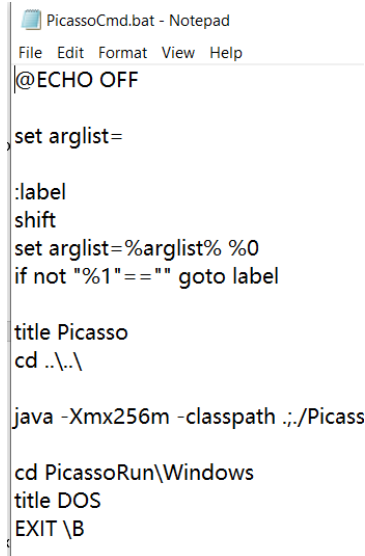*** This programme is tested with postgresql 9.6 and Windows 10***

---Installation

1. Install Postgresql (tested with postgresql 9.6) and initialize TPC-H into the database

2. Install Picasso and make sure it can connect to database.

3. Depending on the operating system, go to PicassoRun/Your_OS/PicassoCmd.bat (eg, PicassoRun/Windows/PicassoCmd.bat), add "EXIT \B" to the document. This is to make sure that this batch file can be run in the Python programme.

```
PicassoCmd.bat - Notepad
File  Edit  Format  View  Help
@ECHO OFF

set arglist=

:label
shift
set arglist=%arglist% %0
if not "%1"=="" goto label

title Picasso
cd ..\..\

java -Xmx256m -classpath .;./Picass

cd PicassoRun\Windows
title DOS
EXIT \B
```
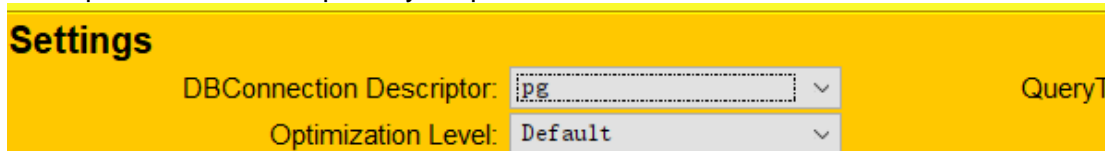
--Run

1. Go to the project folder. Run python app/app.py --host localhost --port 5432 --database <database name in postgresql> --user <postgresql username> --password <username> --dbdescriptor <DBconnection descriptor in Picasso> --path <your path to Picasso folder contains PicassoCmd.bat>.
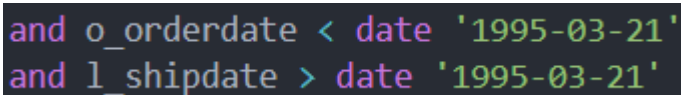
**Settings**

DBConnection Descriptor: `pg`       QueryT

Optimization Level: `Default`

2. Picasso server will automatically start if the path is correctly specified. UI will be initialized.

3. Input SQL query on the top left box. To convert to Picasso template, enter the SQL query line to be replaced, follow by ',' and Picasso template. If more than one line is chosen to be replaced, continue the input separated by ',' as well. For example, if the following two lines are chosen,

```
and o_orderdate < date '1995-03-21'
and l_shipdate > date '1995-03-21'
```

the input in top right box should be:

and o_orderdate < date '1995-03-21',and o_orderdate :varies,and l_shipdate > date '1995-03-21',and l_shipdate :varies

4. Click View Output to display the result.