

# SQL Queries

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This file save all big query for re-create GoGoCar database.

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## Create

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### Create extension

For passwords encryption.

```
CREATE EXTENSION pgcrypto;
```

```
CREATE EXTENSION IF NOT EXISTS pgcrypto;
```

```
CREATE EXTENSION IF NOT EXISTS pgcrypto WITH SCHEMA public;
```

For location

```
CREATE EXTENSION postgis;
```

```
CREATE EXTENSION postgis_topology;
```

```
CREATE EXTENSION IF NOT EXISTS postgis;
```

## Create database

```
CREATE DATABASE gogocar WITH ENCODING = 'UTF-8';
```

## Create tables

User

```
CREATE TABLE users (  
  id INTEGER PRIMARY KEY GENERATED ALWAYS AS IDENTITY,  
  name VARCHAR(40) NOT NULL,  
  email VARCHAR(40) UNIQUE NOT NULL,  
  phone VARCHAR(14) UNIQUE NOT NULL,  
  password VARCHAR(400) UNIQUE NOT NULL,  
  salt VARCHAR(40) NOT NULL,  
  id_identity INTEGER UNIQUE  
  
);
```

Vehicle

```
CREATE TABLE vehicles (  
  id INTEGER PRIMARY KEY GENERATED ALWAYS AS IDENTITY,  
  model VARCHAR(40) NOT NULL,
```

```
licence_plate VARCHAR(10) UNIQUE NOT NULL,  
address VARCHAR(100) NOT NULL,  
id_owner INTEGER NOT NULL,  
is_available BOOLEAN NOT NULL DEFAULT TRUE,  
is_booked BOOLEAN NOT NULL DEFAULT FALSE,  
id_user_book INTEGER,  
id_module INTEGER UNIQUE NOT NULL  
);
```

On utilise cette table

```
CREATE TABLE vehicles (  
  id INTEGER PRIMARY KEY GENERATED ALWAYS AS IDENTITY,  
  model VARCHAR(40) NOT NULL,  
  licence_plate VARCHAR(10) UNIQUE NOT NULL,  
  id_address INTEGER UNIQUE NOT NULL ,  
  id_owner INTEGER NOT NULL,  
  is_available BOOLEAN NOT NULL DEFAULT TRUE,  
  is_booked BOOLEAN NOT NULL DEFAULT FALSE,  
  id_user_book INTEGER,  
  id_module INTEGER UNIQUE NOT NULL  
);
```

Modules gogocar

```
CREATE TABLE modules (  
  id INTEGER PRIMARY KEY GENERATED ALWAYS AS IDENTITY,  
  name VARCHAR(11) UNIQUE NOT NULL,  
  mac_address VARCHAR(129) UNIQUE NOT NULL  
);
```

Marques et Modeles voitures

```
CREATE TABLE `carmodel` (  
  `id` int(11) NOT NULL,  
  `brandname` varchar(255) NOT NULL,  
  `carmodel` varchar(255) NOT NULL  
);
```

Addresses

On utilisera cette table

```
CREATE TABLE addresses (  
  id SERIAL PRIMARY KEY,  
  street_address TEXT,  
  city TEXT,  
  state TEXT,  
  zip_code TEXT,  
  location GEOMETRY(Point,4326)  
);
```

**REMARQUE:** 4326 dans PostGIS, cela indique que les coordonnées géographiques stockées dans la table sont des coordonnées WGS84

```
CREATE TABLE addresses (  
  id SERIAL PRIMARY KEY,  
  street_address TEXT,  
  city TEXT,  
  state TEXT,  
  zip_code TEXT,  
  latitude DOUBLE PRECISION,  
  longitude DOUBLE PRECISION  
);
```

## City

On utilisera cette table

```
CREATE TABLE city(  
  id SERIAL PRIMARY KEY,  
  city TEXT,  
  location GEOMETRY(Point,4326)  
);
```

```
CREATE TABLE city(  
  id SERIAL PRIMARY KEY,  
  city TEXT,  
  location GEOMETRY(Point,4326) USING ST_GeomFromText('POINT(0 0)', 4326)  
);
```

```
ALTER TABLE city  
  ALTER COLUMN location SET NOT NULL,  
  SET DEFAULT ST_SetSRID(ST_MakePoint(0, 0), 4326);
```

# Update

---

```
UPDATE users SET password = pgp_sym_encrypt(password, 'my_secret_key');
```

# Select

---

## Postgis extension for location geometry

```
SELECT postgis_full_version();
```

## Password with encryption

```
SELECT pgp_sym_decrypt(password, 'my_secret_key') FROM users;
```

```
SELECT proname FROM pg_proc WHERE proname = 'decrypt';
```

```
SELECT * FROM pg_extension WHERE extname = 'pgcrypto';
```

```
SELECT pgp_sym_decrypt(decode('base64_encoded_text', 'base64'),  
'my_secret_key');
```

```
SELECT password FROM users WHERE name = 'Admin Admin';
```

```
SELECT decrypt(password, 'bf') FROM users WHERE name = 'Admin Admin';
```

```
SELECT id, name, convert_from(decrypt(password, 'bf'), 'SQL_ASCII') FROM  
users;
```

## Address

---

```
SELECT location GEOMETRY(Point,4326) FROM addresses WHERE ST_Distance('123
Main St', 'Anytown', 'CA', '12345', ST_SetSRID(ST_MakePoint(-122.419416,
37.774929), 4326)) < 1000;
```

## Distance

On ne peut pas utiliser car GEOMETRY

```
SELECT *
FROM city
WHERE ST_Distance(location GEOMETRY(Point,4326),
ST_SetSRID(ST_MakePoint(<43.1242>, <5.9280>), 4326)) <= 10000;
```

```
SELECT *
FROM city
WHERE ST_Distance(location, ST_SetSRID(ST_MakePoint(<43.1242>, <5.9280>),
4326)) <= 10000;
```

Pour extraire les coordonnées

```
SELECT ST_X(a.location) AS address_longitude, ST_Y(a.location) AS
address_latitude,
       ST_X(c.location) AS city_longitude, ST_Y(c.location) AS
city_latitude
FROM addresses AS a
JOIN city AS c ON a.city = c.city;
```

Pour un point autour de 10km

```
SELECT a.*
FROM city c
JOIN addresses a ON c.city = a.city
WHERE ST_DWithin(c.location, a.location, 10000);
```

```
SELECT *
FROM addresses
WHERE ST_DWithin(
  ST_MakePoint(address_longitude, address_latitude)::geography,
  ST_MakePoint(city_longitude, city_latitude)::geography,
  10000
);
```

```
SELECT ST_Distance(c1.location, a.location) as distance
FROM city c1
JOIN addresses a ON c1.city = a.city
JOIN city c2 ON c2.city = 'Toulon'
WHERE a.street_address = '265 Bd Maréchal Leclerc' AND c2.city = 'Toulon';
```

On utilisera cette requete

```
SELECT *
FROM addresses
WHERE ST_DWithin(
    location::geography,
    (SELECT location FROM city WHERE city = 'Marseille')::geography,
    10000
);
```

## Id address

```
SELECT id_address, street_address, city, state, zip_code, location
FROM addresses
WHERE id_address IN (1, 4, 13, 9, 15);
```

```
SELECT v.*, a.street_address, a.city, a.state, a.zip_code, a.location
FROM vehicles v
JOIN addresses a ON v.id_address = a.id
WHERE v.id = <ID_DU_VEHICULE>;
```

## Insert

---

### User

password: 'admin'

hash: `hash = hashPassword("admin");`

```
INSERT INTO users(name, email, phone, password, salt) VALUES
('Admin Admin', 'admin@admin.com', '06 05 04 03 02',
crypt('8c6976e5b5410415bde908bd4dee15dfb167a9c873fc4bb8a81f6f2ab448a918',
gen_salt('bf')), '');
```

## Adresses

Dans la base de donnée, On stocke le texte avec des simples "" avec le \$ pour eviter les conflits

```
INSERT INTO addresses (street_address, city, state, zip_code, location
GEOMETRY(Point,4326)) VALUES
('161 Av.Colobel Fabien', 'Toulon', 'Var', '83000',
ST_SetSRID(ST_MakePoint(43.12255, 5.94120), 4326)),
('265 Bd Maréchal Leclerc', 'Toulon', 'Var', '83000',
ST_SetSRID(ST_MakePoint(43.12601, 5.92918), 4326)),
('300 Av. de l$Université', 'La Valette-du-Var', 'Var', '83160',
ST_SetSRID(ST_MakePoint(43.1363, 6.00714), 4326)),
('Rue Antoine Bourdelle', 'Marseille', 'Bouches du rhone', '13009',
ST_SetSRID(ST_MakePoint(43.23252012446604, 5.433485893994135), 4326)),
('36 Av. du Maréchal Foch', 'Marseille', 'Bouches du rhone', '13004',
ST_SetSRID(ST_MakePoint(43.300447541385076, 5.3998418670150325), 4326)),
('2300 Av. des Moulins', 'Montpellier', 'Herault', '34080',
ST_SetSRID(ST_MakePoint(43.621968004876884, 3.8321528553962967), 4326)),
('Bd des Arènes', 'Nîmes', 'Gard', '30000',
ST_SetSRID(ST_MakePoint(43.835097448831654, 4.359582409376505), 4326)),
('51 Av. Georges Pompidou', 'Nîmes', 'Gard', '30000',
ST_SetSRID(ST_MakePoint(43.836153250496544, 4.346651124721022), 4326)),
('Avenue des Champs Elysees', 'Paris', 'Ile de France', '75008',
ST_SetSRID(ST_MakePoint(48.87309424819047, 2.2978633250556575), 4326)),
('12 Av. Joseph Clotis', 'Hyères', 'Var', '83400',
ST_SetSRID(ST_MakePoint(43.11994763359465, 6.130012124675955), 4326)),
('1 Av. Ambroise Thomas', 'Hyères', 'Var', '83400',
ST_SetSRID(ST_MakePoint(43.11900226715078, 6.1321932400203), 4326)),
('Av. Thiers', 'Nice', 'Alpes maritimes', '06008',
ST_SetSRID(ST_MakePoint(43.70482074203715, 7.261904647426397), 4326)),
('Av. René Couzinet', 'Nice', 'Alpes maritimes', '06200',
ST_SetSRID(ST_MakePoint(43.66026966774082, 7.201844224709845), 4326)),
('135 Bd Napoléon III', 'Nice', 'Alpes maritimes', '06200',
ST_SetSRID(ST_MakePoint(43.68059404906902, 7.220692367038952), 4326));
```

On utilisera cette requete

```
INSERT INTO addresses (street_address, city, state, zip_code, location)
VALUES
('161 Av.Colobel Fabien', 'Toulon', 'Var', '83000',
ST_SetSRID(ST_MakePoint(43.12255, 5.94120), 4326)),
('265 Bd Maréchal Leclerc', 'Toulon', 'Var', '83000',
ST_SetSRID(ST_MakePoint(43.12601, 5.92918), 4326)),
('300 Av. de l$Université', 'La Valette-du-Var', 'Var', '83160',
ST_SetSRID(ST_MakePoint(43.1363, 6.00714), 4326)),
('Rue Antoine Bourdelle', 'Marseille', 'Bouches du Rhône', '13009',
ST_SetSRID(ST_MakePoint(43.23252012446604, 5.433485893994135), 4326)),
('36 Av. du Maréchal Foch', 'Marseille', 'Bouches du Rhône', '13004',
ST_SetSRID(ST_MakePoint(43.300447541385076, 5.3998418670150325), 4326)),
('2300 Av. des Moulins', 'Montpellier', 'Hérault', '34080',
```



```

ST_SetSRID(ST_MakePoint(43.621968004876884, 3.8321528553962967), 4326)),
('Bd des Arènes', 'Nîmes', 'Gard', '30000',
ST_SetSRID(ST_MakePoint(43.835097448831654, 4.359582409376505), 4326)),
('51 Av. Georges Pompidou', 'Nîmes', 'Gard', '30000',
ST_SetSRID(ST_MakePoint(43.836153250496544, 4.346651124721022), 4326)),
('Avenue des Champs Elysées', 'Paris', 'Ile de France', '75008',
ST_SetSRID(ST_MakePoint(48.87309424819047, 2.2978633250556575), 4326)),
('12 Av. Joseph Clotis', 'Hyères', 'Var', '83400',
ST_SetSRID(ST_MakePoint(43.11994763359465, 6.130012124675955), 4326)),
('1 Av. Ambroise Thomas', 'Hyères', 'Var', '83400',
ST_SetSRID(ST_MakePoint(43.11900226715078, 6.1321932400203), 4326)),
('Av. Thiers', 'Nice', 'Alpes Maritimes', '06008',
ST_SetSRID(ST_MakePoint(43.70482074203715, 7.261904647426397), 4326)),
('Av. René Couzinet', 'Nice', 'Alpes Maritimes', '06200',
ST_SetSRID(ST_MakePoint(43.66026966774082, 7.201844224709845), 4326)),
('135 Bd Napoléon III', 'Nice', 'Alpes Maritimes', '06200',
ST_SetSRID(ST_MakePoint(43.680594049069, 7.220692367038952), 4326)),
('Pl. de la Bourse', 'Bordeaux ', 'Gironde', '33000',
ST_SetSRID(ST_MakePoint(44.847625319339706, -0.570222932383494), 4326)),
('1 All. Gabriel Biénès', 'Toulouse', 'Haute-
Garonne', '31000', ST_SetSRID(ST_MakePoint(43.58699790631396,
1.4331819687088538), 4326)),
('Pl. André Maurois', 'Strasbourg', 'Bas-
Rhin', '67200', ST_SetSRID(ST_MakePoint(48.59476977827798,
7.695929483804118), 4326)),
('36 Bd des Canuts', 'Lyon', 'Rhone', '69004',
ST_SetSRID(ST_MakePoint(45.78234814027368, 4.829633261850004), 4326)),
('Av. Mathias Delobel', 'Lille',
'Nord', '59000', ST_SetSRID(ST_MakePoint(50.64215669067997,
3.047237760668041), 4326)),
('Bd Léon Bureau', 'Nantes', 'Loire-
Atlantique', '44200', ST_SetSRID(ST_MakePoint(47.211156760921284,
-1.5634279868211647), 4326)),
('place
Blot', 'Caen', 'Calvados', '14000', ST_SetSRID(ST_MakePoint(49.18990693317228,
-0.3703552922594886), 4326)),
('Bd Albert Camus', 'Angers', 'Maine et
Loire', '49100', ST_SetSRID(ST_MakePoint(47.48697080425762,
-0.5728946763388832), 4326)),
('Bd Tanguy
Prigent', 'Brest', 'Finistere', '29200', ST_SetSRID(ST_MakePoint(48.40727325844
152, -4.528771140969449), 4326)),
('All. du
Zoo', 'Amiens', 'Somme', '80000', ST_SetSRID(ST_MakePoint(49.90376735370334,
2.274721479783732), 4326)),
('54 Rue des Batignolles', 'Le Mans ', 'Sarthe', '72100',
ST_SetSRID(ST_MakePoint(47.99658073460969, 0.18574115544987005), 4326)),
('60 Rte des Creuses', 'Annecy', 'Haute
Savoie', '74960', ST_SetSRID(ST_MakePoint(45.898452515655016,
6.092793818353532), 4326)),
('1 Rue Louis Majorelle', 'Nancy', 'Meurthe-et-Moselle', '54000
', ST_SetSRID(ST_MakePoint(48.68839002604194, 6.164168310550205), 4326)),
('93 Rte de Gençay', 'Poitiers', 'Poitou Charente', '86000 ',
ST_SetSRID(ST_MakePoint(46.57468965595032, 0.3563472761161022), 4326));

```

```

INSERT INTO addresses (street_address, city, state, zip_code, latitude,
longitude)
VALUES
  ('161 Av.Colobel Fabien', 'Toulon', 'Var', '83000', 43.12255, 5.94120),
  ('265 Bd Maréchal Leclerc', 'Toulon', 'Var', '83000', 43.12601, 5.92918),
  ('300 Av. de l'Université', 'La Valette-du-Var', 'Var', '83160',
43.1363, 6.00714),
  ('Rue Antoine Bourdelle', 'Marseille', 'Bouches du Rhône', '13009',
43.23252012446604, 5.433485893994135),
  ('36 Av. du Maréchal Foch', 'Marseille', 'Bouches du Rhône', '13004',
43.300447541385076, 5.3998418670150325),
  ('2300 Av. des Moulins', 'Montpellier', 'Hérault', '34080',
43.621968004876884, 3.8321528553962967),
  ('Bd des Arènes', 'Nîmes', 'Gard', '30000', 43.835097448831654,
4.359582409376505),
  ('51 Av. Georges Pompidou', 'Nîmes', 'Gard', '30000', 43.836153250496544,
4.346651124721022),
  ('Avenue des Champs Elysées', 'Paris', 'Ile de France', '75008',
48.87309424819047, 2.2978633250556575),
  ('12 Av. Joseph Clotis', 'Hyères', 'Var', '83400', 43.11994763359465,
6.130012124675955),
  ('1 Av. Ambroise Thomas', 'Hyères', 'Var', '83400', 43.11900226715078,
6.1321932400203),
  ('Av. Thiers', 'Nice', 'Alpes Maritimes', '06008', 43.70482074203715,
7.261904647426397),
  ('Av. René Couzinet', 'Nice', 'Alpes Maritimes', '06200',
43.66026966774082, 7.201844224709845),
  ('135 Bd Napoléon III', 'Nice', 'Alpes Maritimes', '06200',
43.68059404906902, 7.201844224709845);

```

## City

```

INSERT INTO city (city, location GEOMETRY(Point,4326)) VALUES
('Toulon', ST_SetSRID(ST_MakePoint(43.116669, 5.93333), 4326)),
('Hyeres', ST_SetSRID(ST_MakePoint(43.116669, 6.11667), 4326)),
('Nimes',ST_SetSRID(ST_MakePoint(43.833328, 4.35), 4326)),
('Paris',ST_SetSRID(ST_MakePoint(48.8534, 2.3488), 4326)),
('Nice',ST_SetSRID(ST_MakePoint(43.700001, 7.25), 4326)),
('Marseille',ST_SetSRID(ST_MakePoint(43.300000, 5.400000), 4326)),
('La Valette-du-Var',ST_SetSRID(ST_MakePoint(43.133331,5.98333), 4326));

```

On utilisera cette requete

```

INSERT INTO city (city_name, location)
VALUES
  ('Toulon', ST_SetSRID(ST_MakePoint(43.116669, 5.93333), 4326)),

```

```
( 'Hyeres', ST_SetSRID(ST_MakePoint(43.116669, 6.11667), 4326)),
( 'Nimes', ST_SetSRID(ST_MakePoint(43.833328, 4.35), 4326)),
( 'Paris', ST_SetSRID(ST_MakePoint(48.8534, 2.3488), 4326)),
( 'Nice', ST_SetSRID(ST_MakePoint(43.700001, 7.25), 4326)),
( 'Marseille', ST_SetSRID(ST_MakePoint(43.300000, 5.400000), 4326)),
( 'La Valette-du-Var', ST_SetSRID(ST_MakePoint(43.133331, 5.98333),
4326)),
( 'Bordeaux', ST_SetSRID(ST_MakePoint(44.8378, 0.5792), 4326)),
( 'Toulouse', ST_SetSRID(ST_MakePoint(43.6047, 1.4442), 4326)),
( 'Strasbourg', ST_SetSRID(ST_MakePoint( 48.5734, 7.7521),4326)),
( 'Lyon',ST_SetSRID(ST_MakePoint(45.75, 4.85),4326)),
( 'Lille', ST_SetSRID(ST_MakePoint(50.62925, 3.057256),4326)),
( 'Nantes', ST_SetSRID(ST_MakePoint(47.218371, -1.553621), 4326)),
( 'Caen', ST_SetSRID(ST_MakePoint(49.182863,-0.370679), 4326)),
( 'Angers', ST_SetSRID(ST_MakePoint(47.4712, 0.5518), 4326)),
( 'Brest', ST_SetSRID(ST_MakePoint( 43.2751, 6.0741), 4326)),
( 'Amiens',ST_SetSRID(ST_MakePoint( 49.894067, 2.295753), 4326)),
( 'Le Mans', ST_SetSRID(ST_MakePoint( 48.00611, 0.1999556),4326)),
( 'Annecy', ST_SetSRID(ST_MakePoint( 45.8992, 6.1294), 4326)),
( 'Nancy', ST_SetSRID(ST_MakePoint(48.692054, 6.184417), 4326)),
( 'Montpellier',ST_SetSRID(ST_MakePoint(43.62505, 3.862038), 4326)),
( 'Poitiers',ST_SetSRID(ST_MakePoint(46.583328, 0.33333), 4326));
```

## Vehicles

```
INSERT INTO vehicles (model, licence_plate, address, id_owner, id_module)
VALUES
( 'Peugeot 105', 'YZ-875-AZ', '14 rue des romarins', 1, 3),
( 'Renault Mégane', 'PA-510-ND', '2 avenue Champ de Mars', 2, 4);
```

```
INSERT INTO vehicles (model, licence_plate, address, id_owner, id_module)
VALUES
( 'Nissan GT', 'BD-325-FE', '26 rue General de Gaulle', 3, 5),
( 'Peugeot 206', 'AM-871-DD', '18 Boulevard Jules Ferry', 3, 6);
```

```
INSERT INTO vehicles (model, licence_plate, address, id_owner, id_module)
VALUES
( 'Mini Cooper', 'ST-425-ZE', '10 Avenue Francois Cuzin', 3, 7),
( 'Fiat 500', 'PN-671-DT', '18 Boulevard Jules Ferry', 4, 8);
```

```
INSERT INTO vehicles (model, licence_plate, address, id_owner, id_module)
VALUES
( 'Citroën c3', 'QS-523-EE', '5 Boulevard des Arènes' , 6, 7),
( 'Chevrolet Camaro', 'DE-431-AD', '12 rue Picot' , 2, 8),
```

```
( 'Fiat 500', 'WS-856-CE', '268 rue du Dr Paradis' , 5, 9),
( 'Mini Cooper', 'DL-727-HS', ' 6 Avenue du 11 novembre' , 2, 10),
( 'Peugeot 208', 'CQ-154-IU', '270 rue jean monnet' , 5, 11),
( 'Renault Mégane', 'MF-476-NX', '34 Avenue Francois Cuzin', 6, 12);
```

Insert vehicules on utilisera cette requete

```
INSERT INTO vehicles (model, "licence_plate", id_address, id_owner,
id_module)
VALUES
( 'Alfa Romeo 164', 'QS-523-EE', 1, 1, 1),
( 'Audi A1', 'DE-431-AD', 2, 1, 2),
( 'Citroen C3', 'WS-856-CE', 3, 4, 3),
( 'Citroen C4', 'DL-727-HS', 4, 6, 4),
( 'Dacia Sandero', 'CQ-154-IU', 9, 5, 5),
( 'Fiat 500', 'MF-476-NX', 6, 6, 6),
( 'Ford Focus', 'MP-496-NX', 7, 9, 7),
( 'Honda Civic', 'LQ-374-IU', 8, 10, 8),
( 'Hyundai Tucson', 'ML-727-KS', 9, 11, 9),
( 'Kia Rio', 'AS-513-EE', 10, 10, 10),
( 'Mazda Tribute', 'XE-431-QD', 11, 11, 11),
( 'Mini', 'PS-156-ME', 12, 12, 12),
( 'Mini Countryman', 'CL-720-RS', 13, 13, 13),
( 'Nissan Navara', 'CQ-152-IP', 14, 14, 14),
( 'Opel Corsa', 'MF-474-NZ', 15, 15, 15),
( 'Peugeot 208', 'MS-491-NN', 16, 16, 16),
( 'Peugeot 308', 'SQ-174-ME', 17, 17, 17),
( 'Renault Captur', 'AX-515-GE', 18, 18, 18),
( 'Renault Clio', 'JE-735-GP', 19, 19, 19),
( 'Seat Ibiza', 'ZP-480-FJ', 20, 20, 20),
( 'Skoda Fabia', 'PE-483-R0', 21, 21, 21),
( 'Suzuki Swift', 'OZ-284-FE', 22, 22, 22),
( 'Toyota Auris', 'FR-894-GJ', 23, 23, 23),
( 'Volkswagen Golf', 'ME-898-JR', 24, 24, 24),
( 'Volvo C30', 'FJ-049-FE', 25, 25, 25),
( 'Volvo Cross Country', 'EI-424-RF', 26, 26, 26),
( 'Renault Modus', 'ZP-940-JZ', 27, 27, 27),
( 'Renault Megane', 'EJ-203-ZL', 28, 28, 28);
```

Insert **Nissan Capri** for tests (4 and 2 important)

```
INSERT INTO vehicles (model, licence_plate, address, id_owner, id_module)
VALUES
( 'Nissan Capri', 'SS-523-DE', '18 Boulevard des Arènes' , 4, 2);
```

Modules gogocar

```
INSERT INTO modules (name, mac_address) VALUES
  ('#01-01-0001',
  'e0c6a87b46d582b0d5b5ca19cc5b0ba3d9e3ed79d113ebff9248b2f8ce5affdc52a044bd4d
  c8c1d70ffdf08256d7b68beff3a4ae6ae2582ad201cf8f4c6d47a9'),
  ('#01-01-0002',
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## Vehicles Models

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