

Jeu de cellules

```
import psycopg2

# Connexion à la base postgres existante (pas à une base à créer)
conn = psycopg2.connect(
    dbname="dbz_cell",
    user="postgres",
    password="postgres",
    host="localhost",
    port="5432"
)

conn.autocommit = True # indispensable pour CREATE DATABASE
# cur = conn.cursor()
# cur.execute("CREATE DATABASE dbz_fights;")
# cur.close()
conn.close()
print("Base dbz_cell créée avec succès ✅")
```

Base dbz_fights créée avec succès ✅

```
%reload_ext sql
%sql postgresql+psycopg2://postgres:postgres@localhost:5432/dbz_cell
```

```
%%sql

DROP TABLE IF EXISTS fighters;

CREATE TABLE fighters (
    id SERIAL PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
    race VARCHAR(75),
    power_level INT,
    fights VARCHAR(75),
    status BOOLEAN DEFAULT true
);
```

```
postgresql+psycopg2://postgres:***@localhost:5432
* postgresql+psycopg2://postgres:***@localhost:5432/dbz_cell
Done.
Done.

[]
```

```
%%sql

DROP TABLE IF EXISTS arenes;

CREATE TABLE arenes (
    id SERIAL PRIMARY KEY,
```

```

name VARCHAR(75),
city VARCHAR(75)
);

```

```

postgresql+psycpg2://postgres:***@localhost:5432

```

```

* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell

```

```

Done.

```

```

Done.

```

```

[]

```

```

%%sql

```

```

DROP TABLE IF EXISTS matchs;

```

```

CREATE TABLE matchs (
  id SERIAL PRIMARY KEY,
  fighter1_id INTEGER,
  fighter2_id INTEGER,
  winner INTEGER,
  arene_id INTEGER,
  FOREIGN KEY (fighter1_id) REFERENCES fighters(id),
  FOREIGN KEY (fighter2_id) REFERENCES fighters(id),
  FOREIGN KEY (arene_id) REFERENCES arenes(id)
);

```

```

postgresql+psycpg2://postgres:***@localhost:5432

```

```

* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell

```

```

Done.

```

```

Done.

```

```

[]

```

```

%%sql

```

```

INSERT INTO fighters (name, race, power_level, fights) VALUES
('Goku','Saiyan',3000000,null),
('Vegeta','Saiyan',2500000,null),
('Piccolo','Namekian',1200000,null),
('Krillin','Humain',300000,null),
('Frieza','Alien',5000000,null),
('Zarbon','Alien',1500000,null),
('Dodoria','Alien',1200000,null),
('Captain Ginyu','Alien',2000000,null);

```

```

postgresql+psycpg2://postgres:***@localhost:5432

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```

* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell

```

```

8 rows affected.

```

```

[]

```

```

%%sql

```

```

INSERT INTO arenes (name, city) VALUES

```

```
('Arène du Soleil', 'Lyon'),
('Colisée du Fleuve', 'Nantes'),
('Stade des Brumes', 'Rouen'),
('Palais des Luites', 'Paris'),
('Arène du Verdier', 'Toulouse'),
('Colisée de la Plage', 'Biarritz')
;
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
6 rows affected.
```

```
[]
```

```
%%sql
```

```
SELECT * FROM fighters;
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
8 rows affected.
```

identifiant	nom	course	niveau_de_puissance	combats	statut
1	Goku	Saiyan	3000000	Aucun	Vrai
2	Végéta	Saiyan	2500000	Aucun	Vrai
3	Piccolo	Namekian	1200000	Aucun	Vrai
4	Krillin	Humain	300 000	Aucun	Vrai
5	Freezer	Étranger	5000000	Aucun	Vrai
6	Zarbon	Étranger	1500000	Aucun	Vrai
7	Dodoria	Étranger	1200000	Aucun	Vrai
8	Capitaine Ginyu	Étranger	2000000	Aucun	Vrai

```
%%sql
```

```
SELECT name
FROM arenes
WHERE city = 'Biarritz'
ORDER BY name;
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
1 rows affected.
```

```
nom
```

```
Colisée de la Plage
```

```
%%sql
```

```
UPDATE fighters
```

```
SET power_level = power_level * 1.10;
```

```
SELECT *  
FROM fighters
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
7 rows affected.
```

```
7 rows affected.
```

identifiant	nom	course	niveau_de_puissance	combats	statut
1	Goku	Saiyan	3630000	Aucun	Vrai
2	Végéta	Saiyan	3025000	Aucun	Vrai
4	Krillin	Humain	363000	Aucun	Vrai
5	Freezer	Étranger	6050000	Aucun	Vrai
6	Zarbon	Étranger	1815000	Aucun	Vrai
7	Dodoria	Étranger	1452000	Aucun	Vrai
8	Capitaine Ginyu	Étranger	2420000	Aucun	Vrai

```
%%sql
```

```
DELETE FROM fighters  
WHERE name = 'Piccolo';
```

```
SELECT *  
FROM fighters
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
0 rows affected.
```

```
7 rows affected.
```

identifiant	nom	course	niveau_de_puissance	combats	statut
1	Goku	Saiyan	3000000	Aucun	Vrai
2	Végéta	Saiyan	2500000	Aucun	Vrai
4	Krillin	Humain	300 000	Aucun	Vrai
5	Freezer	Étranger	5000000	Aucun	Vrai
6	Zarbon	Étranger	1500000	Aucun	Vrai
7	Dodoria	Étranger	1200000	Aucun	Vrai
8	Capitaine Ginyu	Étranger	2000000	Aucun	Vrai

```
%%sql
```

```
INSERT INTO matchs(fighter1_id, fighter2_id, winner, arene_id)
```

```
VALUES
```

```
(1, 2, 1, 6)
```

```
postgresql+psycpg2://postgres:***@localhost:5432
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```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
1 rows affected.
```

```
[]
```

```
%%sql
```

```
UPDATE fighters
```

```
SET fights = 1
```

```
WHERE id IN (1, 2);
```

```
UPDATE fighters
```

```
SET status = false
```

```
WHERE id = 2;
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
2 rows affected.
```

```
1 rows affected.
```

```
[]
```

```
%%sql
```

```
SELECT f.name, m.arena_id
```

```
FROM fighters f
```

```
INNER JOIN matchs m ON f.id = m.winner
```

```
postgresql+psycpg2://postgres:***@localhost:5432
```

```
* postgresql+psycpg2://postgres:***@localhost:5432/dbz_cell
```

```
1 rows affected.
```

nom	arena_id
Goku	6