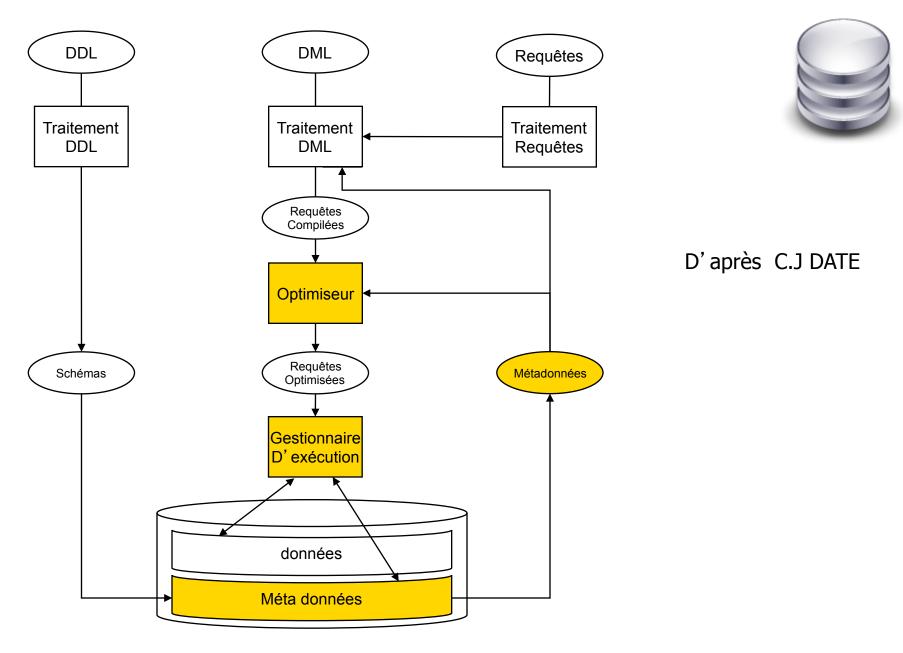




Conception Avancée de Bases de Données

pg_class





DDL : langage de définition des données; DML : langage de manipulation des données

Emmanuel fuchs Conception Avancée de Bases de Données

pg_class



- Postgresql documentation
 - http://www.postgresql.org/docs/9.0/static/catalog-pgclass.html

 The catalog pg_class catalogs tables and most everything else that has columns or is otherwise similar to a table.

pg_class



- Total number of entries in each table :
 - Raw, Tuples
- The number of disk blocks occupied by each table and index
 - Disk Pages (blocks)

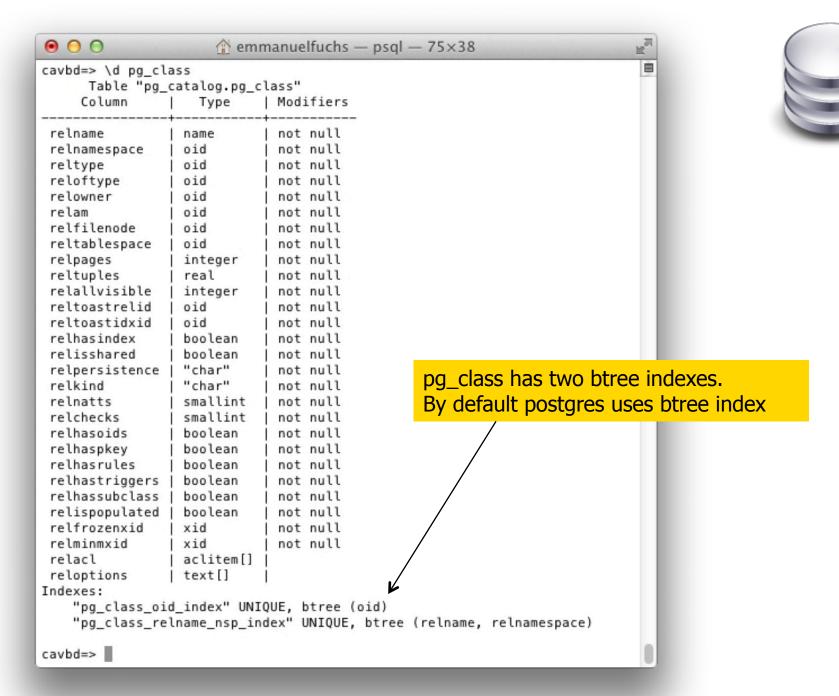
```
0 0
                      emmanuelfuchs — psql — 75×38
cavbd=> \d pg_class
     Table "pg catalog.pg class"
                              Modifiers
     Column
                    Type
 relname
                              not null
                  name
 relnamespace
                  oid
                              not null
 reltype
                  oid
                              not null
 reloftype
                  oid
                              not null
 relowner
                  oid
                              not null
                  oid
 relam
                              not null
 relfilenode
                  oid
                              not null
 reltablespace
                  oid
                              not null
relpages
                  integer
                              not null
reltuples
                              not null
                  real
 relallvisible
                  integer
                              not null
 reltoastrelid
                  oid
                              not null
 reltoastidxid
                  oid
                              not null
                              not null
 relhasindex
                  boolean
 relisshared
                  boolean
                              not null
 relpersistence
                  "char"
                              not null
 relkind
                  "char"
                              not null
 relnatts
                  smallint
                              not null
 relchecks
                  smallint
                              not null
 relhasoids
                  boolean
                              not null
relhaspkey
                  boolean
                              not null
 relhasrules
                  boolean
                              not null
 relhastriggers
                              not null
                  boolean
 relhassubclass
                 boolean
                              not null
 relispopulated
                  boolean
                              not null
 relfrozenxid
                  xid
                              not null
 relminmxid
                  xid
                              not null
                  aclitem[]
 relacl
reloptions
                | text[]
Indexes:
    "pg class oid index" UNIQUE, btree (oid)
    "pg_class_relname_nsp_index" UNIQUE, btree (relname, relnamespace)
cavbd=>
```



pg_class attributes name:

rel : Relation

- relname : Relation Name
 - Name of the relation/table.
- reltuples : Relation Tuples
 - Number of lines in the table
- relpages : Relation pages
 - Number of pages



R creation



r pg_class



Stat

```
0 0 0
                                                emmanuelfuchs - psql - 171×27
cavbd=> \x
Expanded display is on.
cavbd=> select * from pg_stats where tablename='r';
-[ RECORD 1 ]-----
schemaname
                        public
tablename
                        ri
attname
inherited
                        f
null_frac
avg_width
n_distinct
                        11
most common vals
                       {6,7,3,8,4,5,2,9,1,10,0}
                        {0.102433,0.1017,0.100867,0.1008,0.100433,0.0987667,0.0983667,0.0979,0.0974667,0.0522333,0.0490333}
most_common_freqs
histogram_bounds
correlation
                        0.0961845
most_common_elems
most_common_elem_freqs
elem count histogram
cavbd=> SELECT relname, reltuples, relpages FROM pg_class WHERE relname='r';
-[ RECORD 1 ]----
relname | r
reltuples | 1e+06
relpages | 4425
cavbd=>
```

Actual

