

Q1. Count total number of orders.

The image shows a screenshot of the pgAdmin 4 web interface. At the top, there's a menu bar with 'File', 'Object', 'Tools', 'Edit', 'View', 'Window', and 'Help'. Below the menu, a toolbar contains various icons for file operations, query execution, and navigation. The main workspace is divided into two panes: 'Query' and 'Scratch Pad'. The 'Query' pane contains a SQL query:

```
-- Q1. Count total number of orders.
SELECT count(*) as Total_orders FROM retail_sales_cleaned
```

 The 'Scratch Pad' pane is empty. Below the query panes, there's a 'Data Output' section with tabs for 'Data Output', 'Messages', and 'Notifications'. The 'Data Output' tab is active, showing a table with one column 'total_orders' of type 'bigint' and one row with the value '4000'. At the bottom of the interface, a status bar shows 'Total rows: 1', 'Query complete 00:00:00.063', and 'Ln 3, Col 57'. The Windows taskbar is visible at the very bottom, showing the time as 10:32 PM on 27-07-2025.

Q2. Count unique customers.

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome sql_task.sql x retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad x

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-- Q2. Count unique customers.

SELECT COUNT(DISTINCT "Customer Name") AS unique_customers

FROM retail_sales_cleaned;

Data Output

Messages

Notifications

Showing rows: 1 to 1

Page No: 1

of 1

unique_customers

bigint

1

6

Total rows: 1

Query complete 00:00:00.140

CRLF

Ln 4, Col 27

27°C

Rain

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ENG IN

11:05 PM

27-07-2025

Q3. Find the total number of orders per month.

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome sql_task.sql X retail_sales/postgr... X retail_sales/postgres@PostgreSQL 17* X

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad

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-- Q3. Find the total number of orders per month.

SELECT

TO_CHAR("Order Date", 'YYYY-MM') AS order_month,

COUNT(*) AS total_orders

FROM retail_sales_cleaned

GROUP BY order_month

ORDER BY order_month;

Data Output

Messages

Notifications

Showing rows: 1 to 6

Page No: 1 of 1

	order_month text	total_orders bigint
1	2022-01	744
2	2022-02	672
3	2022-03	744
4	2022-04	720
5	2022-05	744
6	2022-06	376

Successfully run. Total query runtime: 93 msec. 6 rows affected.

Total rows: 6

Query complete 00:00:00.093

CRLF

Ln 3, Col 1

27°C
Rain

Search

11:07 PM
27-07-2025

Q4. Calculate average shipping time (in days).

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

QueryQuery History

Scratch Pad x

1-- Q4. Calculate average shipping time (in days).

2

3SELECT

4AVG("Ship Date" - "Order Date") AS avg_shipping_days

5FROM retail_sales_cleaned;

6

Data OutputMessagesNotifications

Showing rows: 1 to 1Page No: 1 of 1

	avg_shipping_days
1	1 day

Total rows: 1Query complete 00:00:00.134

CRLF Ln 3, Col 1

Air: Satisfactory Tomorrow

Search

05:05 PM 28-07-2025

Q5. Count number of orders shipped on the same day as order.

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad x

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-- Q5. Count number of orders shipped on the same day as order.

SELECT

COUNT(*) AS same_day_orders

FROM retail_sales_cleaned

WHERE "Ship Date"::date = "Order Date"::date;

Data Output

Messages

Notifications

Showing rows: 1 to 1

Page No: 1 of 1

same_day_orders

bigint

1

0

Total rows: 1

Query complete 00:00:00.059

CRLF

Ln 4, Col 1

Upcoming Earnings

Search

05:07 PM 28-07-2025

Q6. Total sales and profit by region.

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad x

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-- Q6. Total sales and profit by region.

SELECT

"Region",

SUM("Sales") AS total_sales,

SUM("Profit") AS total_profit

FROM retail_sales_cleaned

GROUP BY "Region"

ORDER BY "Region";

Data Output

Messages

Notifications

Showing rows: 1 to 4

Page No: 1

of 1

	Region	total_sales	total_profit
	text	double precision	double precision
1	Central	596879.39999999996	177471.99999999613
2	East	475480.20000000397	141375.99999999753
3	South	482561.82000000042	143481.59999999744
4	West	468398.580000000374	139270.39999999976

Total rows: 4

Query complete 00:00:00.162

CRLF

Ln 3, Col 1

2 News for you

Breaking News:...

Search

ENG IN

05:12 PM

28-07-202

Q7. Top 5 products by total sales.

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* ×

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad ×

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-- Q7. Top 5 products by total sales.

SELECT

"Product Name",

SUM("Sales") AS total_sales

FROM retail_sales_cleaned

GROUP BY "Product Name"

ORDER BY total_sales DESC

LIMIT 5;

Data Output

Messages

Notifications

Showing rows: 1 to 5

Page No: 1 of 1

	Product Name text	total_sales double precision
1	Desk	346493.5499999998
2	Printer	344470.22999999975
3	Pen	341435.24999999965
4	Paper	336376.9499999995
5	Stapler	334353.6299999994

Total rows: 5

Query complete 00:00:00.152

CRLF

Ln 9, Col 9

5 cm of rain
Tuesday

Search

05:16 PM
28-07-2025

Q8. Which region has the highest average discount?

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* ×

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad ×

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-- Q8. Which region has the highest average discount?

SELECT

"Region",

AVG("Discount") AS avg_discount

FROM retail_sales_cleaned

GROUP BY "Region"

ORDER BY avg_discount DESC

LIMIT 1;

Data Output

Messages

Notifications

Showing rows: 1 to 1

Page No: 1

of 1

	Region text	avg_discount double precision
1	Central	0.150000000000000324

Total rows: 1

Query complete 00:00:00.136

CRLF

Ln 3, Col 1

4 Heavy rain Tomorrow

Search

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05:19 PM 28-07-2025

Q9. Which customers have placed the most number of orders?

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FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17*

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad

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-- Q9. Which customers have placed the most number of orders?

SELECT

"Customer Name",

COUNT(*) AS total_orders

FROM retail_sales_cleaned

GROUP BY "Customer Name"

ORDER BY total_orders DESC;

Data Output

Messages

Notifications

Showing rows: 1 to 6

Page No: 1 of 1

	Customer Name	total_orders
	text	bigint
1	David	852
2	Eva	652
3	Alice	647
4	Frank	628
5	Bob	617
6	Charlie	604

Total rows: 6

Query complete 00:00:00.090

CRLF

Ln 2, Col 1

Trending videos

Stranger Things...

Search

ENG IN

05:23 PM

28-07-2025

Q10. Find customers who ordered more than 5 times.

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FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* ×

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad ×

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-- Q10. Find customers who ordered more than 5 times.

SELECT

"Customer Name",

COUNT(*) AS total_orders

FROM retail_sales_cleaned

GROUP BY "Customer Name"

HAVING COUNT(*) > 5

ORDER BY total_orders DESC;

Data Output

Messages

Notifications

Showing rows: 1 to 6

Page No: 1 of 1

	Customer Name text	total_orders bigint
1	David	852
2	Eva	652
3	Alice	647
4	Frank	628
5	Bob	617
6	Charlie	604

Total rows: 6

Query complete 00:00:00.103

CRLF

Ln 5, Col 1

28°C

Light rain

Search

05:27 PM

28-07-2025

Q11. Find top 3 customers by total profit generated

pgAdmin 4

FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

QueryQuery HistoryScratch Pad x

1-- Q11. Find top 3 customers by total profit generated

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4SELECT

5"Customer Name",

6SUM("Profit") AS total_profit

7FROM retail_sales_cleaned

8GROUP BY "Customer Name"

9ORDER BY total_profit DESC

10LIMIT 3;

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Data OutputMessagesNotifications

Showing rows: 1 to 3Page No: 1 of 1

	Customer Name text	total_profit double precision
1	David	128140.799999999802
2	Eva	98060.799999999919
3	Alice	97308.799999999922

Successfully run. Total query runtime: 124 msec. 3 rows affected.

Total rows: 3Query complete 00:00:00.124

28°C
Light rain

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IN

05:31 PM
28-07-2025

Q12. Sales, quantity, and profit by category and sub-category.

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FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

Query

Query History

Scratch Pad x

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-- Q12. Sales, quantity, and profit by category and sub-category.

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SELECT

"Category",

"Sub-Category",

SUM("Sales") AS total_sales,

SUM("Quantity") AS total_quantity,

SUM("Profit") AS total_profit

FROM retail_sales_cleaned

GROUP BY "Category", "Sub-Category"

ORDER BY "Category", "Sub-Category";

Data Output

Messages

Notifications

Showing rows: 1 to 18

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	Category text	Sub-Category text	total_sales double precision	total_quantity numeric	total_profit double precision
1	Furniture	Accessories	104200.98000000003	1049	30982.400000000114
2	Furniture	Binders	103189.32000000003	1038	30681.60000000011
3	Furniture	Chairs	110270.940000000032	1037	32787.20000000013
4	Furniture	Phones	102177.66000000003	933	30380.80000000011
5	Furniture	Storage	95096.040000000027	958	28275.200000000088
6	Furniture	Tables	153266.489999999985	1510	45571.20000000025
7	Office Supplies	Accessories	115320.340000000024	1162	34201.20000000014

Total rows: 18

Query complete 00:00:00.062

CRLF

Ln 11, Col 37

28°C

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05:33 PM

28-07-2025

Q13. Sub-category with highest discount.

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FileObjectToolsEditViewWindowHelp

Welcome retail_sales/postgres@PostgreSQL 17* x

retail_sales/postgres@PostgreSQL 17

QueryQuery HistoryScratch Pad x

1-- Q13. Sub-category with highest discount.

2

3SELECT

4"Sub-Category",

5AVG("Discount") AS avg_discount

6FROM retail_sales_cleaned

7GROUP BY "Sub-Category"

8ORDER BY avg_discount DESC

9LIMIT 1;

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Data OutputMessagesNotifications

Showing rows: 1 to 1Page No: 1 of 1

	Sub-Category text	avg_discount double precision
1	Tables	0.15000000000000246

Total rows: 1Query complete 00:00:00.128CRLFLn 3, Col 1

628°C
Light rain

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ENG IN05:35 PM
28-07-2025