

Commandes GRANT REVOKE

Modification des droits sur des objets :

```
GRANT { { SELECT | INSERT | UPDATE | DELETE | RULE | REFERENCES | TRIGGER |
```

```
[,... ] | ALL [ PRIVILEGES ] }
```

```
ON [ TABLE ] table_name [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

```
GRANT { { CREATE | TEMPORARY | TEMP } [, ... ] | ALL [ PRIVILEGES ] }
```

```
ON DATABASE dbname [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

```
GRANT { EXECUTE | ALL [ PRIVILEGES ] }
```

```
ON FUNCTION funcname ([type, ...]) [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

```
GRANT { USAGE | ALL [ PRIVILEGES ] }
```

```
ON LANGUAGE langname [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

```
GRANT { CREATE | USAGE } [, ... ] | ALL [ PRIVILEGES ] }
```

```
ON SCHEMA schemaname [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

```
GRANT { { CREATE | USAGE } [, ... ] | ALL [ PRIVILEGES ] }
```

```
ON SCHEMA schemaname [, ... ]
```

```
TO { username | GROUP groupname | PUBLIC } [, ... ] [ WITH GRANT OPTION ]
```

Pour la syntaxe de REVOKE, simplement remplacer GRANT par REVOKE et TO par FROM ! De plus, l'option WITH GRANT OPTION est transférée en tête sous forme REVOKE [GRANT OPTION FOR]...

Conventions

Les conventions suivantes sont utilisées dans la description des syntaxes :

répétition ... facultatif [] obligatoire { } alternative |

Commande SELECT

Extraction de tuple à partir d'une relation (TABLE VIEW...):

```
SELECT [ ALL | DISTINCT [ ON ( expression [, ... ] ) ] ]
```

```
* | expression [ AS output_name ] [, ... ]
```

```
[ FROM from_item [, ... ] ]
```

```
[ WHERE condition ]
```

```
[ GROUP BY expression [, ... ] ]
```

```
[ HAVING condition [, ... ] ]
```

```
[ { UNION | INTERSECT | EXCEPT } [ ALL ] select ]
```

```
[ ORDER BY expression [ ASC | DESC ] USING operator ] [, ... ] ]
```

```
[ LIMIT { count | ALL } ]
```

```
[ OFFSET start ] ;
```

On from_item peut être :

```
[ ONLY ] table_name [ * ] [ [ AS ] alias [ ( column_alias [, ... ] ) ] ]
```

```
[ LATERAL ] [ ( select ) [ ( alias [ ( column_alias [, ... ] ) ] ]
```

```
[ LATERAL ] function_name ( [ argument [, ... ] ] ) [ AS ] alias
```

```
[ ( column_alias [, ... ] | column_definition [, ... ] ) ]
```

```
[ LATERAL ] function_name ( [ argument [, ... ] ] ) AS ( column_def [, ... ] )
```

```
[ LATERAL ] from_item [ NATURAL ] join_type from_item
```

```
[ ON join_condition | USING ( join_column [, ... ] ) ]
```

Commande UPDATE

Mise à jour d'un tuple dans une relation :

```
UPDATE [ ONLY ] table
```

```
SET column = { expression | DEFAULT } [, ... ] ]
```

```
[ FROM from_list ]
```

```
[ WHERE condition ] ;
```

Commande DELETE

Efface des tuples d'une relation :

```
DELETE FROM [ ONLY ] table [ WHERE condition ] ;
```

Commande INSERT

Ajoute un nouveau tuple dans une relation :

```
INSERT INTO table [ ( column [, ... ] ) ]
  { DEFAULT VALUES
  | VALUES ( { expression | DEFAULT } [, ... ] ) [, ... ]
  | query }
[ ON CONFLICT [ (key-column) ] DO
  { NOTHING | UPDATE SET column_name = ... [, ... ] } ]
```

Commande CREATE TABLE

Création d'une nouvelle table :

```
CREATE [ [ GLOBAL | LOCAL ] { TEMPORARY | TEMP } ] TABLE table_name (
  { column_name data_type [ DEFAULT default_expr ] [ column_constraint [...] ]
  | table_constraint
  | LIKE parent_table [ { INCLUDING | EXCLUDING } DEFAULTS ]
  } [, ... ] )
[ INHERITS ( parent_table [, ... ] ) ]
[ WITH OIDS | WITHOUT OIDS ]
[ ON COMMIT { PRESERVE ROWS | DELETE ROWS | DROP } ] ;
```

Où column_constraint est :

```
[ CONSTRAINT constraint_name ]
{ NOT NULL
| NULL
| UNIQUE
| PRIMARY KEY
| CHECK (expression)
| REFERENCES reftable [( refcolumn )]
  [ MATCH FULL | MATCH PARTIAL | MATCH SIMPLE ]
  [ ON DELETE action ] [ ON UPDATE action ]
}
[ DEFERRABLE | NOT DEFERRABLE ]
[ INITIALLY DEFERRED | INITIALLY IMMEDIATE ]
```

et table_constraint est :

```
[ CONSTRAINT constraint_name ]
{ UNIQUE ( column_name [, ... ] )
| PRIMARY KEY ( column_name [, ... ] )
| CHECK ( expression )
| FOREIGN KEY ( column_name [, ... ] )
  REFERENCES reftable [ ( refcolumn [, ... ] ) ]
  [ MATCH FULL | MATCH PARTIAL | MATCH SIMPLE ]
  [ ON DELETE action ] [ ON UPDATE action ]
}
[ DEFERRABLE | NOT DEFERRABLE ]
[ INITIALLY DEFERRED | INITIALLY IMMEDIATE ]
```

Commande ALTER TABLE

Modification de la définition d'une table :

```
ALTER TABLE [ ONLY ] name [ * ]
{ ADD [ COLUMN ] column type [ column_constraint [ ... ] ]
| DROP [ COLUMN ] column [ RESTRICT | CASCADE ]
| ALTER [ COLUMN ] column { SET DEFAULT expression | DROP DEFAULT }
| ALTER [ COLUMN ] column { SET | DROP } NOT NULL
| ALTER [ COLUMN ] column SET STATISTICS integer
| ALTER [ COLUMN ] column SET STORAGE { PLAIN | EXTERNAL | EXTENDED | MAIN }
| SET WITHOUT OIDS
| RENAME [ COLUMN ] column TO new_column
| ADD table_constraint
| DROP CONSTRAINT constraint_name [ RESTRICT | CASCADE ]
| RENAME TO new_name
| OWNER TO new_owner
| CLUSTER ON index_name
}
```

Commande CREATE INDEX

```
CREATE [ UNIQUE ] INDEX [ CONCURRENTLY ] [ [ IF NOT EXISTS ] name ]
  ON table_name [ USING method ]
  ( { column_name | ( expression ) } [ COLLATE collation ] [ opclass ]
  [ ASC | DESC ] [ NULLS { FIRST | LAST } ] [, ... ] )
[ WITH ( storage_parameter = value [, ... ] ) ]
[ TABLESPACE tablespace_name ]
[ WHERE predicate ]
```

Avec pour method : btree hash gist spgist gin brin

Command DROP

Efface un objet (avec propagation ou non) :

```
DROP { TABLE | VIEW | DATABASE | INDEX | USER | ... } name
  [ CASCADE | RESTRICT ] ;
```

Commande SHOW SET

Consultation et modification des options :

```
SHOW { option_name | ALL } ;
SET option_name TO new_value ;
```