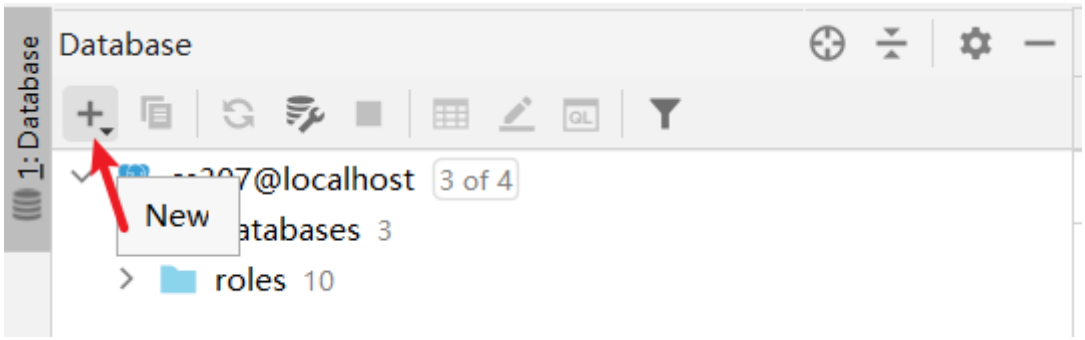
Software Installing

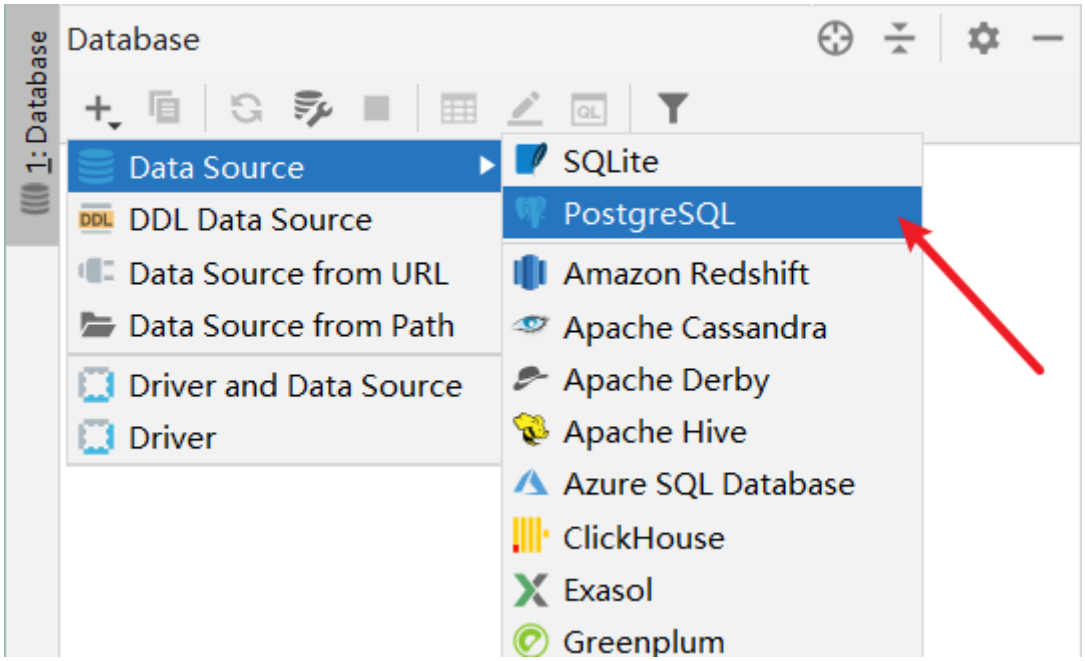
Experiment 1:

Create a database using data source PostgreSQL(Here use DataGrip as client).

Step1 :create a new database

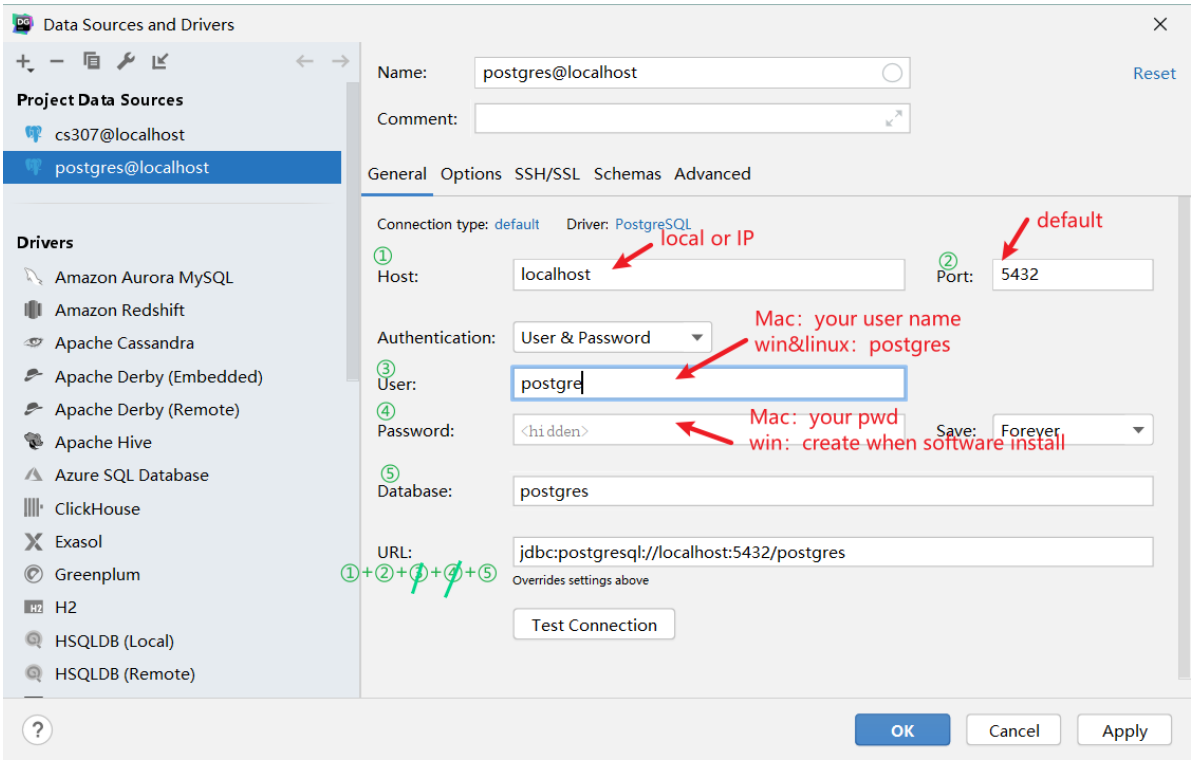


Step2:choose data source Postgres

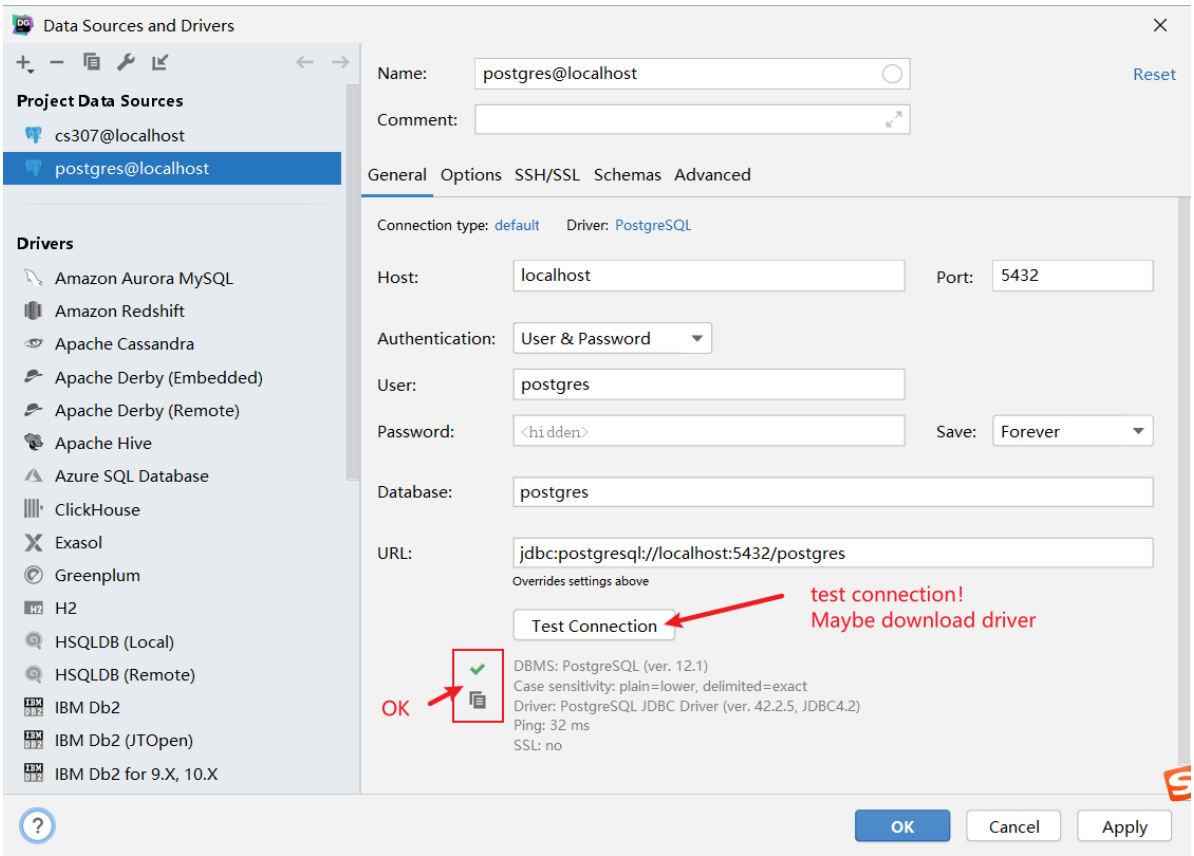


Step3: fill in host,port,user,password,database as following. Some of them should be default mode. Notice your Operating System, there will be little difference.

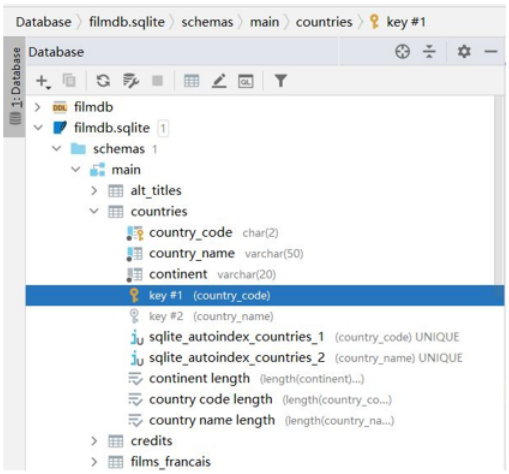
Tips: Here URL contain all information of host,port,user,password,database.

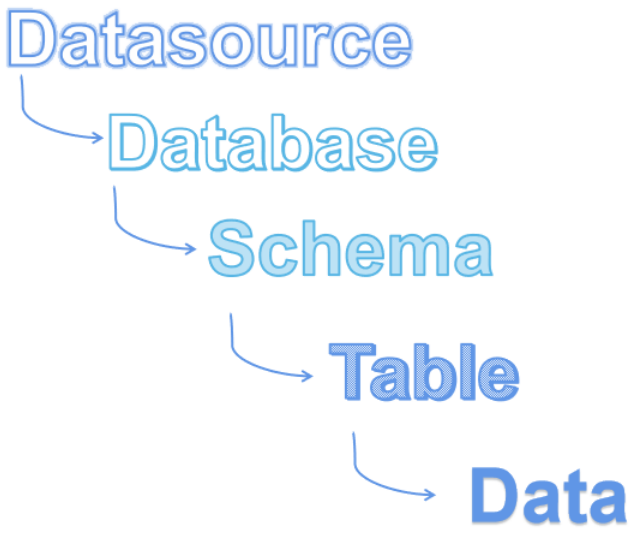


Step4: press 'Test Connection' button, maybe extra driver should be download.



Datasource Database Schema Table

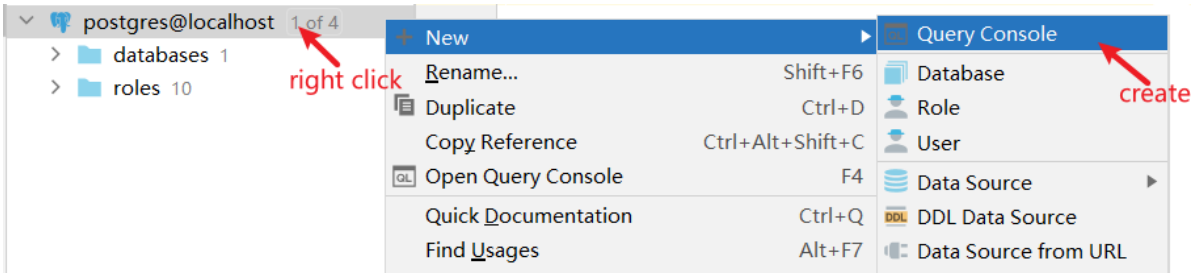




Experiment 2:

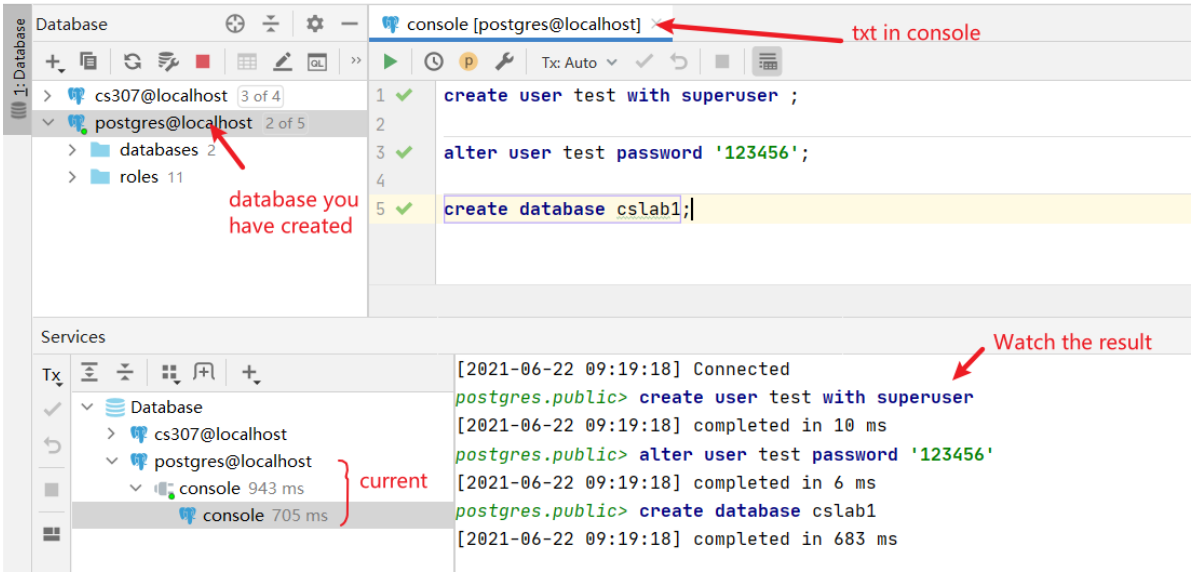
Create a superuser, change your password and create a new database.

Step1:create a new Query Console



Step2: text following language in console, and execute. Watch the result in window.

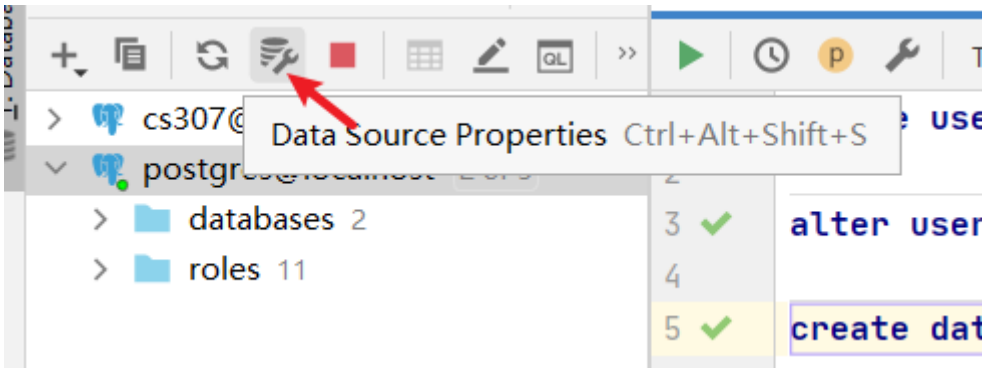
```
create user test with superuser ;

alter user test password '123456';

create database cslab1;
```



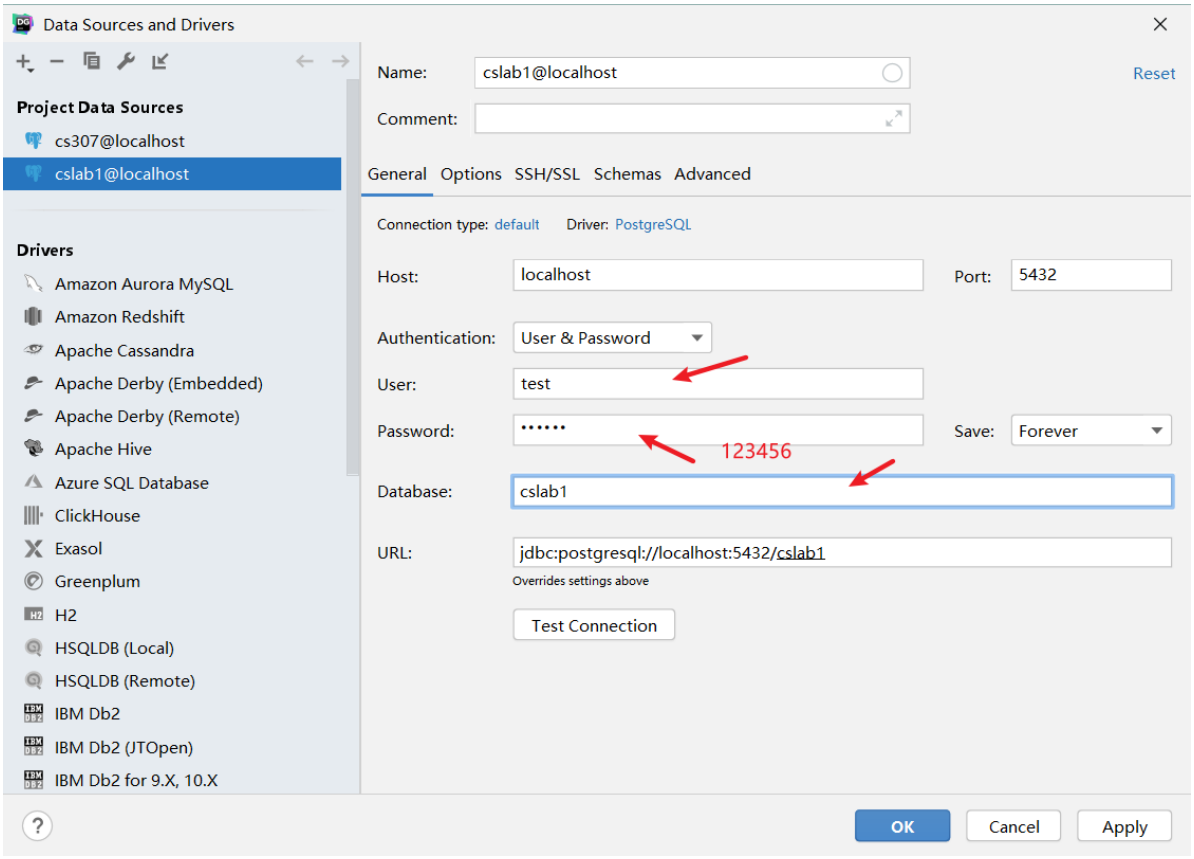
Experiment 3:

Visit the database you have created in Experiment 2 with new superuser and new password.

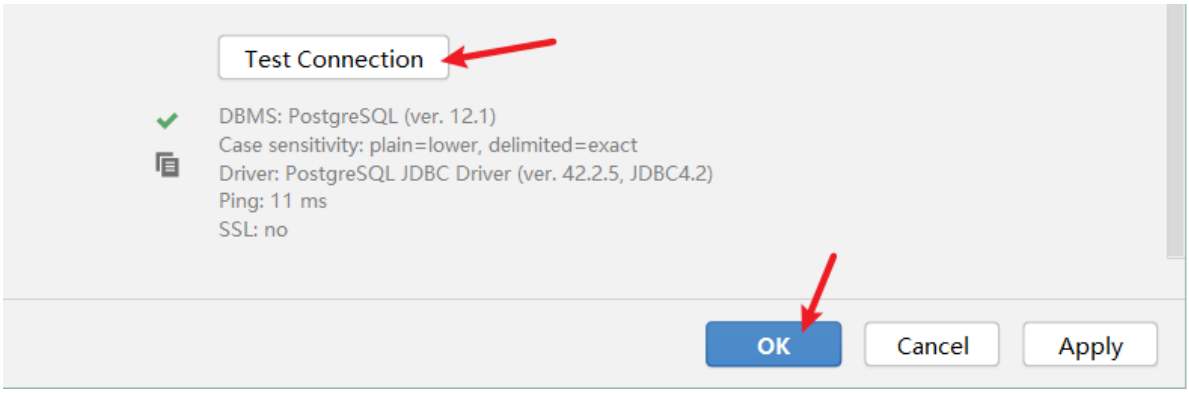
Step1:open data source properties to edit new properties.



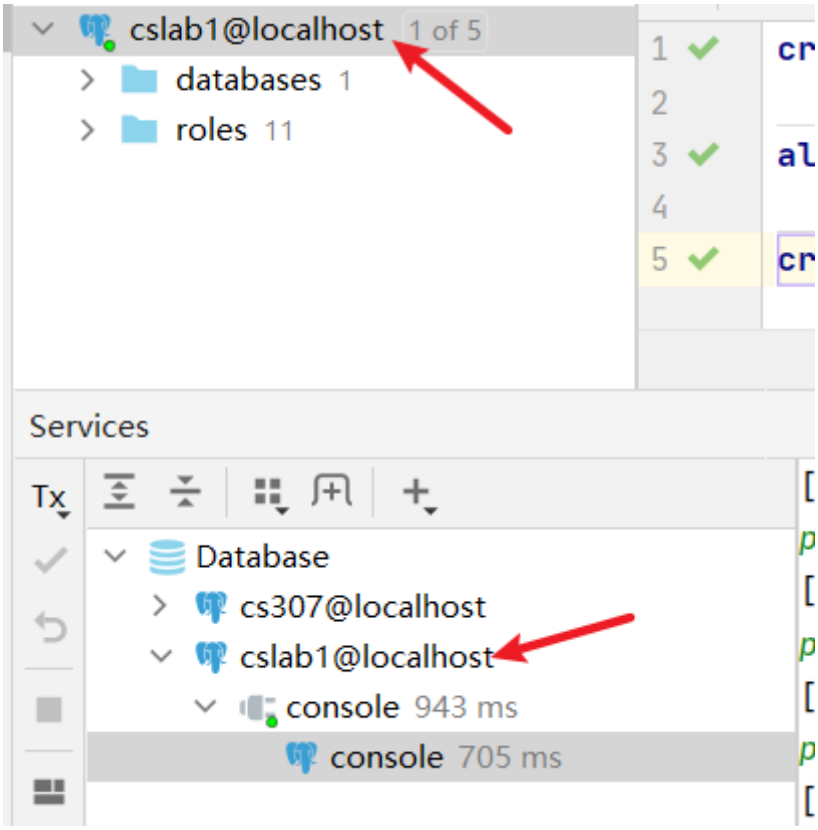
Step2: fill in user, password, database you have created in step 2 in experiment 2.



Step3: test connection again and press OK button.



Step6: you can see the current database connected has changed.



Experiment 4: Test some data definition language(DDL), drop, create, alter.

Step1: you can test following language, execute and watch the result.

```
create schema schema1;

create table lab1(
    name varchar(30),
    sid numeric
);
```

Step2: insert a record(a row of data)

```
insert into lab1(name, sid) values ('zhangsan',00001);
```

Step3: all an attribute(a column of data)

```
alter table lab1 add column score integer;
```

Step4: Delete a table

```
drop table lab1;
```

Step4: Delete a schema

```
drop schema schema1;
```

Step5: show your query path

```
show search_path ;
```