

1 Conventions

Les conventions suivantes sont utilisées dans la description des syntaxes :

répétition ...

facultatif []

obligatoire { }

alternative |

2 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 ] ;
```

Où from_item peut être :

```
[ ONLY ] table_name [ * ] [ [ AS ] alias [ ( column_alias [, ...] ) ] ]  
( select ) [ AS ] alias [ ( column_alias [, ...] ) ]  
function_name ( [ argument [, ...] ] ) [ AS ] alias  
[ ( column_alias [, ...] | column_definition [, ...] ) ]  
SHOW { option_name | ALL } ;  
SET option_name TO new_value ;
```

8 Command DROP

Efface un objet (avec propagation ou non) :

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

9 Commandes GRANT REVOKE

Modification des droits sur des objets :

```
GRANT { { SELECT | INSERT | UPDATE | DELETE | RULE | REFERENCES | TRIGGER }  
[, ...] | ALL [ PRIVILEGES ] }  
ON [ TABLE ] table_name [, ...]  
TO { user_name | GROUP groupname | PUBLIC } [, ...] [ WITH GRANT OPTION ]
```

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

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

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

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

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

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

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

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

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

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

```
TO { user_name | 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]...

10 Commande SHOW SET

Consultation et modification des options :

3 Commande INSERT

Ajoute un nouveau tuple dans une relation :

```
INSERT INTO table [ ( column [, ...] ) ]
{ DEFAULT VALUES
| VALUES ( { expression | DEFAULT } [, ...] )
| query
}
```

4 Commande UPDATE

Mise à jour d'un tuple dans une relation :

```
UPDATE [ ONLY ] table
  SET column = { expression | DEFAULT } [, ...]
  [ FROM fromlist ]
  [ WHERE condition ] ;
```

5 Commande DELETE

Efface des tuples d'une relation :

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

6 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 ]
```

7 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
}
```