

pgLog

un outil d'analyse de logs

PgSessions - Paris

2021-11-17

A grayscale photograph of a person holding a grey board in front of their face. The board has a large white question mark at the top and a white dot below it. A black horizontal bar is overlaid across the middle of the image, containing the text 'Qui suis-je?' in bright pink. The person is wearing a dark t-shirt with some faint graphics on the sleeve.

Qui suis-je?



Qui suis-je?

mydbanotebook.org

A grayscale photograph of a person holding a grey card with a white question mark in front of their face. The person is wearing a dark t-shirt. The background is a plain, light-colored wall.

Qui suis-je?

mydbanotebook.org
@l_avrot

The image features two identical car wheels, one slightly behind and to the left of the other, creating a sense of depth. The wheels have a multi-spoke, polished silver or chrome finish. A thick, solid black horizontal bar is superimposed across the center of the wheels. On this bar, the French text "Pourquoi réinventer la roue?" is written in a bold, bright pink, sans-serif font. The background is a plain, light-colored surface, possibly a studio backdrop, which makes the wheels and the text stand out prominently.

Pourquoi réinventer la roue?



Comment l'installer?

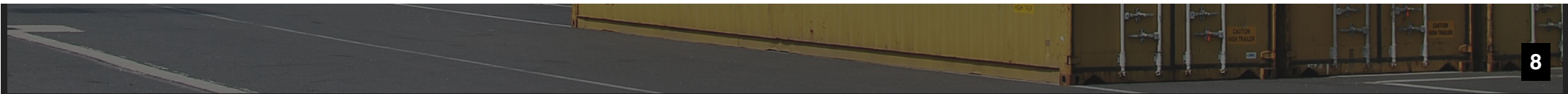




Utilisons docker

```
docker build -t pglog_postgresql .
```

```
docker run -d --rm -P --name pglog postgres/pglog_postgresql
```





Tutorial

Comment l'utiliser?

A white ceramic mug with a simple black smiley face (two dots for eyes and a curved line for a mouth) is placed on a dark brown wooden table. The background is a bright, out-of-focus window with light streaming through. A black horizontal bar is overlaid across the middle of the image, containing the text 'La table pglog' in a bright pink, sans-serif font.

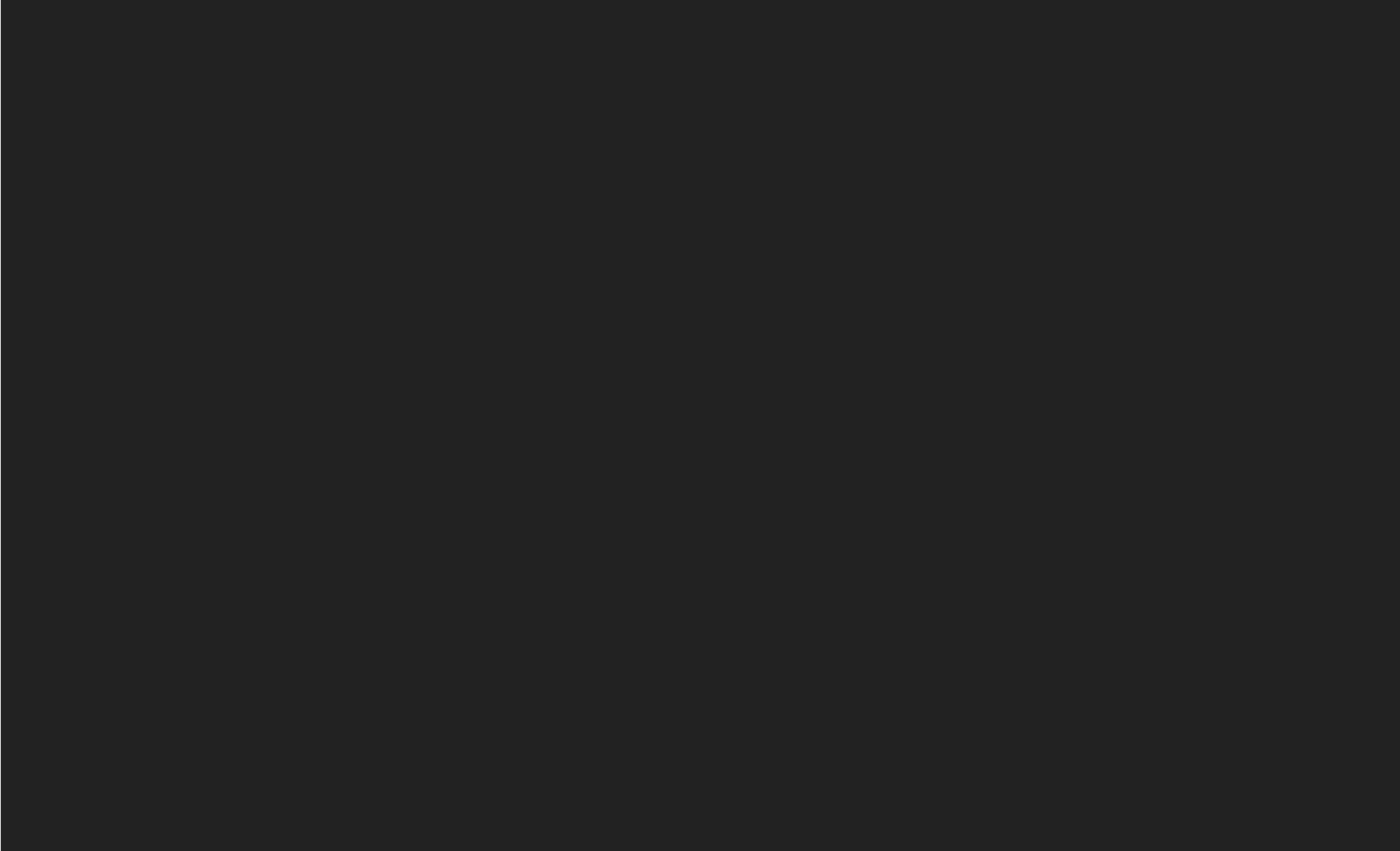
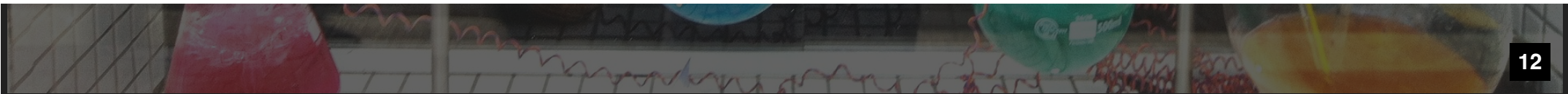
La table pglog

Rapport d'erreurs

```
select * from error_report;
```

error_severity	nb	percentage
FATAL	8	0.00
ERROR	106	0.00
WARNING	3	0.00
LOG	6055776	100.00

(4 rows)



Rapport détaillé sur un niveau d'erreur

```
select * from error_analyze_fatal;  
      message
```

```
count
```

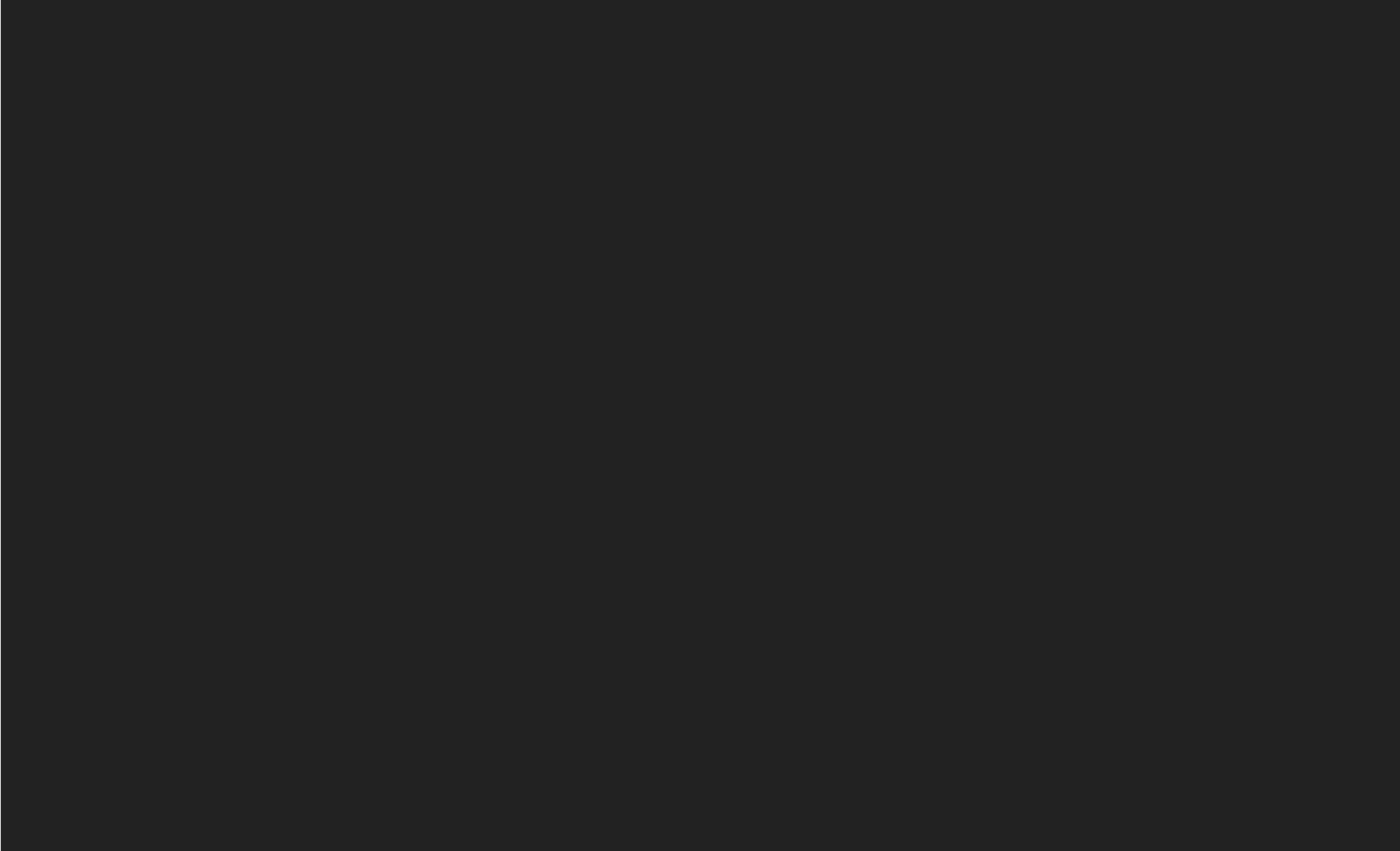
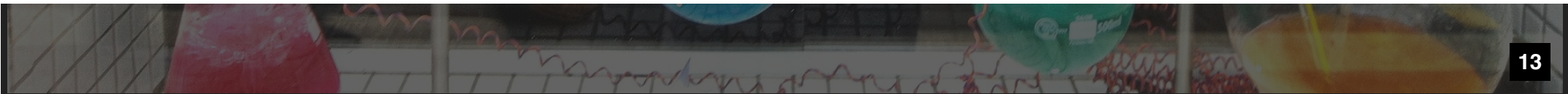
```
-----+-----+  
terminating connection due to administrator command
```

```
7
```

```
connection to client lost
```

```
2
```

```
(2 rows)
```

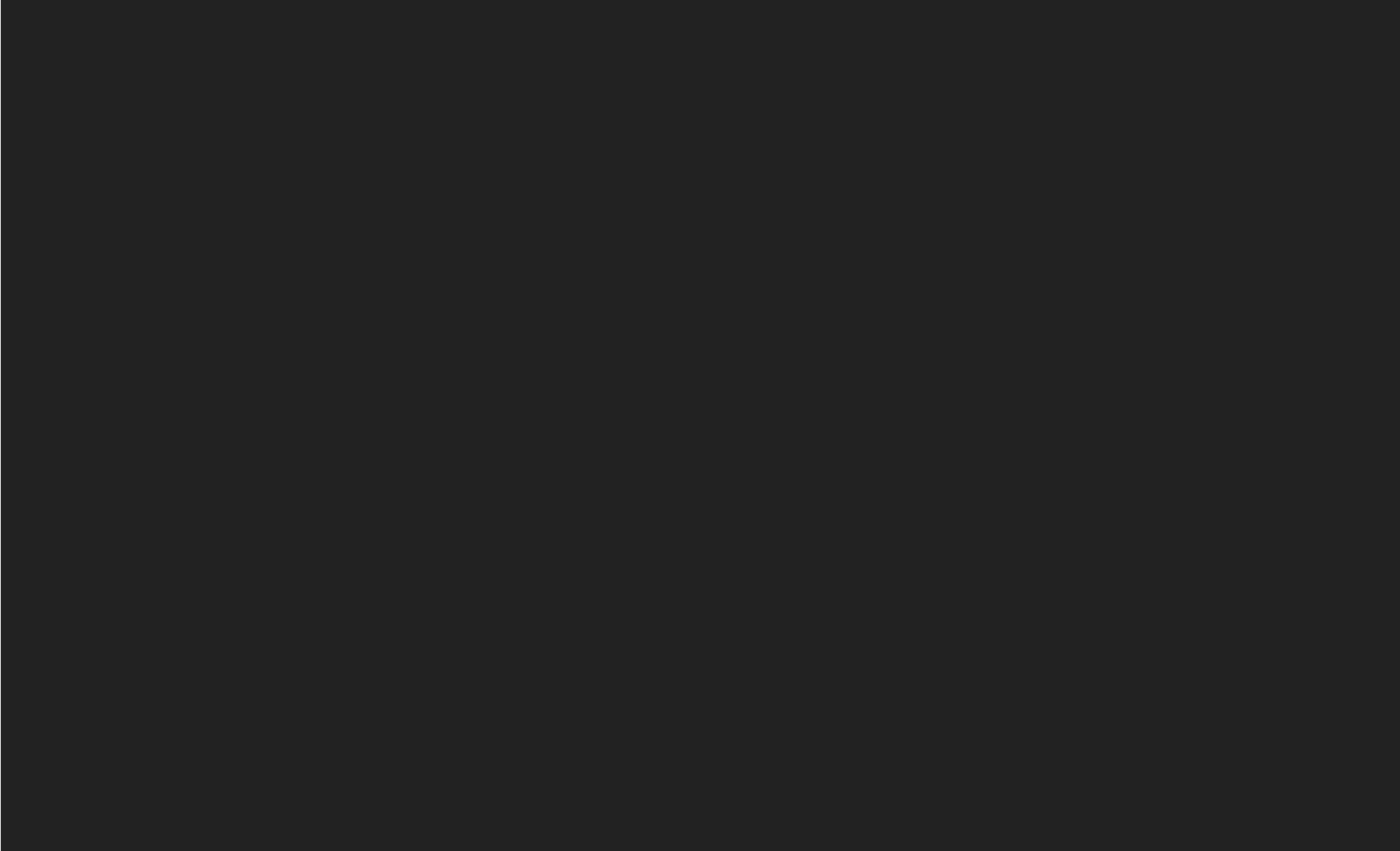
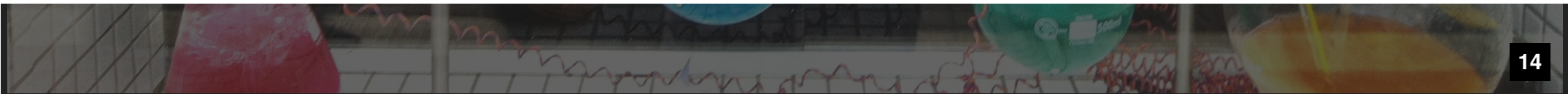


Rapport sur l'autovacuum

```
select * from autovacuum_report
order by vacuum_count desc fetch first 5 rows only;
```

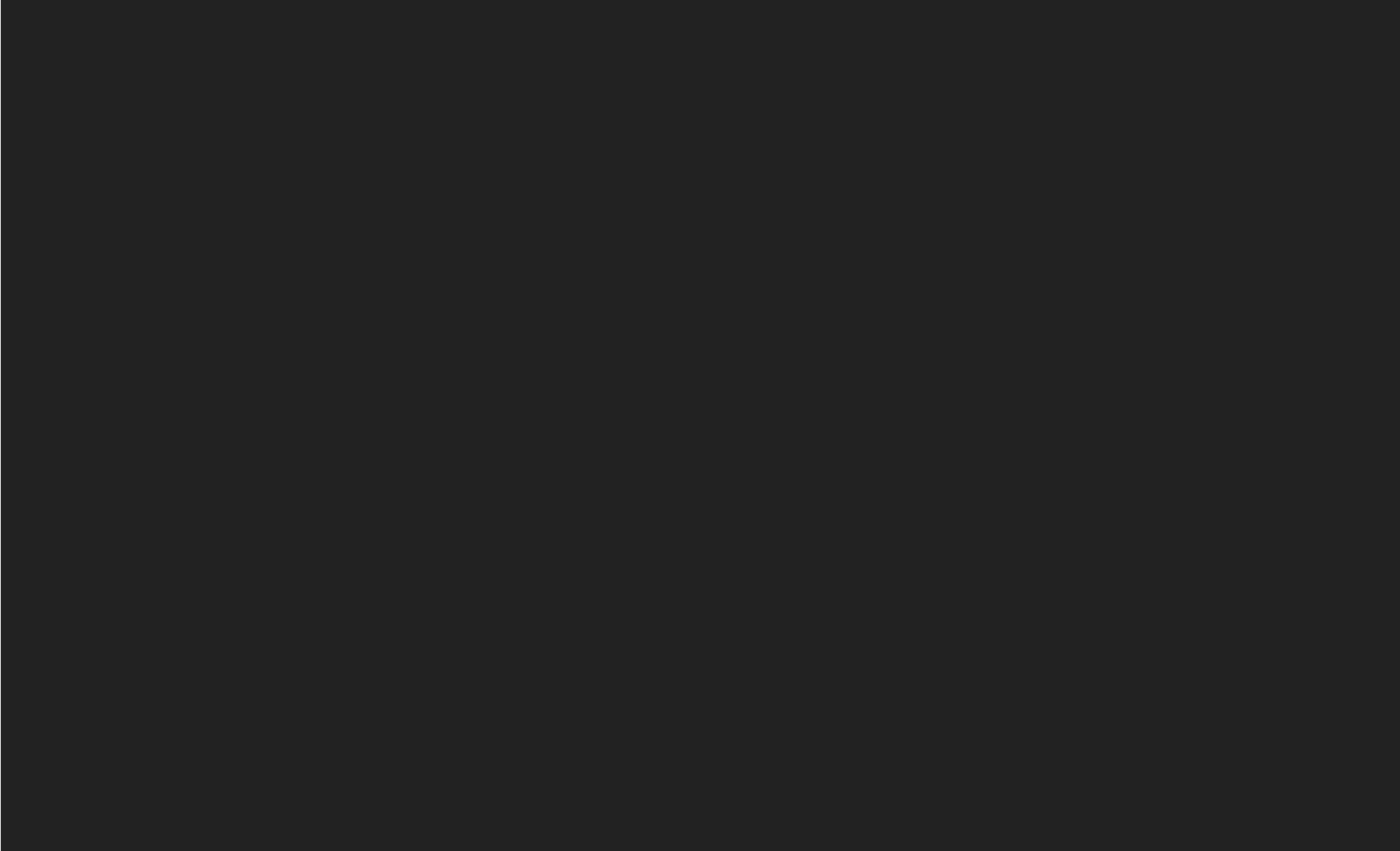
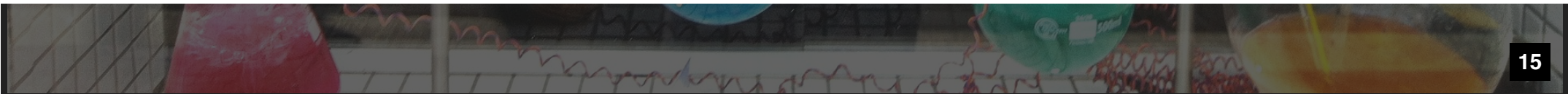
schema_name	table_name	vacuum_count	analyze_count
pg_catalog	pg_statistic	24	0
pg_catalog	pg_attribute	15	14
pglog	postgresqlwed	8	7
pg_catalog	pg_class	7	7
pg_catalog	pg_type	6	6

(5 rows)



Statistiques de checkpoint

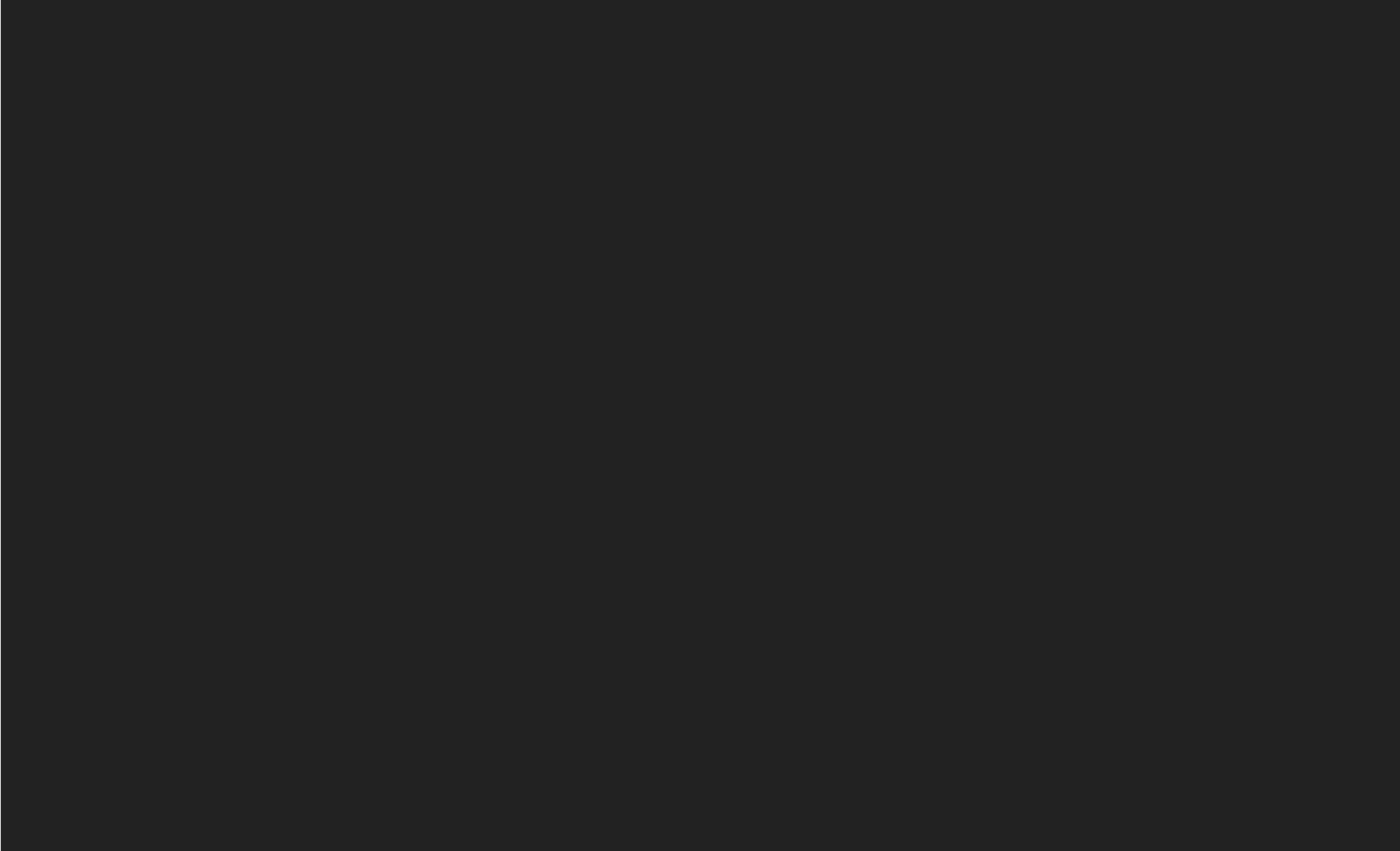
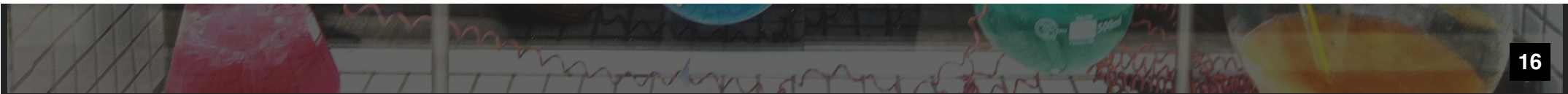
```
select * from checkpoints_stats;  
$  
 avg_checkpoint_freq | median_checkpoint_freq | avg_checkpoint_  
-----+-----+-----  
 06:01:55.491981    | 00:15:00.809          | 00:00:32.44728  
(1 row)
```



Plus de précisions

```
pglog=# select * from checkpoints_stats_by_hour;
```

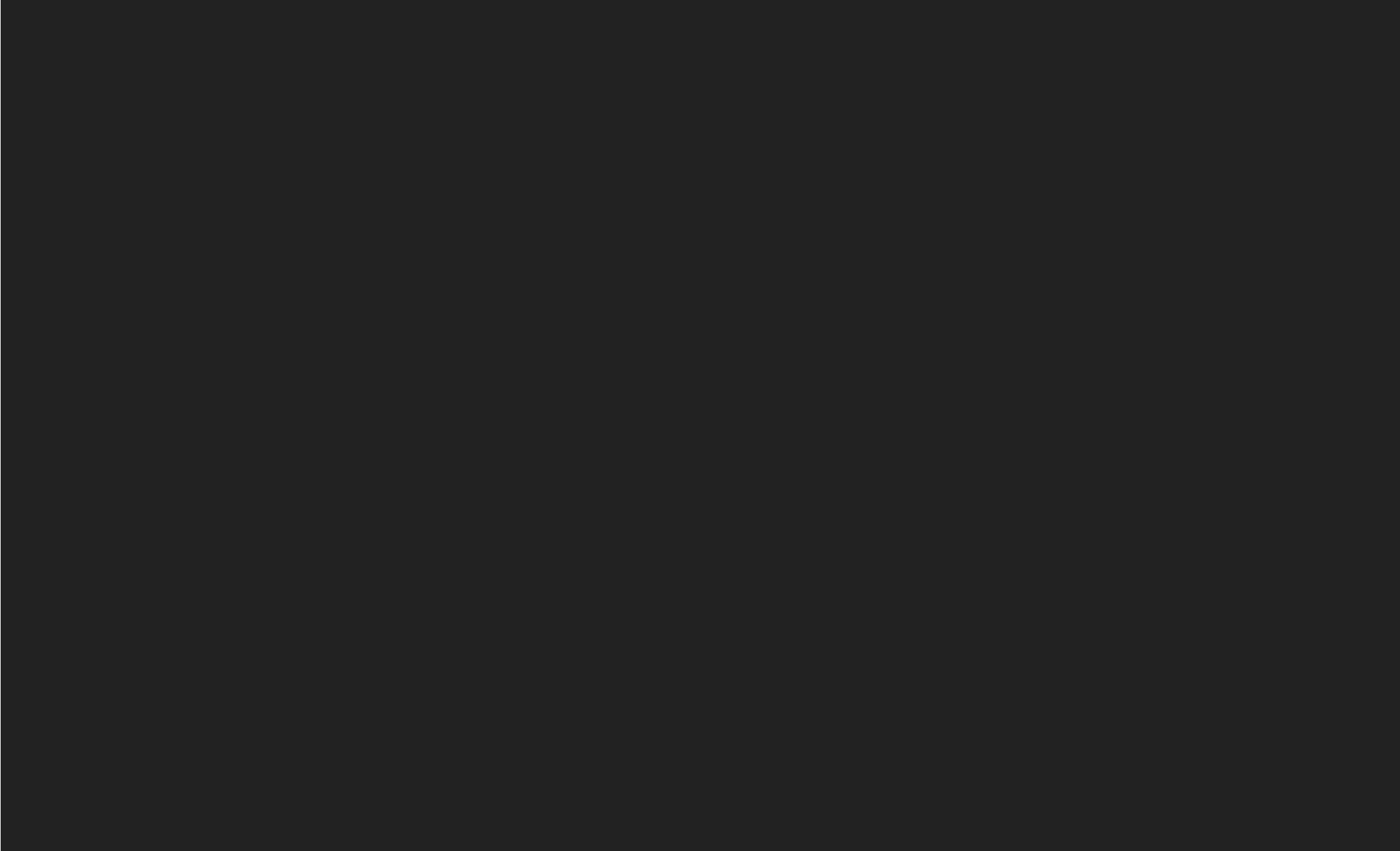
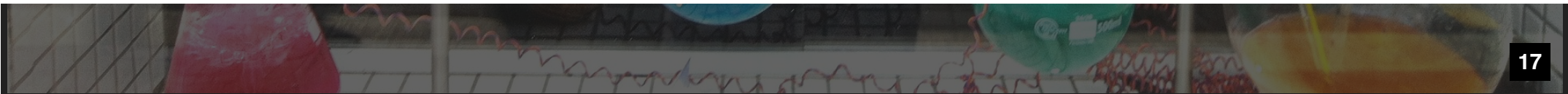
date_part	avg_checkpoint_freq	median_checkpoint_freq	av
6	03:31:43.989333	00:04:59.941	00
7	22:36:05.281917	00:15:00.809	00
8	00:21:22.5615	00:15:01.661	00
9	00:39:21.674167	00:30:17.2415	00
10	00:16:09.9175	00:16:09.9175	00
11	00:37:25.941667	00:12:22.328	00
12	01:11:27.7846	00:40:00.957	00
13	00:15:19.55725	00:07:56.6295	00
15	04:13:58.037	04:13:58.037	00
16	02:58:23.038333	00:25:00.427	00
17	00:15:00.34025	00:07:30.346	00
19	01:02:31.026	01:02:31.026	00



Fichiers temporaires

```
pglog=# select * from tempfile_report\gx
```

```
-[ RECORD 2 ]---+-----  
min           | 8192 kB  
max           | 374 GB  
global_average | 57 GB  
10%          | 5720 MB  
20%          | 5720 MB  
30%          | 5720 MB  
40%          | 6000 MB  
50%          | 32 GB  
60%          | 33 GB  
70%          | 36 GB  
80%          | 142 GB  
90%          | 144 GB  
100%         | 374 GB
```

Requêtes utilisant des Fichiers temporaires

```
select * from tempfile_queries order by frequency  
fetch first 2 rows only\gx
```

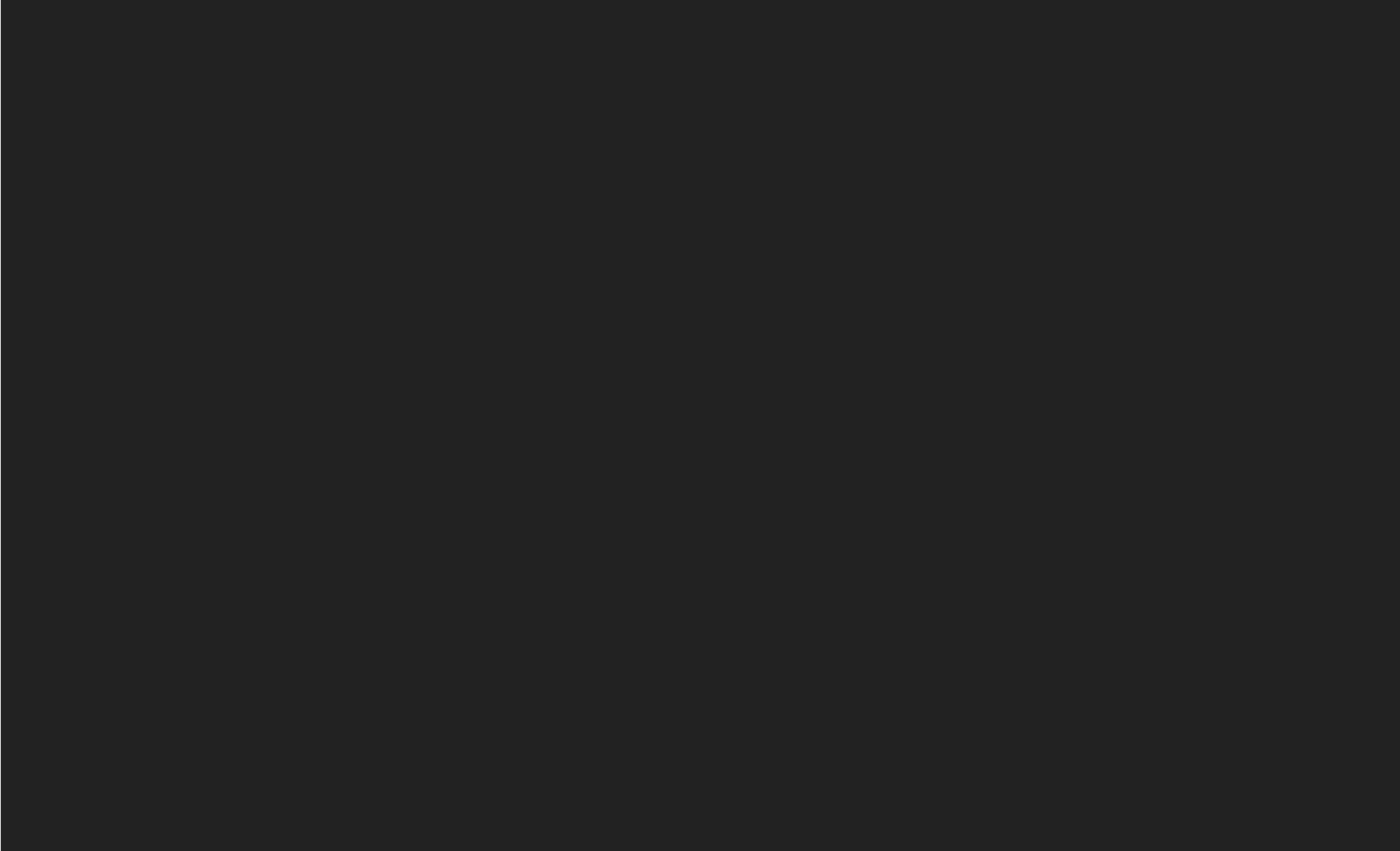
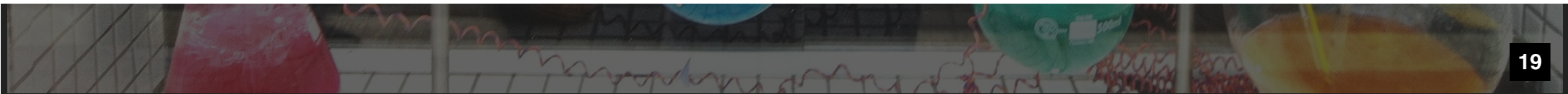
```
-[ RECORD 1 ]-----+-----  
frequency                | 154  
query_tempfilesize_median | 6000 MB  
query_tempfilesize_average | 30 GB  
total_size                | 4655 GB  
query                    | call create_mylogs (?,true);
```



Requêtes lentes

```
pglog=# select *  
from top_n_slowest_queries  
order by "average" desc  
fetch first 1 rows only;
```

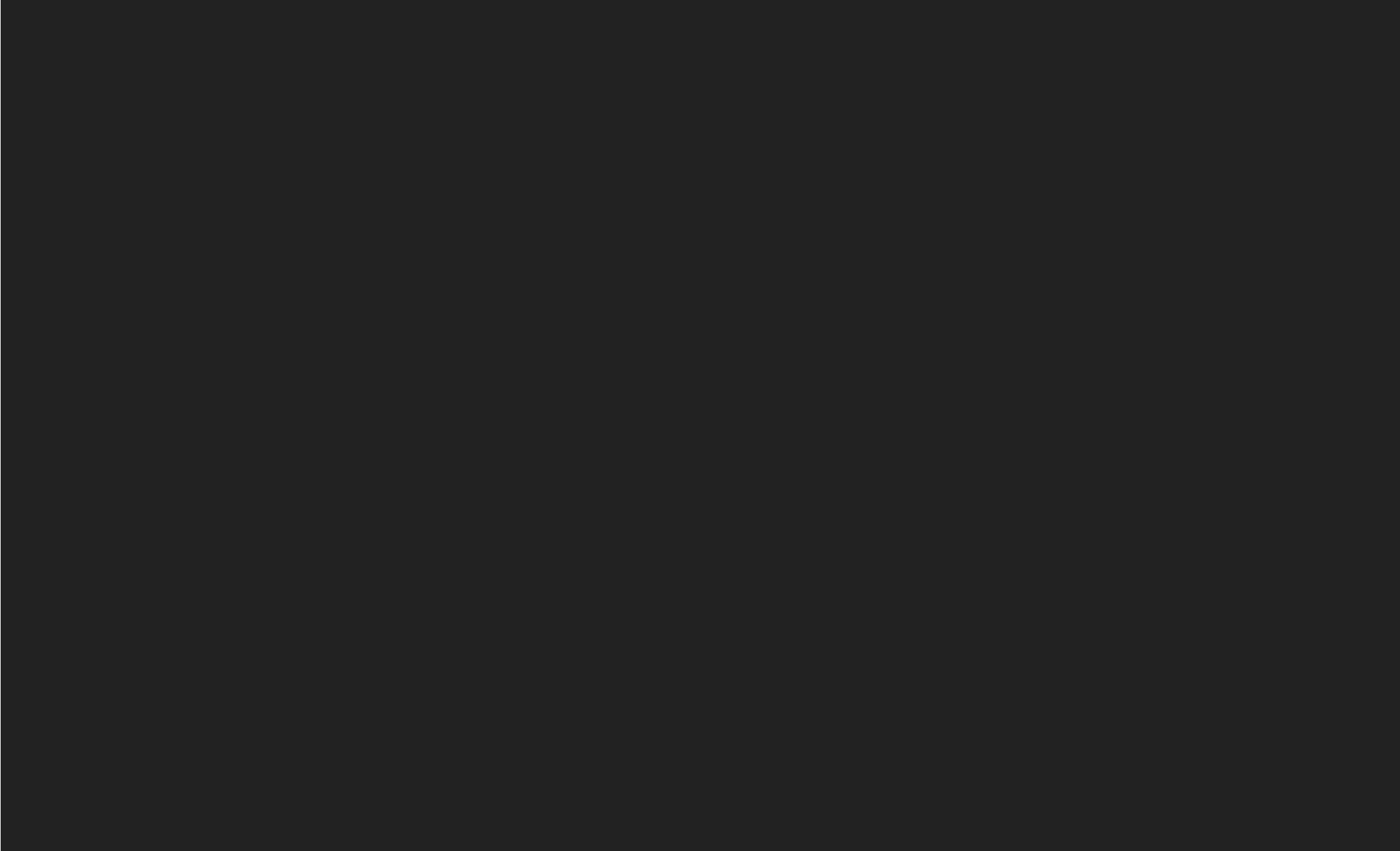
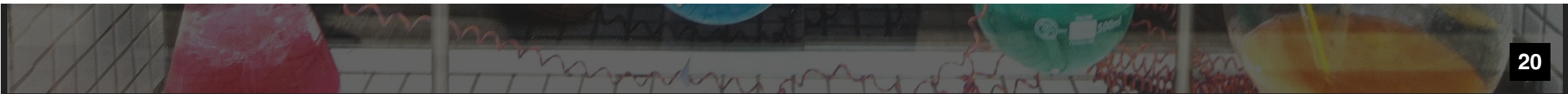
```
-[ RECORD 1 ]-----  
query      | with queries as ( select split_part(message, ? ) ) s  
count      | 1  
average    | 26384.688000000000  
median     | 26384.688
```



Statistiques des sessions

```
select * from sessions_stats ;
```

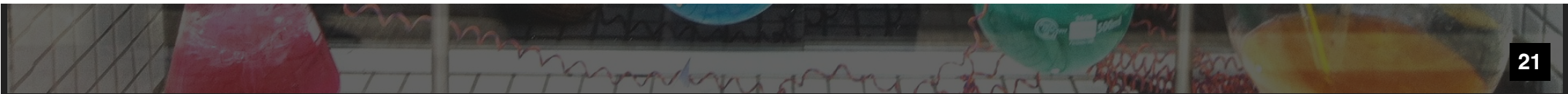
min_duration	max_duration	avg_duration	user_name
00:00:00.033	00:41:05.38	00:05:32.636933	postgres
00:02:41.311	156:33:45.673	43:09:49.903	postgres
00:00:03.538	00:00:06.231	00:00:04.8845	postgres
00:00:00.003	00:00:00.013	00:00:00.007333	postgres



Rapport de connexions

```
select * from connections_report ;
```

user_name	database_name	frequency	connect
postgres	mybench	00:23:57.488429	
postgres	pglog	10 days 12:05:08.038667	
postgres	postgres	00:04:20.521	
postgres	template1	00:00:00.519	

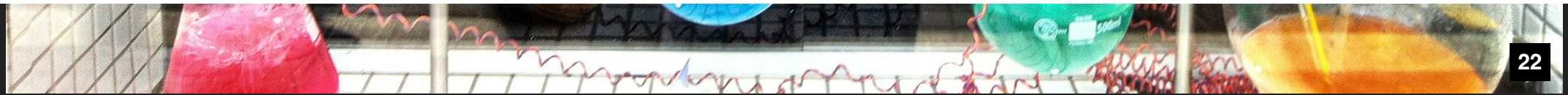




Ce qui est vraiment important

https://gitlab.com/l_avrot/pglog





A man with short dark hair, wearing a light blue button-down shirt, is shown from the chest up. He is looking upwards and to the right with a thoughtful expression, his hand resting on his chin. The background is a light gray color with several large, faint question marks scattered throughout. A black horizontal bar is positioned across the middle of the image, containing the text "Des questions?" in a bright pink, bold, sans-serif font.

Des questions?

