

## Statement Documentation.

### *The project*

I created a Relational Database project in Python3 with PyQt5 and SQLAlchemy Core with a PostgreSQL database.

The application is open source and is written as an example of database integration with Python.

The Database is partially filled with random values.

With the user instructions I will explain which values should be used for testing.

The software is licensed under conditions from GNU GPL v3, license is included.

The development and testing is done in Windows 10.

App scaling is set at 125% in Windows

### Installation

For installation instructions see install.txt

For additional instructions for Linux see folder Linux "LINUX Install.txt".

For adjustments or additions see "Changelog.txt".

For your convenience 2 databases for installation are included.

One empty database with only all functional data, so it's ready for you to fill in your own data, or import it.

One database is filled with working data, not necessarily assigned for the applied company, so it's ready for testing purposes.

### *Accountability.*

The description of the operations with its constraints is built up with my best knowledge of the rules.

But I am not an expert on certain rules concerning taxes, accountancy and business processes

So remember the system is designed as an example of database integration with Python and is **not** intended for production.

The program is written to give a ready made solution of the development of a practical example of a ERP system.

For this project a type of company was chosen, when setting up this system, wherein the basic tables are present for one type of company.

The system can be expanded with various modules and can be tailored with other tables and program adjustments for a different type of business.

By all means it's possible to get a good impression of standardization tables and some business processes.

The tables from bisystem were setup from scratch. The table artikelen is imported in PostgreSQL from excel sheets as csv files transferred by libreoffice and filled with random values for prices and amounts and id's generated by a python script.

The tables postcodes, straat, and plaats are imported from MS Access database tables by a program called msa2pgs\_5\_5\_0\_280.exe from Bullzip and psqldb\_x86.exe as requirement.

Other tables are filled with the program itself, so the amount of records is limited!

I am aware, that not everything is equally logical and i should have established some solutions on a different basis with my knowlegde nowadays. Call it work in progress.

In my past i have some experience with programming in Clipper (database system)

This is my thirist project in Python en PyQt5 with PostgreSQL.

And i must say i'm really impressed of the possibilities of this combination.

It's really fast, despite python is an interpreter.

I assume this is thanks too, modules in PyQt5, PostgreSQL, Psycopg2 and SQLAlchemy in C++

If you have questions about the program, you can e-mail me at: [dj.jansen@casema.nl](mailto:dj.jansen@casema.nl)

Have fun!

Dirk Jansen