languages
- > Publications
- > Schemas (1)
 - > public
 - > Aggregates
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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
112 ORDER BY total_units_sold DESC
113 LIMIT 2;
114
115 /* c. Query to show the top 10 highest-grossing products sold by BuyBuy based on all-time profits: */
116 SELECT product, SUM(revenue - cost) AS total_profit
117 FROM sales_data
118 GROUP BY product
119 ORDER BY total_profit DESC
120 LIMIT 10;
121
122
```

Data Output Messages Graph Visualiser X Notifications

Graph Type Pie Chart

Generate



Expand

Mountain-200 Black, 38	Road-150 Red, 62	Mountain-200 Silver, 42	Sport-100 Helmet, Red	Mountain-200 Silver, 38
Sport-100 Helmet, Black	Mountain-200 Black, 46	Road-150 Red, 52	Sport-100 Helmet, Blue	Mountain-200 Black, 42



Activate Windows
Go to Settings to activate Windows.

Total rows: 10 of 10 Query complete 00:00:00.268

Ln 116, Col 1

- > Languages
- > Publications
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 - > public
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buybuy_company/postgres@PostgreSQL 13

No limit

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate

Mountain-200 Black, 38 Road-150 Red, 62 Mountain-200 Silver, 42 Sport-100 Helmet, Red Mountain-200 Silver, 38
Sport-100 Helmet, Black Mountain-200 Black, 46 Road-150 Red, 52 Sport-100 Helmet, Blue Mountain-200 Black, 42



Activate Windows
Go to Settings to activate Windows.

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buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

Execute/Refresh

F5

119 ORDER BY total_profit DESC

120 LIMIT 10;

121

122 /* d. Creating a chart to visualize the top 2 product categories with the highest number of units sold (3(b))

123 SELECT prod_category, SUM(ord_quantity) AS total_units_sold

124 FROM sales_data

125 GROUP BY prod_category

126 ORDER BY total_units_sold DESC

127 LIMIT 2;

128

129

Data Output Messages Notifications

	prod_category character varying	total_units_sold bigint
1	Accessories	4216648
2	Clothing	1018972

Total rows: 2 of 2 Query complete 00:00:00.254

✓ Successfully run. Total query runtime: 254/msec. 2 rows affected. ✕

Activate Windows

Ln 123, Col 1

- > Languages
- > Publications
- > Schemas (1)
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 - > Aggregates
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 - > Domains
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 - > breweries
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 - > Types
 - > Views

buybuy_company/postgres@PostgreSQL 13

No limit

Query Query History

```
119 ORDER BY total_profit DESC
120 LIMIT 10;
121
122 /* d. Creating a chart to visualize the top 2 product categories with the highest number of units sold (3(b))
123 SELECT prod_category, SUM(ord_quantity) AS total_units_sold
124 FROM sales_data
125 GROUP BY prod_category
126 ORDER BY total_units_sold DESC
127 LIMIT 2;
128
129
```

Data Output Messages Graph Visualiser X Notifications

Graph Type Pie Chart

Generate



Accessories Clothing



Activate Windows
Go to Settings to activate Windows.

Total rows: 2 of 2 Query complete 00:00:00.254

Ln 123, Col 1

- > Languages
- > Publications
- > Schemas (1)
 - > public
 - > Aggregates
 - > Collations
 - > Domains
 - > FTS Configurations
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 - > Tables (4)
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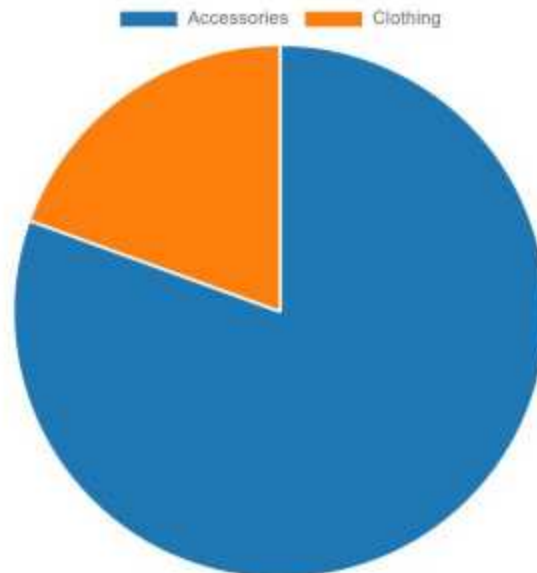
buybuy_company/postgres@PostgreSQL 13

No limit

Data Output Messages Graph Visualiser Notifications

Graph Type Pie Chart

Generate



Total rows: 2 of 2 Query complete 00:00:00.254

Ln 123, Col 1

Activate Windows
Go to Settings to activate Windows.