# Sqler

BY ABODX

*Simple Python Script to help you generating a fake Data for your new DataBase, as well as some useful opertions that will somehow help you*

**2022**

# Contents

# Getting Started

### Install Python interpreter

Well since the script was made in Python you need , first to download it and Install it, it does not matter mac or windows  and the version should be Python 3.6.6 or >

You can download it from here:

https://www.python.org/downloads/release/python-366/

### First Library

The First lib. Is used to generate the fake data so all u need is type in the command prompt

`pip install Faker`

### Second Library

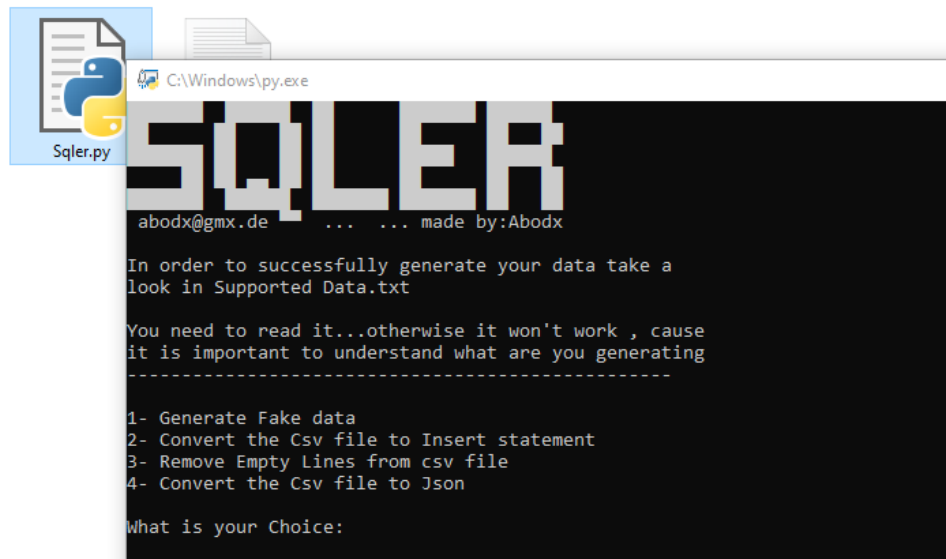The second is to parse json and interact with it, you can install it as below
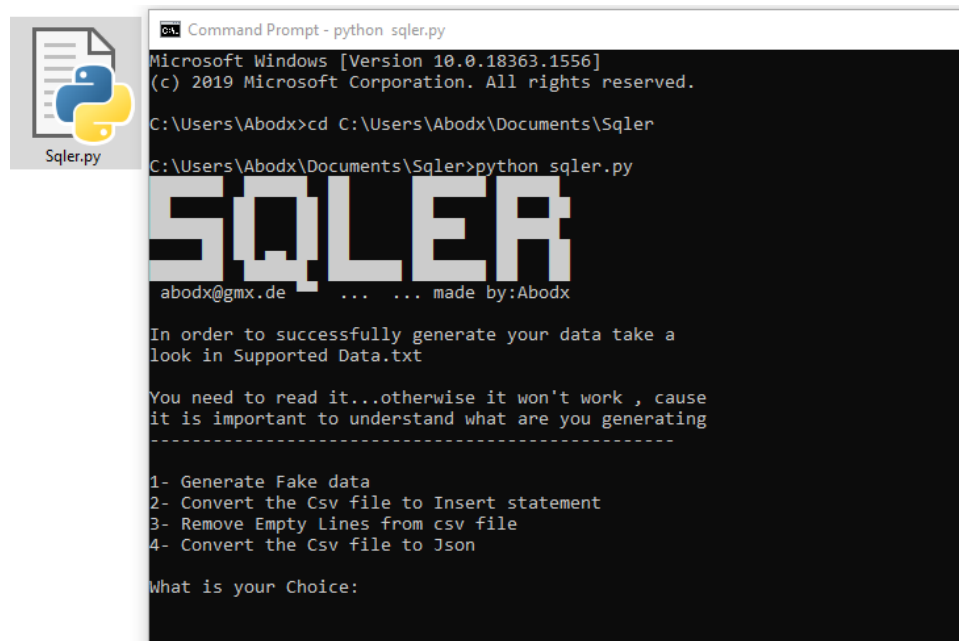
`pip install ujson`

### Third one

And you need to read the supported Data , so the script did not crush or something.
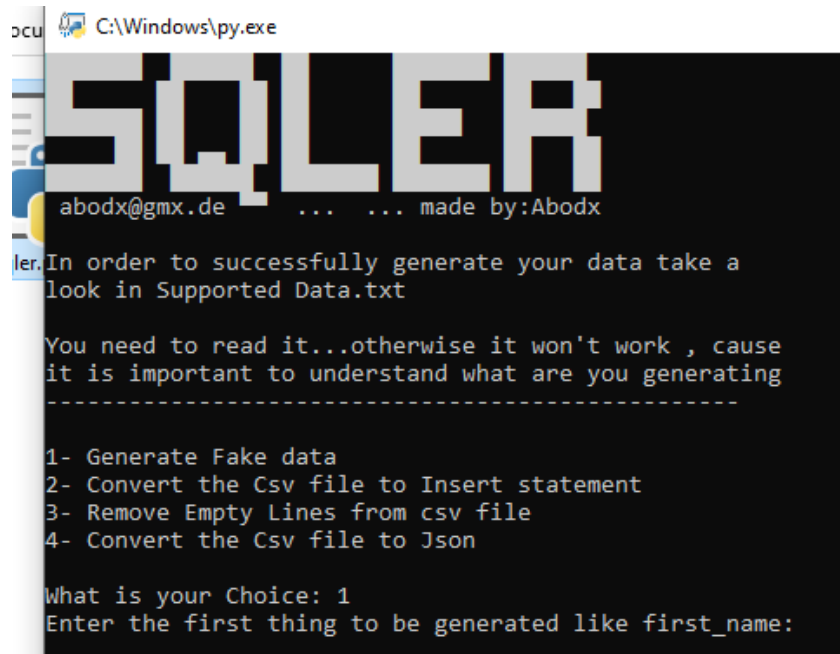
# Generating Fake Data

In windows you can either click on the script and open it with Python Interpreter like this:



Or simply using the command prompt like below:

So now we are in the main menu; we press 1 and then Enter as you can see it will ask you, what is the first thing that you want to generate, you can generate up to 5 fake data.



In my case I want numbers to work as keys in my database so I am going to type

random_int and this will generate fake numbers , then enter;

Then it will ask you what is the next , you can choose first_name or anything else, and after typing all the five fake data will ask you give the generated file a name;

```
1- Generate Fake data
2- Convert the Csv file to Insert statement
3- Remove Empty Lines from csv file
4- Convert the Csv file to Json

What is your Choice: 1
Enter the first thing to be generated like first_name: random_int
Enter the second thing to be generated: job
Enter the third thing to be generated: city
Enter the fourth thing to be generated: time
Enter the fifth thing to be generated: date
What do u want to call the csv file:
```

You can rename it anything then enter; you will notice now it is asking what is the name of the first attribute , I did generate at first a numbers so , I want these numbers to be in attribute called Ids:

```
What is your Choice: 1
Enter the first thing to be generated like first_name: random_int
Enter the second thing to be generated: job
Enter the third thing to be generated: city
Enter the fourth thing to be generated: time
Enter the fifth thing to be generated: date
What do u want to call the csv file: fake_data
Enter the first attribute's name: Ids
```

And we will do these for the remaining four, First Name , Jobs or the time of anything.

```
Enter the first attribute's name: Ids
Enter the second attribute's name: WorkAs
Enter the third attribute's name: whereIsThework
Enter the fourth attribute's name: thePause
Enter the fifth attribute's name: DOB
How many rows do u need: 30
```

After typing everything it will ask how many entries do you want to generate I did choose 30 and of course can be change to 100 or even 1000. Then enter

Now the file is in the same folder as the script file and it is done Now

```
                Enter the fifth thing to be generated: date
                What do u want to call the csv file: fake_data
                Enter the first attribute's name: Ids
                Enter the second attribute's name: WorkAs
                Enter the third attribute's name: whereIsThework
                Enter the fourth attribute's name: thePause
                Enter the fifth attribute's name: DOB
fake_data.csv   How many rows do u need: 30
                Done


                Press Enter to Exit...
```
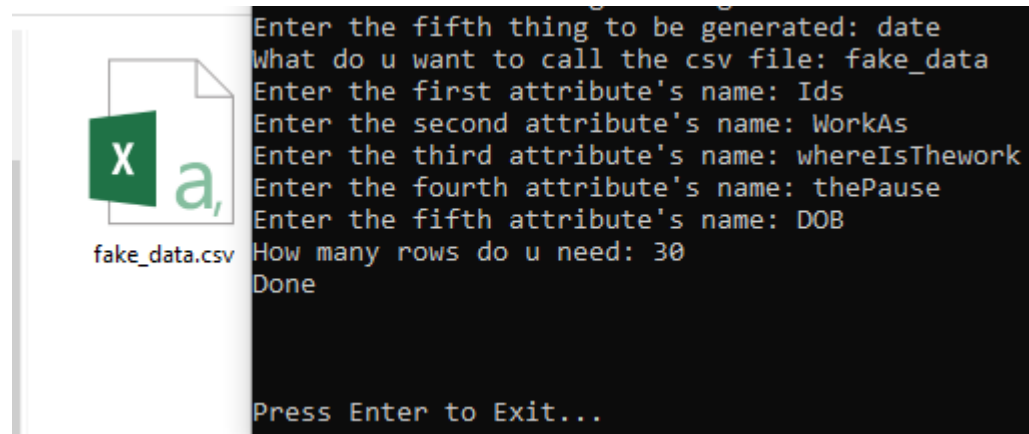
This csv file can be simply imported to your Database, PostgresSql or MySql … I think all the DBMs are supporting to import data. And here is the data inside

```
1   Ids,WorkAs,whereIsThework,thePause,DOB
2
3   5706,"Therapist, nutritional",North Dianeton,08:09:42,1986-01-18
4
5   2728,Private music teacher,Kevinville,09:47:55,1973-03-30
6
7   2140,Hydrologist,New Debraside,00:29:39,1998-06-02
8
9   2829,Ceramics designer,Heatherberg,20:12:00,2014-03-17
10
11  7025,Mining engineer,Brownmouth,22:14:24,2007-04-01
12
13  4143,Public house manager,New Jamesport,20:43:43,2007-01-13
14
15  8710,Private music teacher,East Melissa,01:15:18,2015-07-22
16
17  5209,Medical sales representative,Jamiechester,06:09:20,2006-06-18
18
19  3113,Telecommunications researcher,Josephport,04:21:14,2013-04-22
```

# Converting Csv to insert

## Start:

- In the main menu we press 2
- Will ask the what is the table name . In my Case I will call it Worker
- It will then ask you to drag and drop the csv file

```
1- Generate Fake data
2- Convert the Csv file to Insert statement
3- Remove Empty Lines from csv file
4- Convert the Csv file to Json

What is your Choice: 2
What is the name of ur table: Worker
Drag and Drop csv file here: C:\Users\Abodx\Documents\Sqler\fake_data.csv
```

Then enter, the insert statement will then show up in console , just like that:

```
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('4394', 'Immigration officer', 'West Rachel', '10:57:19', '2021-05-20');
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('2890', 'Gaffer', 'Elaineview', '19:02:09', '1978-03-15');
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('6674', 'Ambulance person', 'West Tanya', '17:01:21', '1995-07-22');
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('6111', 'Chief Strategy Officer', 'East Victor', '13:11:46', '1992-06-01')
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('3691', 'Theatre stage manager', 'Shawnhaven', '06:10:33', '1985-09-05');
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('7624', 'Biochemist, clinical', 'East Dominic', '07:46:53', '2013-11-01');
INSERT INTO Worker VALUES ();
INSERT INTO Worker VALUES ('8577', 'Surgeon', 'Williamston', '11:51:44', '2016-01-23');
INSERT INTO Worker VALUES ();
```
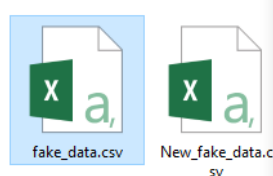
We notice that it insert some empty values and that could be a problem , we can Fix that with option 3.

# Remove the empty Lines

## Start

As we said before blank lines could be a problem , so in order to remove them from our csv file will go with option 3,

It will ask to drag and drop the csv file , then enter the new csv file name

```
3- Remove Empty Lines from csv file
4- Convert the Csv file to Json

What is your Choice: 3
Drag and Drop the csv file here: C:\Users\Abodx\Documents\Sqler\fake_data.csv
Enter new name for csv file: New_fake_data
Done

Press Enter to Exit...
```
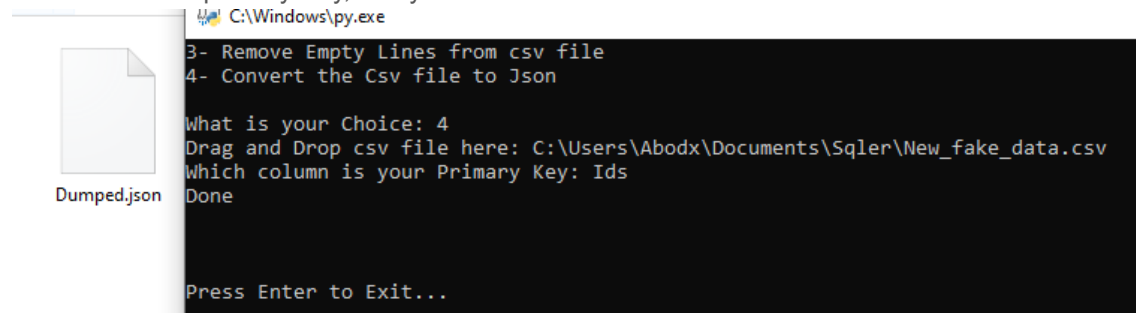
fake_data.csv    New_fake_data.c
                 sv

In the same folder it generates new csv file,  but these new file doesnot contain these empty lines

```
 1  Ids,WorkAs,whereIsThework,thePause,DOB
 2  5706,"Therapist, nutritional",North Dianeton,08:09:42,1986-01-18
 3  2728,Private music teacher,Kevinville,09:47:55,1973-03-30
 4  2140,Hydrologist,New Debraside,00:29:39,1998-06-02
 5  2829,Ceramics designer,Heatherberg,20:12:00,2014-03-17
 6  7025,Mining engineer,Brownmouth,22:14:24,2007-04-01
 7  4143,Public house manager,New Jamesport,20:43:43,2007-01-13
 8  8710,Private music teacher,East Melissa,01:15:18,2015-07-22
 9  5209,Medical sales representative,Jamiechester,06:09:20,2006-06-18
10  3113,Telecommunications researcher,Josephport,04:21:14,2013-04-22
11  8667,Printmaker,New Bethtown,00:48:14,1991-01-11
12  3330,Magazine journalist,Lake Derekhaven,07:17:50,2007-04-16
13  3267,"Pharmacist, hospital",Brendamouth,14:40:05,1971-06-06
14  3419,Cartographer,Kayleeshire,16:25:14,1999-06-10
15  8329,Airline pilot,Lake Johnburgh,21:36:09,2006-04-30
16  1492,"Lecturer, further education",Smithchester,15:04:16,2003-11-29
17  2352,Corporate investment banker,New Gregory,09:59:51,1981-02-17
18  7015,Hydrographic surveyor,South Kathleenbury,20:23:02,1972-08-06
19  8700,"Physicist, medical",North Susanhaven,23:27:39,2019-03-28
20  7621,Science writer,Susanside,15:42:27,1984-06-23
```

# Convert csv file to json

Sometimes we need to convert our csv file to json will , it doesnot matter why,

So we can just type 4 in the main menu it will ask where is the csv file and as usual we can just do drag and drop after pressing enter , it will ask which of the columns do you want it to primary Key, in my case I chose Ids

```
C:\Windows\py.exe
3- Remove Empty Lines from csv file
4- Convert the Csv file to Json

What is your Choice: 4
Drag and Drop csv file here: C:\Users\Abodx\Documents\Sqler\New_fake_data.csv
Which column is your Primary Key: Ids
Done


Press Enter to Exit...
```

Dumped.json

As we see it generates a file called dump.json, and inside that file is our csv fake data converted to Json

```json
1  {
2      "5706": {
3          "Ids": "5706",
4          "WorkAs": "Therapist, nutritional",
5          "whereIsThework": "North Dianeton",
6          "thePause": "08:09:42",
7          "DOB": "1986-01-18"
8      },
9      "2728": {
10         "Ids": "2728",
11         "WorkAs": "Private music teacher",
12         "whereIsThework": "Kevinville",
13         "thePause": "09:47:55",
14         "DOB": "1973-03-30"
15     },
16     "2140": {
17         "Ids": "2140",
18         "WorkAs": "Hydrologist",
19         "whereIsThework": "New Debraside",
20         "thePause": "00:29:39",
21         "DOB": "1998-06-02"
22     },
```

## Supported Data

In order to generate fake data , or dummy data as they call it, you need to choose from these keywords;

first_name = To generate people first names

last_name  = Same thing but for last names

name_female = To generate only female names

name_male   = Same but for men LOL

name       = Here is to generate both names

random_int = To generate random numbers, would be great choice for Primary keys

date      = To generate date in this formate (1979-02-02)

time      = Same as date but it generates timestamp, could be used for timestamp in postgres

job      = The name say it all, it generates different Jobs

city      = To generate different cities

country    = To generate countries, just like cities

postcode   = To randomly generate postcodes

street_name = To generate street names from a round the world

street_address  = if u chose this one it will generate postcode with the street name

iban      = this will generate bank's ibans

swift      = can be used along side with iban, and this will generate swift codes

color_name  = this will generate color names

company     = To generate companies names

company_suffix = will generate a suffix for ur company like Inc ,PLC and LLc ..etc

currency_name  = will generate currency_names like euro , dollar and Rial ..etc

ascii_email    = To generate different emails

isbn13      = to generate isbn things, better to be used in libraries projects

boolean    = obviously to generate True or False

null_boolea  = same above but with new type: None

phone_number = to generate fake phone numbers

user_agent  = to generate user agents , it will help somehow maybe

# Report an error

**2022**
This tools is a beta , so it could have a lot of errors , if that happened
You are very welcome to report them to me per E-mail:

abodx@gmx.de

So, I hope you all the best, and until next Tool