[Edit](http://maxiang.info/" \l "/?provider=evernote&guid=28d1b41d-6119-4b33-ab5d-9f78ed131b23&notebook=%E6%95%B0%E6%8D%AE%E5%BA%93)

**postgresql 基本用法**

数据库 postgresql

一： 安装Pgsql

$ wget https://ftp.postgresql.org/pub/source/v9.6.0/postgresql-9.6.0.tar.gz

$ ./configure --**with**-perl --enable-integer-datetimes --**with**-openssl --**with**-python --prefix=/usr/local/postgresql-9.6.0

$ ln -s /usr/local/postgresql-9.6.0 /usr/local/postgresql

然后在profile里增加环境变量

**export** PATH=/usr/**local**/postgresql/bin:/usr/**local**/python/bin:$PATH

LD\_LIBRARY\_PATH=/usr/**local**/pgsql/lib

**export** LD\_LIBRARY\_PATH

最后一个是用于shared libraries 不然就使用python import psycopg2 时会出现以下错误

libpq.so.5: cannot open shared object file: No such file or directory

在网上找到可以使用一种方法解决 <http://stackoverflow.com/questions/12781566/error-while-loading-shared-libraries-libpq-so-5-cannot-open-shared-object-file>

Try this:

1: Know the path of libpq.so.5

find / -name libpq.so.5

Output example: /usr/pgsql-9.4/lib/libpq.so.5 If found nothing, check if you have already installed the suitable postgresql-libs for your postgresql version and your OS platform

2: Symbolic link that library in a “well known” library path like /usr/lib:

ln -s /usr/pgsql-9.4/lib/libpq.so.5 /usr/lib/libpq.so.5

Attention: If your platform is 64 bit, you MUST also symbolic link to 64 bit libraries path:

ln -s /usr/pgsql-9.4/lib/libpq.so.5 /usr/lib64/libpq.so.5

3: Be happy !

但是看到官网的解决方法就是加到环境变量中去 <https://www.postgresql.org/docs/9.6/static/install-post.html>

二： 启动pgsql

因为pgsql不能使用root启动，所以需要新增加一个用户切过去启动

su - pgsql

initdb -D /data/pgsql/data

pg\_ctl -D /data/pgsql/data -l /data/pgsql/pgsql.log start

首先初始化，然后启动

创建数据库

createdb gsandow

进入数据库

psql gsandow

界面就变成了

gsandow=#

“#” 代表这是超级用户

创建用户

create user gsandow with password ‘wul28J4grQJk+Q’;

授权

grant all privileges on database gsandow to gsandow;

创建表

CREATE TABLE weather (

city varchar(80),

temp\_lo int, – low temperature

temp\_hi int, – high temperature

prcp real, – precipitation

date date

);

White space (i.e., spaces, tabs, and newlines) can be used freely in SQL commands. That means you can type the command aligned differently than above, or even all on one line. Two dashes (“–”) introduce comments. Whatever follows them is ignored up to the end of the line. SQL is case insensitive about key words and identifiers, except when identifiers are double-quoted to preserve the case (not done above).

PostgreSQL supports the standard SQL types int, smallint, real, double precision, char(N), varchar(N), date, time, timestamp, and interval,

%23%20postgresql%20%u57FA%u672C%u7528%u6CD5%0A@%28%u6570%u636E%u5E93%29%5Bpostgresql%5D%0A%0A%u4E00%uFF1A%20%u5B89%u88C5Pgsql%0A%60%60%60%0A%24%20wget%20https%3A//ftp.postgresql.org/pub/source/v9.6.0/postgresql-9.6.0.tar.gz%0A%24%20./configure%20--with-perl%20--enable-integer-datetimes%20--with-openssl%20--with-python%20%20--prefix%3D/usr/local/postgresql-9.6.0%0A%24%20ln%20-s%20/usr/local/postgresql-9.6.0%20/usr/local/postgresql%0A%60%60%60%0A%u7136%u540E%u5728profile%u91CC%u589E%u52A0%u73AF%u5883%u53D8%u91CF%0A%0A%60%60%60bash%0Aexport%20PATH%3D/usr/local/postgresql/bin%3A/usr/local/python/bin%3A%24PATH%0ALD\_LIBRARY\_PATH%3D/usr/local/pgsql/lib%0Aexport%20LD\_LIBRARY\_PATH%0A%60%60%60%0A%0A%u6700%u540E%u4E00%u4E2A%u662F%u7528%u4E8Eshared%20libraries%20%u4E0D%u7136%u5C31%u4F7F%u7528python%20%60import%20psycopg2%60%20%u65F6%u4F1A%u51FA%u73B0%u4EE5%u4E0B%u9519%u8BEF%0Alibpq.so.5%3A%20cannot%20open%20shared%20object%20file%3A%20No%20such%20file%20or%20directory%0A%u5728%u7F51%u4E0A%u627E%u5230%u53EF%u4EE5%u4F7F%u7528%u4E00%u79CD%u65B9%u6CD5%u89E3%u51B3%20http%3A//stackoverflow.com/questions/12781566/error-while-loading-shared-libraries-libpq-so-5-cannot-open-shared-object-file%0A%0ATry%20this%3A%0A%0A1%3A%20Know%20the%20path%20of%20libpq.so.5%0A%0Afind%20/%20-name%20libpq.so.5%0AOutput%20example%3A%20/usr/pgsql-9.4/lib/libpq.so.5%20If%20found%20nothing%2C%20check%20if%20you%20have%20already%20installed%20the%20suitable%20postgresql-libs%20for%20your%20postgresql%20version%20and%20your%20OS%20platform%0A%0A2%3A%20Symbolic%20link%20that%20library%20in%20a%20%22well%20known%22%20library%20path%20like%20/usr/lib%3A%0A%0Aln%20-s%20/usr/pgsql-9.4/lib/libpq.so.5%20/usr/lib/libpq.so.5%0AAttention%3A%20If%20your%20platform%20is%2064%20bit%2C%20you%20MUST%20also%20symbolic%20link%20to%2064%20bit%20libraries%20path%3A%0A%0Aln%20-s%20/usr/pgsql-9.4/lib/libpq.so.5%20/usr/lib64/libpq.so.5%0A3%3A%20Be%20happy%20%21%0A%0A%u4F46%u662F%u770B%u5230%u5B98%u7F51%u7684%u89E3%u51B3%u65B9%u6CD5%u5C31%u662F%u52A0%u5230%u73AF%u5883%u53D8%u91CF%u4E2D%u53BB%20https%3A//www.postgresql.org/docs/9.6/static/install-post.html%0A%0A%0A%u4E8C%uFF1A%20%u542F%u52A8pgsql%0A%u56E0%u4E3Apgsql%u4E0D%u80FD%u4F7F%u7528root%u542F%u52A8%uFF0C%u6240%u4EE5%u9700%u8981%u65B0%u589E%u52A0%u4E00%u4E2A%u7528%u6237%u5207%u8FC7%u53BB%u542F%u52A8%0A%0Asu%20-%20pgsql%0Ainitdb%20-D%20/data/pgsql/data%0Apg\_ctl%20-D%20/data/pgsql/data%20-l%20/data/pgsql/pgsql.log%20%20start%0A%0A%u9996%u5148%u521D%u59CB%u5316%uFF0C%u7136%u540E%u542F%u52A8%0A%0A%0A%u521B%u5EFA%u6570%u636E%u5E93%0Acreatedb%20gsandow%0A%0A%u8FDB%u5165%u6570%u636E%u5E93%0Apsql%20gsandow%0A%0A%u754C%u9762%u5C31%u53D8%u6210%u4E86%0A%0Agsandow%3D%23%0A%22%23%22%20%u4EE3%u8868%u8FD9%u662F%u8D85%u7EA7%u7528%u6237%0A%0A%u521B%u5EFA%u7528%u6237%0Acreate%20user%20gsandow%20with%20password%20%27wul28J4grQJk+Q%27%3B%20%0A%0A%u6388%u6743%0A%20grant%20all%20privileges%20on%20database%20%20gsandow%20to%20gsandow%3B%0A%0A%0A%u521B%u5EFA%u8868%0ACREATE%20TABLE%20weather%20%28%0A%20%20%20%20city%20%20%20%20%20%20%20%20%20%20%20%20varchar%2880%29%2C%0A%20%20%20%20temp\_lo%20%20%20%20%20%20%20%20%20int%2C%20%20%20%20%20%20%20%20%20%20%20--%20low%20temperature%0A%20%20%20%20temp\_hi%20%20%20%20%20%20%20%20%20int%2C%20%20%20%20%20%20%20%20%20%20%20--%20high%20temperature%0A%20%20%20%20prcp%20%20%20%20%20%20%20%20%20%20%20%20real%2C%20%20%20%20%20%20%20%20%20%20--%20precipitation%0A%20%20%20%20date%20%20%20%20%20%20%20%20%20%20%20%20date%0A%29%3B%0AWhite%20space%20%28i.e.%2C%20spaces%2C%20tabs%2C%20and%20newlines%29%20can%20be%20used%20freely%20in%20SQL%20commands.%20That%20means%20you%20can%20type%20the%20command%20aligned%20differently%20than%20above%2C%20or%20even%20all%20on%20one%20line.%20Two%20dashes%20%28%22--%22%29%20introduce%20comments.%20Whatever%20follows%20them%20is%20ignored%20up%20to%20the%20end%20of%20the%20line.%20SQL%20is%20case%20insensitive%20about%20key%20words%20and%20identifiers%2C%20except%20when%20identifiers%20are%20double-quoted%20to%20preserve%20the%20case%20%28not%20done%20above%29.%0APostgreSQL%20supports%20the%20standard%20SQL%20types%20int%2C%20smallint%2C%20real%2C%20double%20precision%2C%20char%28N%29%2C%20varchar%28N%29%2C%20date%2C%20time%2C%20timestamp%2C%20and%20interval%2C