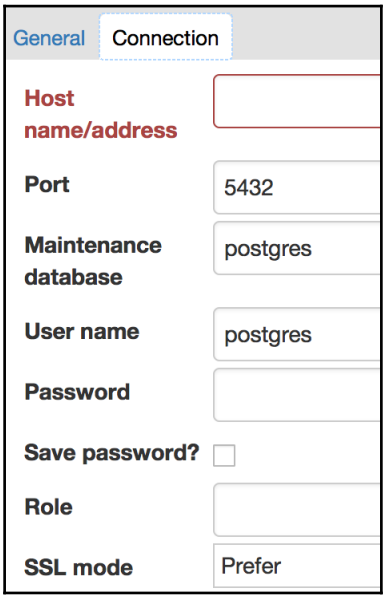
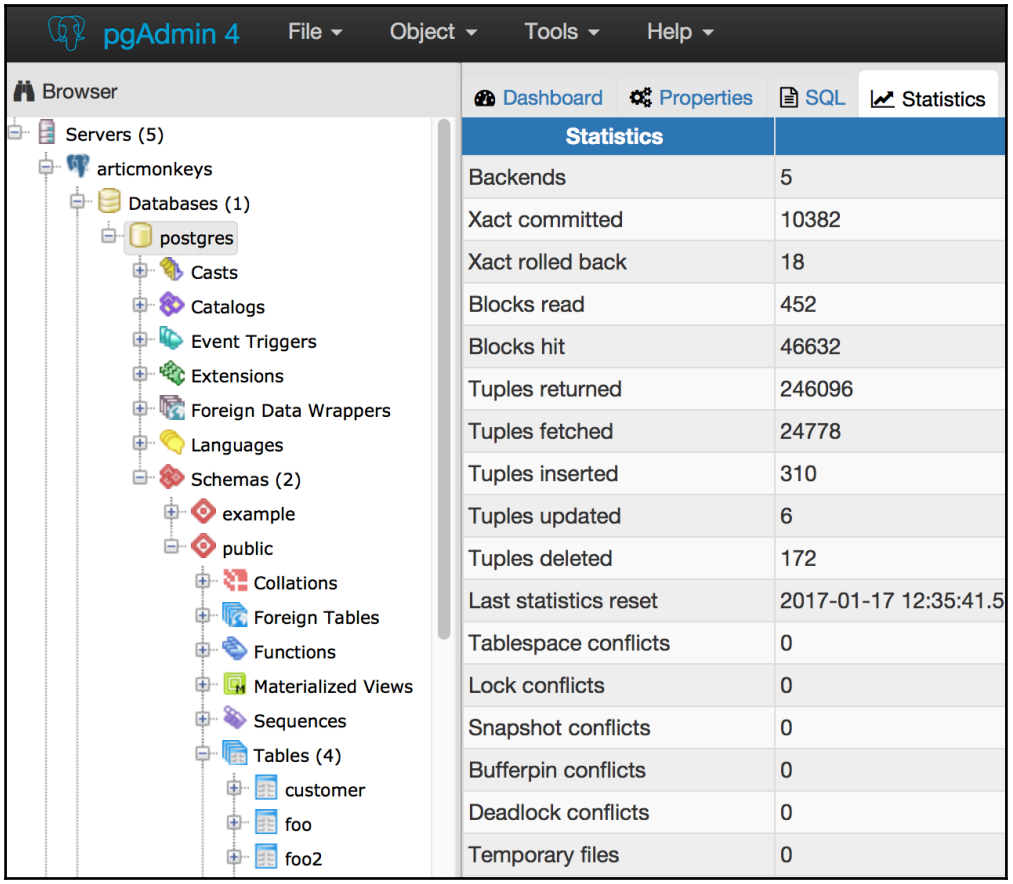
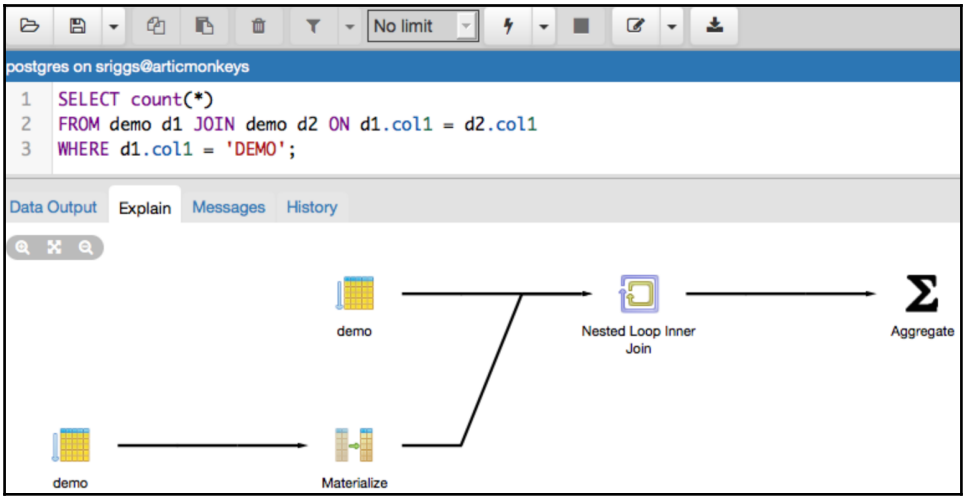
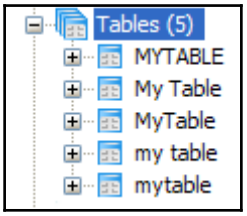
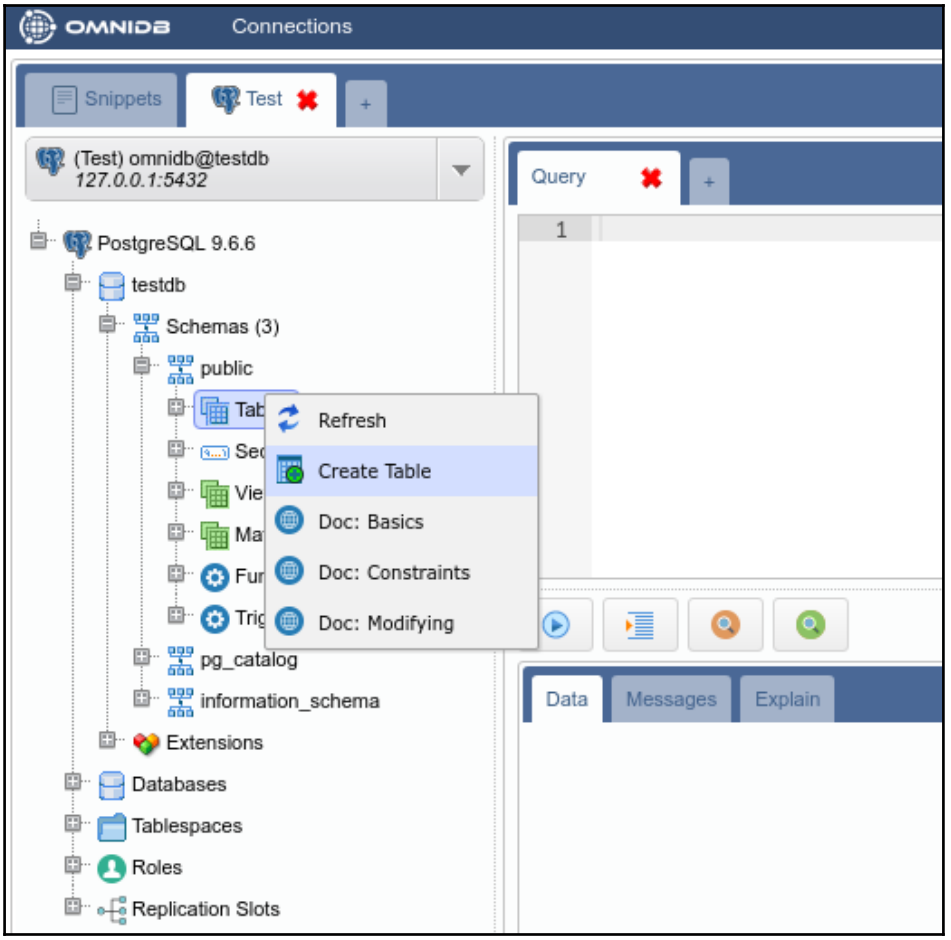
Chapter 01: First Steps

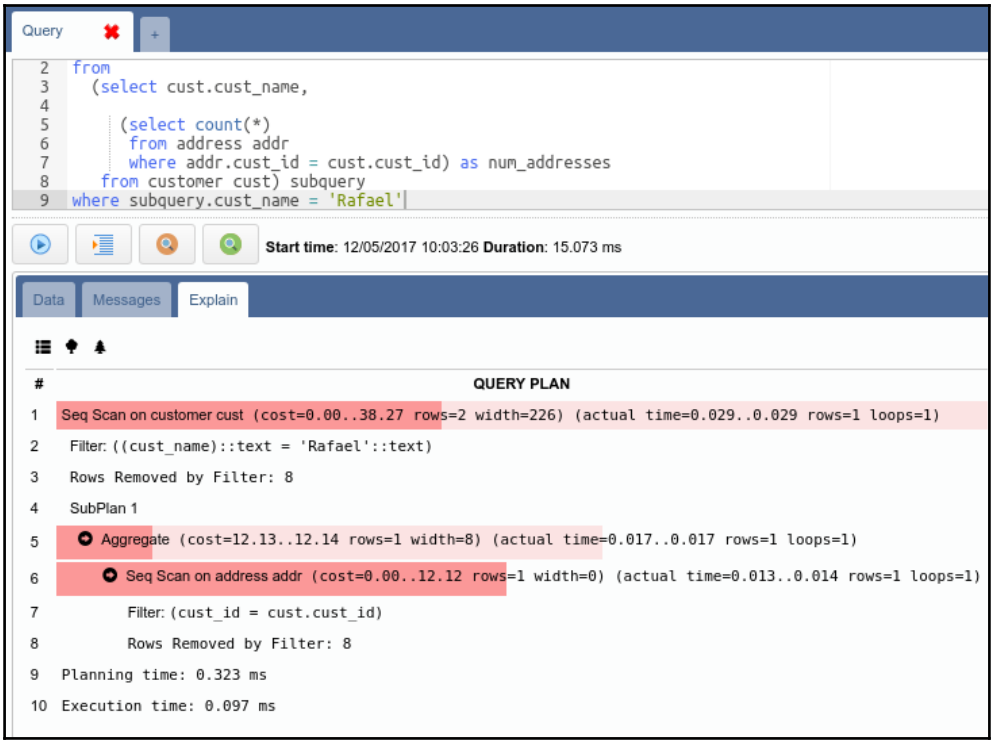



pgAdmin 4
File
Object
Tools
Help
Browser
Servers (5)
articmonkeys
Databases (1)
postgres
Casts
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Schemas (2)
example
public
Collations
Foreign Tables
Functions
Materialized Views
Sequences
Tables (4)
customer
foo
foo2
Dashboard
Properties
SQL
Statistics
Statistics
Backends 5
Xact committed 10382
Xact rolled back 18
Blocks read 452
Blocks hit 46632
Tuples returned 246096
Tuples fetched 24778
Tuples inserted 310
Tuples updated 6
Tuples deleted 172
Last statistics reset 2017-01-17 12:35:41.5
Tablespace conflicts 0
Lock conflicts 0
Snapshot conflicts 0
Bufferpin conflicts 0
Deadlock conflicts 0
Temporary files 0

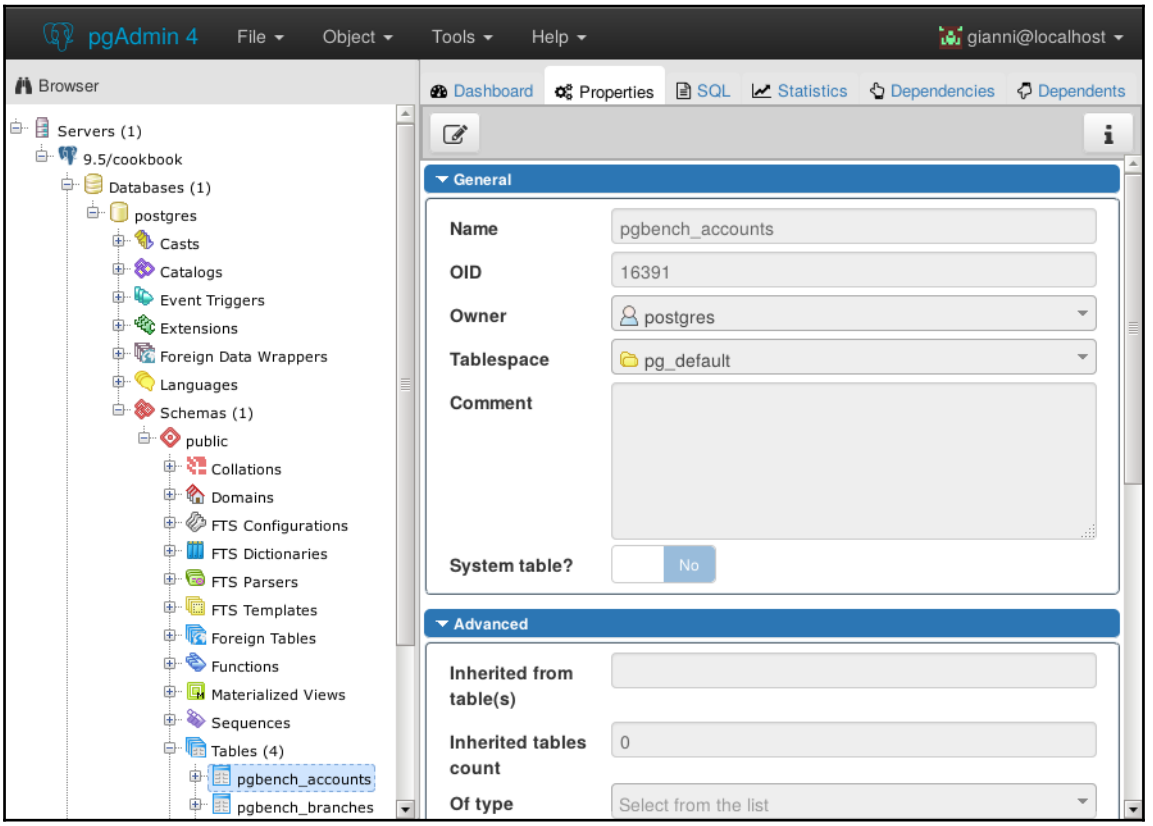

No limit
postgres on sriggs@articmonkeys
1 SELECT count(*)
2 FROM demo d1 JOIN demo d2 ON d1.col1 = d2.col1
3 WHERE d1.col1 = 'DEMO';
Data Output
Explain
Messages
History
demo
Nested Loop Inner Join
Aggregate
demo
Materialize


Tables (5)
MYTABLE
My Table
MyTable
my table
mytable

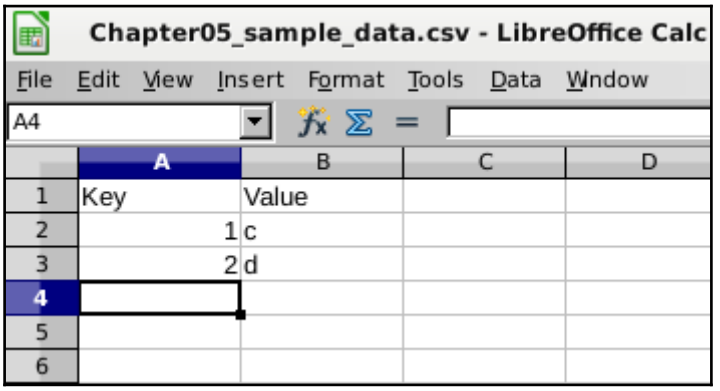

OMNIDB
Connections
Snippets
Test
(Test) omnidb@testdb
127.0.0.1:5432
PostgreSQL 9.6.6
testdb
Schemas (3)
public
Refresh
Create Table
Doc: Basics
Doc: Constraints
Doc: Modifying
pg_catalog
information_schema
Extensions
Databases
Tablespaces
Roles
Replication Slots
Query
1
Data
Messages
Explain


Query
2 from
3 (select cust.cust_name,
4
5 (select count(*)
6 from address addr
7 where addr.cust_id = cust.cust_id) as num_addresses
8 from customer cust) subquery
9 where subquery.cust_name = 'Rafael'
Start time: 12/05/2017 10:03:26 Duration: 15.073 ms
Data
Messages
Explain
QUERY PLAN
1 Seq Scan on customer cust (cost=0.00..38.27 rows=2 width=226) (actual time=0.029..0.029 rows=1 loops=1)
2 Filter: ((cust_name)::text = 'Rafael'::text)
3 Rows Removed by Filter: 8
4 SubPlan 1
5 Aggregate (cost=12.13..12.14 rows=1 width=8) (actual time=0.017..0.017 rows=1 loops=1)
6 Seq Scan on address addr (cost=0.00..12.12 rows=1 width=0) (actual time=0.013..0.014 rows=1 loops=1)
7 Filter: (cust_id = cust.cust_id)
8 Rows Removed by Filter: 8
9 Planning time: 0.323 ms
10 Execution time: 0.097 ms

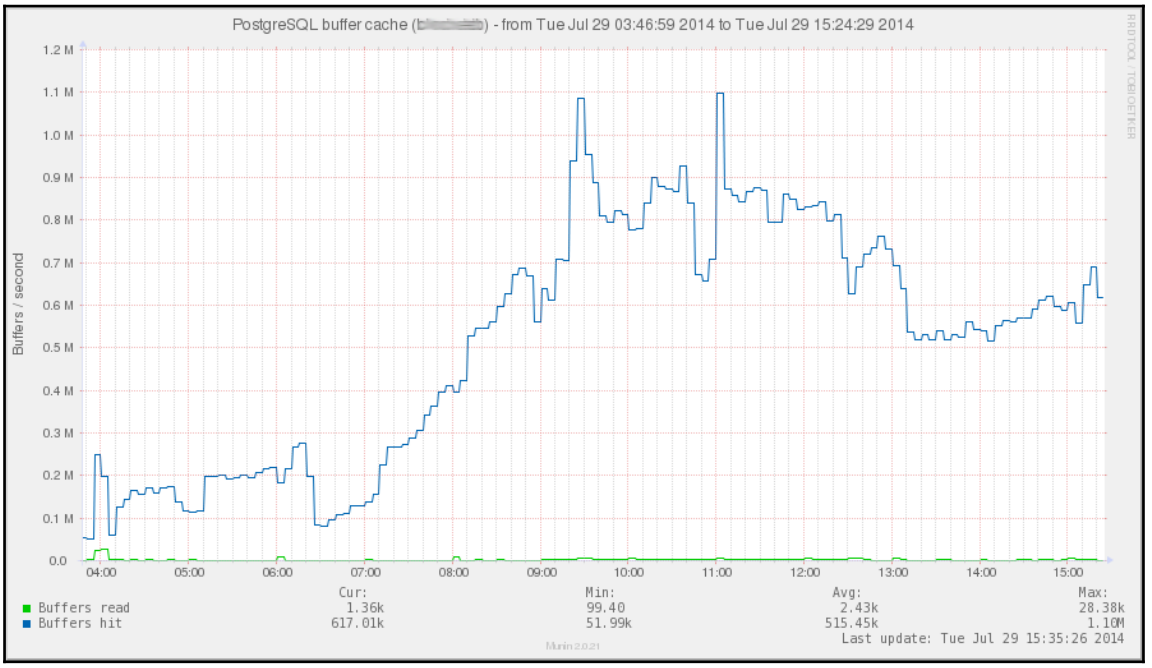
Chapter 02: Exploring the Database



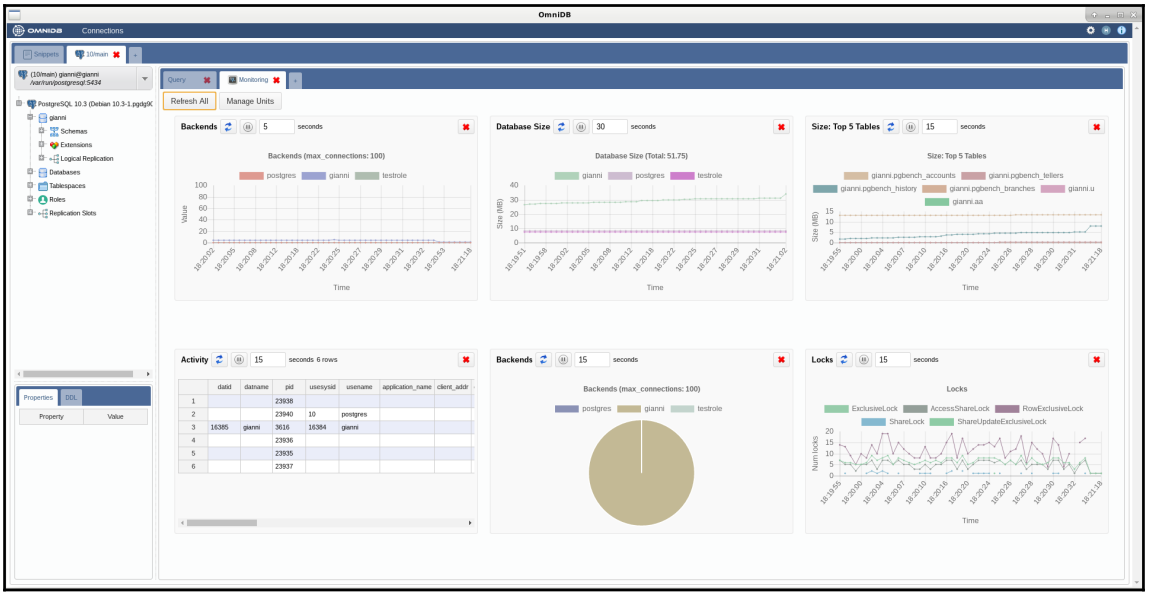
Chapter 05: Tables and Data

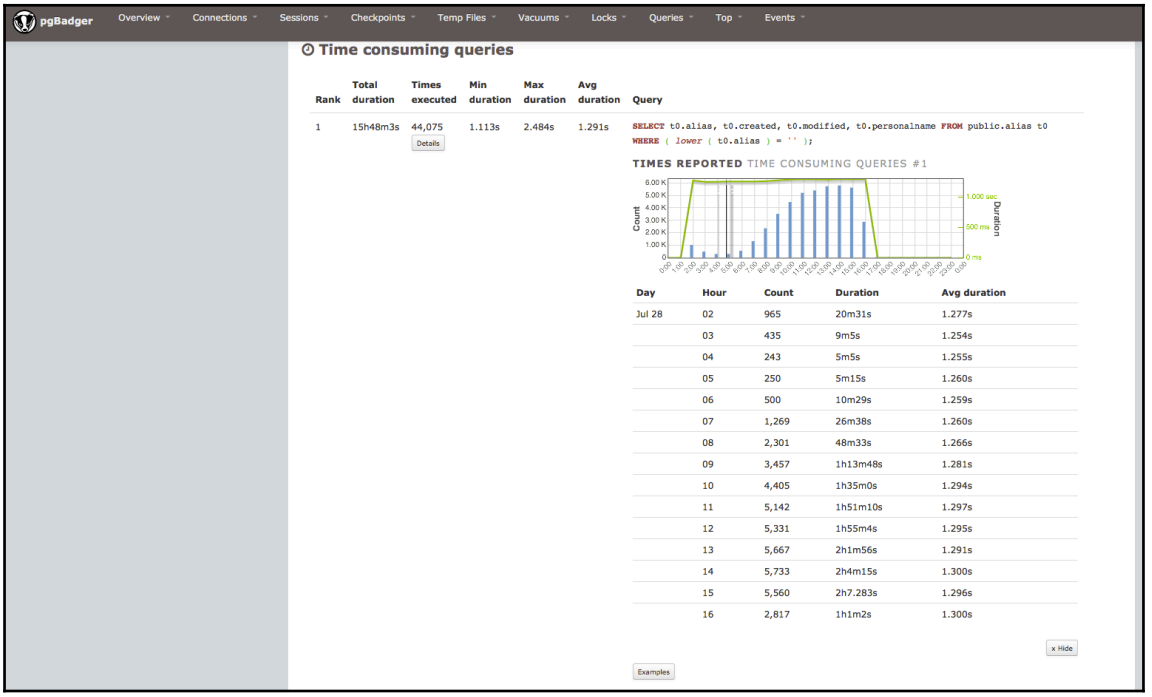


Chapter 08: Monitoring and Diagnosis

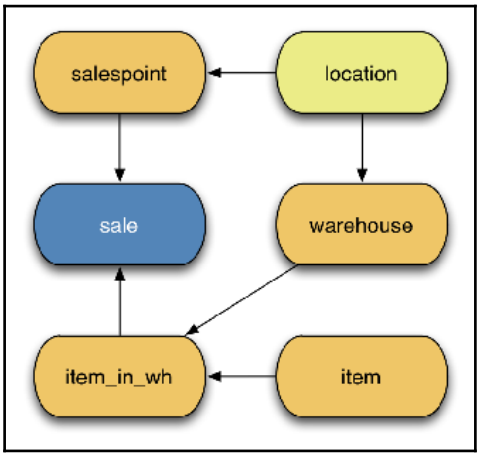
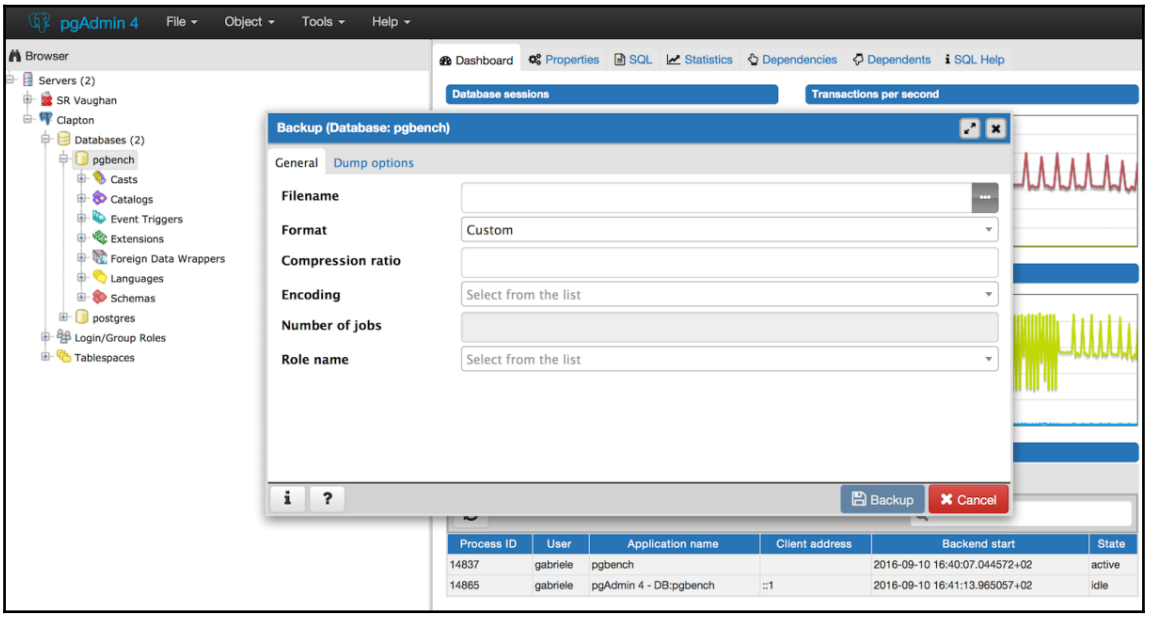


Dashboard
Server sessions
Active
Idle
Total
Transactions per second
Commits
Rollbacks
Transactions
Tuples in
Inserts
Updates
Deletes
Tuples out
Fetched
Returned
Block I/O
Reads
Hits
Server activity
Sessions
Locks
Prepared Transactions
Configuration
PID Database User Application Client Backend start State Waiting?
4397 postgres gianni pgAdmin 4 - DB:postgres 2017-04-21 00:10:51 BST active
5186 cookbook gianni pgbench 2017-04-21 00:12:12 BST active
5187 cookbook gianni pgbench 2017-04-21 00:12:12 BST active
5188 cookbook gianni pgbench 2017-04-21 00:12:12 BST active
5189 cookbook gianni pgbench 2017-04-21 00:12:12 BST active


OmniDB
Connections
Refresh All
Manage Units
Backends
Database Size
Size: Top 5 Tables
Activity
Locks
Backends (max_connections: 100)
Database Size (Total: 51.75)
Size: Top 5 Tables
Locks
postgres
gianni
testrole
Time


pgBadger
Overview
Connections
Sessions
Checkpoints
Temp Files
Vacuums
Locks
Queries
Top
Events
Time consuming queries
Rank
Total duration
Times executed
Min duration
Max duration
Avg duration
Query
1
15h48m3s
44,075
1.113s
2.484s
1.291s
Details
SELECT t0.alias, t0.created, t0.modified, t0.personalname FROM public.alias t0
WHERE (lower (t0.alias) = '');
TIMES REPORTED TIME CONSUMING QUERIES #1
Count
Duration
Day
Hour
Count
Duration
Avg duration
Jul 28
02
965
20m31s
1.277s
03
435
9m5s
1.254s
04
243
5m5s
1.255s
05
250
5m15s
1.260s
06
500
10m29s
1.259s
07
1,269
26m38s
1.260s
08
2,301
48m33s
1.266s
09
3,457
1h13m48s
1.281s
10
4,405
1h35m0s
1.294s
11
5,142
1h51m10s
1.297s
12
5,331
1h55m4s
1.295s
13
5,667
2h1m56s
1.291s
14
5,733
2h4m15s
1.300s
15
5,560
2h7.283s
1.296s
16
2,817
1h1m2s
1.300s
x Hide
Examples

Chapter 10: Performance and Concurrency



Chapter 11: Backup and Recovery