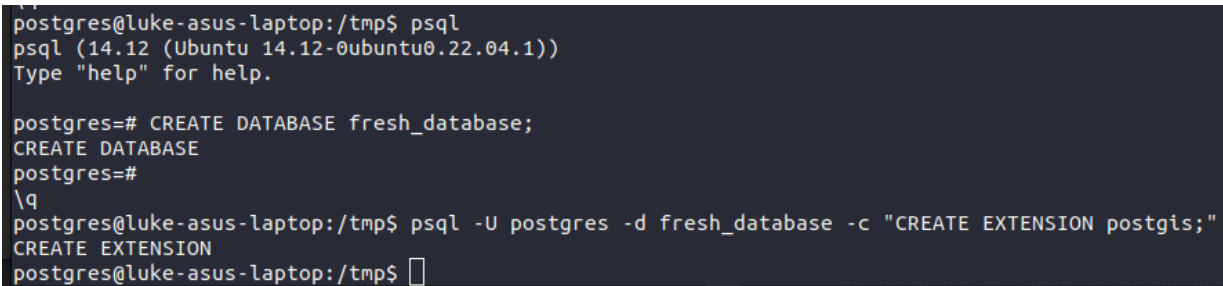


Postgres WA Geochemistry Database Restoration via PSQL

Restore on a clean database

1. Make a fresh database to test the restore with, ensure postgis is enabled

```
postgres=# CREATE DATABASE fresh_database;
CREATE DATABASE
postgres=#
\q
postgres@xxx:/tmp$ psql -U postgres -d fresh_database -c "CREATE EXTENSION postgis;"
```



```
postgres@luke-asus-laptop:/tmp$ psql
psql (14.12 (Ubuntu 14.12-0ubuntu0.22.04.1))
Type "help" for help.

postgres=# CREATE DATABASE fresh_database;
CREATE DATABASE
postgres=#
\q
postgres@luke-asus-laptop:/tmp$ psql -U postgres -d fresh_database -c "CREATE EXTENSION postgis;"
CREATE EXTENSION
postgres@luke-asus-laptop:/tmp$
```

2. Run the command to restore the database, setting the backup file name accordingly:

```
postgres@xxx:/tmp$ psql -d fresh_database -U postgres -f "GSWA_MmmYYYY_Backup.sql"
```


The table data starts to come into postgres after the COPY commands:

The screenshot shows a PostgreSQL client interface. On the left is a tree view of the database structure, including 'fresh_database' and 'public' schema. The 'public' schema contains 11 tables, with 'gswa_dh_assay' highlighted. The main window shows a query history with the following SQL query:

```
1 SELECT * FROM public.gswa_dh_assay
2 LIMIT 100
3
```

Below the query history is a 'Data Output' window displaying a table with 15 rows of data. The table has the following columns and data:

ogc_fid	dhassayid	id	dhgeochemid	companyholeid	companysampleid
integer	numeric (19)	numeric (19)	numeric (10)	character varying (300)	character varying (300)
1	2399566642	146576201	5531422	MSD4	MSD4_017
2	2399567986	146576201	5531422	MSD4	MSD4_017
3	2399567047	146576201	5531422	MSD4	MSD4_017
4	2399567090	146576201	5531422	MSD4	MSD4_017
5	2399569031	146576201	5531422	MSD4	MSD4_017
6	2399568370	146576201	5531422	MSD4	MSD4_017
7	2399568391	146576201	5531422	MSD4	MSD4_017
8	2399567282	146576201	5531422	MSD4	MSD4_017
9	2399567346	146576201	5531422	MSD4	MSD4_017
10	2399567367	146576201	5531422	MSD4	MSD4_017
11	2399568690	146576201	5531422	MSD4	MSD4_017
12	2399566641	146576202	5531422	MSD4	MSD4_018
13	2399567089	146576202	5531422	MSD4	MSD4_018
14	2399569032	146576202	5531422	MSD4	MSD4_018
15	2399567240	146576202	5531422	MSD4	MSD4_018

Notes

The example above relates to the full Postgres database backup. The same instructions apply for a restore of the 'Full Flat Pivot' dataset too, changing the database and file names as required.

The command "CREATE SCHEMA public;" will error if public schema already exists - as seen in the screenshot of the restore. This schema is created by default when you make a database. The execution as seen in the screenshot continues regardless of the error and results in a fully formed database.