

# Connecting to PostgreSQL

## Quick Start Details

**Hostname:** `dbase.dsa.missouri.edu`

**Database Name:** `dsa_student`

**Credentials:** MU SSO credentials

Connect Example from server: `jupyterhub.dsa.missouri.edu`

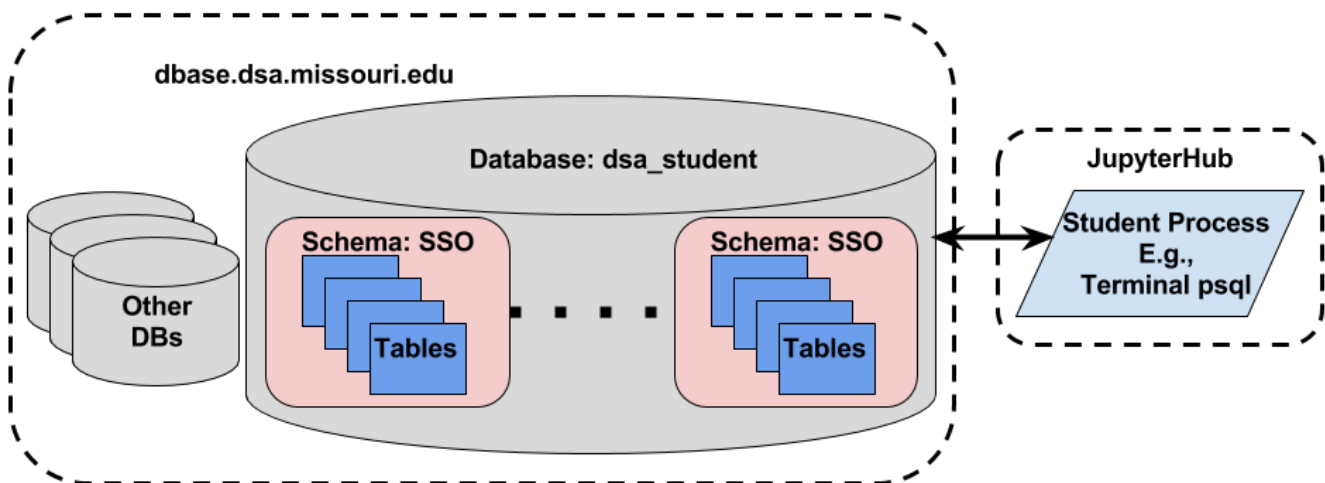
```
$ psql -h dbase.dsa.missouri.edu cs_student
Password:
psql (9.5.8)
Type "help" for help.

cs_student=#
```

## PostgreSQL Database Cluster:

The PostgreSQL database cluster includes a database named “dsa\_student”.

In that database, students each have a “schema” which is a namespace for them to create objects.



Students will interact with the database using command line client (psql) or scripts and programming code. Currently, the dbase server is only accessible from `jupyterhub.dsa.missouri.edu`.

## Additional Method: Direct SSH using special port 8022

```
ssh -p 8022 jupyterhub.dsa.missouri.edu
```

Then use the **psql** command as shown at top of the page.

## Basic PostgreSQL Commands

0. Command help:

```
\?
```

1. Setting Search Path (substitute your SSO for the characters SSO):

```
set search_path to SSO, public;
```

2. See your tables

```
\dt
```

3. Describe a table: e.g., my\_table

```
\d my_table
```

4. List tables in a particular schema, e.g., public or your SSO

```
\dt public.*
```

```
\dt SSO.*
```

5. Access database resources with fully qualified name, e.g. public.test\_table

```
cs_student=> select * from public.test_table;
 id |      t
----+-----
  1 | Hello DBMS
(1 row)
```