

***** Extensions *****

Adminpack :

1: create extension adminpack;

```
SELECT pg_file_write('fo.txt', 'Hello
World', false);
```

-- this function will create fo.txt file and write hello world into it. the next parameter false means it not append the contents in the file if it already exists.

```
SELECT pg_file_write('fo.txt', 'Hello
World', true);
```

-- this function will create fo.txt file and write hello world into it. the next parameter true means it will append the contents in the file if it already exists.

```
SELECT pg_file_rename('fo.txt', 'bar.txt');
```

-- this function will rename the file.

```
SELECT pg_file_unlink('bar.txt');
```

-- this function will delete the existing file;

3: Dblink

```
create extension dblink;
```

```
\c world
```

```
create view gg as select * from dblink('dbname=postgres','select * from a')as t1(p
int,p1 int);
```

```
SELECT dblink_connect('dbname=postgres');
SELECT dblink_exec('insert into a values(3,300);');
```

4: chkpass :

This module implements a data type chkpass that is designed for storing encrypted passwords. Each password is automatically converted to encrypted form upon entry, and is always stored encrypted. To compare, simply compare against a clear text password and the comparison function will encrypt it before comparing.

```
create table test (p chkpass);
CREATE TABLE
test=# insert into test values ('hello');
INSERT 0 1
test=# select * from test;
      p
-----
:dVGkpXdOrE3ko
(1 row)
```

```
test=# select raw(p) from test;
```

```
raw
-----
dVGkpXdOrE3ko
(1 row)
```

```
test=# select p = 'hello' from test;
?column?
-----
t
(1 row)
```

5: citext

The citext module provides a case-insensitive character string type, citext. Essentially, it internally calls lower when comparing values. Otherwise, it behaves almost exactly like text.

```
create extension citext;
CREATE EXTENSION
world=# CREATE TABLE users (
        nick CITEXT PRIMARY KEY,
        pass TEXT NOT NULL);
```

6: PostgreSQL provides an extension pageinspect, which is a contribution module, to show the contents of the database pages.

```
testdb=# CREATE EXTENSION pageinspect;
CREATE EXTENSION
testdb=# CREATE TABLE tbl (data text);
CREATE TABLE
testdb=# INSERT INTO tbl VALUES('A');
INSERT 0 1
testdb=# SELECT lp as tuple, t_xmin, t_xmax, t_field3 as t_cid, t_ctid
           FROM heap_page_items(get_raw_page('tbl', 0));
 tuple | t_xmin | t_xmax | t_cid | t_ctid
-----+-----+-----+-----+-----
      1 |      99 |       0 |      0 | (0,1)
(1 row)
```

<http://www.interdb.jp/pg/pgsql05.html>

7: pg buffer cache

```
SELECT c.relname, count(*) AS buffers
       FROM pg_buffercache b INNER JOIN pg_class c
       ON b.relfilenode = pg_relation_filenode(c.oid) AND
          b.reldatabase IN (0, (SELECT oid FROM pg_database
                                WHERE datname = current_database()))
       GROUP BY c.relname
       ORDER BY 2 DESC
       LIMIT 10;
```