







The screenshot displays the pgAdmin 4 web interface. On the left, the 'Servers' tree shows 'PostgreSQL 12' expanded, with 'Databases (2)' and 'postgres' visible. The 'Query Editor' is active, showing the following SQL query:

```
select minion.name, master.name from minion join master on Master.nationality= Minion.nationality;
```

The 'Data Output' tab is selected, displaying the query results in a table with two columns: 'name' (character varying (20)) and 'name' (character varying (15)). The results are as follows:

	name	name
1	Mark	Adolf Hitler
2	Steve	Guru
3	Phil	Guru
4	Stuart	Guru
5	Lance	Frankenstein
6	Paul	Ivan Dracula
7	Dave	Ivan Dracula
8	Steve	Mojo Jojo
9	Phil	Mojo Jojo
10	Stuart	Mojo Jojo
11	Steve	Loki

A green notification box at the bottom right indicates: 'Successfully run. Total query runtime: 93 msec. 18 rows affected.'







pgAdmin 4

New Tab

127.0.0.1:50012/browser/

Apps anime anime2 Ellipse drawing - ta... manhua taimanhua ranime Satomi Tamura - M... arrayphp array php php string meed to watch project test fantasy manga

pgAdmin

File Object Tools Help

Browsers

Servers (1)

- PostgreSQL 12
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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

```
1 (select name,minion_id from minion natural join training
2 where minion_id = trainer)
3 intersect
4 (select name,minion_id from minion as m natural join involved_in as i
5 where i.minion_id = m.minion_id);
6
7
8
```

Scratch Pad

Data Output Explain Messages Notifications

	name character varying (20)	minion_id numeric (4)
1	Bob	302
2	Mike	308

Successfully run. Total query runtime: 81 msec. 2 rows affected.

Windows Taskbar

Search: Type here to search

Taskbar Icons: File Explorer, Mail, Teams, Intel, Chrome, etc.

System Tray: 19:00, 22-09-2020

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File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

1 select avg(hiring\_charge) from minion as m join takes\_training as t  
2 on m.minion\_id=t.minion\_id;  
3  
4  
5

Scratch Pad

Data Output Explain Messages Notifications

avg  
numeric

1 88.7500000000000000

Successfully run. Total query runtime: 93 msec. 1 rows affected.

Windows Taskbar

Type here to search

Taskbar Icons

System Tray

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File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

```
1 select description from evilness as e1 , minion as m1
2 where ( m1.age=8 )
3 intersect
4 (
5     select description from evilness
6     where level=3
7     union
8     select description from evilness
9     where level=4
10 );
11
12
```

Scratch Pad

Data Output Explain Messages Notifications

	description character varying (20)
1	Yawn
2	Tickle

Successfully run. Total query runtime: 88 msec. 2 rows affected.

Windows Taskbar

Search: Type here to search

Taskbar Icons: File Explorer, Mail, Teams, Intel, Chrome, etc.

System Tray: 19:01, 22-09-2020



pgAdmin 4

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pgAdmin

File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

1 select description from evilness as e1 join minion as m2 on e1.evill\_id=m2.evillness

2 where age>7 ;

3

4

5

Data Output Explain Messages Notifications

description

character varying (20)

1 Yawn

2 Yawn

3 Sneeze

4 Itch

5 Itch

Successfully run. Total query runtime: 119 msec. 5 rows affected.

Windows Taskbar

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Taskbar Icons

System Tray

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New Tab

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File Object Tools Help

Browsers

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

1 select mission\_id from mission

2 except

3 select distinct(mission\_id) from involved\_in;

4

5

6

Data Output Explain Messages Notifications

mission\_id numeric (4)

1 505

Successfully run. Total query runtime: 87 msec. 1 rows affected.

Windows Taskbar

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Taskbar Icons

System Tray

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

1

2

3

4

5

```
select distinct(mission_id) from involved_in;
```

Data Output Explain Messages Notifications

	mission_id	
	numeric (4)	
1	503	
2	504	
3	502	
4	501	

Successfully run. Total query runtime: 89 msec. 4 rows affected.

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19:01 22-09-2020

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

1

2

3

4

5

```
select distinct(mission_id) from payment;
```

Data Output

Explain

Messages

Notifications

	mission_id	
	numeric (4)	
1	504	

Successfully run. Total query runtime: 89 msec. 1 rows affected.

Windows Taskbar

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Taskbar Icons

System Tray

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Servers (1)

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

```
1
2
3 select m1.name from minion as m1
4 where m1.gender='F'
5 intersect
6 select m1.name from minion as m1, (involved_in as i join payment as p on i.mission_id= p.mission_id) as
7 where m1.minion_id=t.minion_id;
8
9
10
```

Data Output Explain Messages Notifications

	name	
	character varying (20)	
1	Zugi	

Successfully run. Total query runtime: 84 msec. 1 rows affected.

Windows Taskbar

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Taskbar Icons

System Tray



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File Object Tools Help

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

```
1
2
3 select m1.name from minion as m1
4 where m1.gender='F'
5 intersect
6 select m1.name from minion as m1, (involved_in as i join payment as p on i.mission_id<> p.mission_id) as
7 where m1.minion_id=t.minion_id;
8
9
10
11
```

Data Output Explain Messages Notifications

	name	
	character varying (20)	
1	Lance	

Successfully run. Total query runtime: 99 msec. 1 rows affected.

Windows Taskbar

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Taskbar Icons: File Explorer, Mail, Teams, Intel, Chrome, etc.

System Tray: 19:02, 22-09-2020, ENG

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File Object Tools Help

Browsers

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Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History

Scratch Pad

1

2

3 select count(\*),gender from minion as m1 natural join involved\_in as i

4 where mission\_id not in

5 (select mission\_id from payment)

6

7 group by gender

8 ;

9

10

11

12

Data Output Explain Messages Notifications

	count	gender
	bigint	character varying (2)
1	3	M
2	1	F

Successfully run. Total query runtime: 111 msec. 2 rows affected.

Windows Taskbar

Search Type here to search

Taskbar Icons

System Tray

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pgAdmin File Object Tools Help

Browser Servers (1) PostgreSQL 12 Databases (2) postgres t Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Schemas Login/Group Roles Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents t/postgres@PostgreSQL 12 \*

t/postgres@PostgreSQL 12

Query Editor Query History Scratch Pad

```
1
2
3 select name from minion as m1 natural join involved_in as i
4
5 except
6 (
7 select name from minion as m1 natural join takes_training as t
8
9 );
10
11
12
```

Data Output Explain Messages Notifications

	name	
	character varying (20)	
1	Mike	
2	Lance	
3	Bob	

Successfully run. Total query runtime: 90 msec. 3 rows affected.

Type here to search

19:02 22-09-2020