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PSQL Version Checker

For our project we decided to write a short program that connects the user to a database, checks the version of PostgreSQL that is being run on the server, and determines whether the version that is being run is the latest one. The program first checks if the user gives a parameter from the command line. If an argument is found, the program uses it as the name of the database to be connected to. If no argument is found, then the default dbname is postgre and the other connection parameters are filled by environment variables or defaults. Then it tries to connect to the database. If the connection fails, the program prints the error message and then exits. If the connection goes through, the program finds the version of PostgreSQL that the server is running on, and prints it out. It then checks to see if it is the latest version, and prints out the result. The program then exits with exit code 0.

To run this program, the user must have PostgreSQL installed as well libpq. Libpq is a set of library functions that allow client programs to pass queries to the PostgreSQL backend server and to receive the results of these queries.

Use these two commands to compile the program in the command line:

```
g++ -I/usr/local/Cellar/postgresql/9.6.1/include myDB.cpp -c -g -o
g++ -L/usr/local/lib  myDB.o -lpq -o myDB
```

You may need to change these file paths depending on where your postgresql package is located on your computer. Also you should also be running these commands in the directory where the project is installed.

Then type ./myDB with an argument name or leave it blank if you want to check the default postgre database.

Your output will display on the command line! Enjoy!