

Backup and Restore pointdatapresets Table to Hydro DB

Reference: <http://www.postgresql.org/docs/9.4/static/sql-copy.html>

COPY TO copies the contents of a table to a file.
COPY TO can also copy the results of a SELECT query.

COPY FROM copies data from a file to a table (appending the data to whatever is in the table already).

On successful completion, a COPY command returns a command tag of the form
COPY count (i.e., number of lines)

EXAMPLES:

The following example copies a table to the client using the vertical bar (|) as the field delimiter:

```
COPY country TO STDOUT (DELIMITER '|');
```

To copy data from a file into the country table:

```
COPY country FROM '/usr1/proj/bray/sql/country_data';
```

To copy into a file just the countries whose names start with 'A':

```
COPY (SELECT * FROM country WHERE country_name LIKE 'A%') TO  
'/usr1/proj/bray/sql/a_list_countries.copy';
```

To copy into a compressed file, you can pipe the output through an external compression program:

```
COPY country TO PROGRAM 'gzip > /usr1/proj/bray/sql/country_data.gz';
```

The following worked successfully on a NWS Training Center AWIPS-2 system.
The steps were verified by Mark Armstrong of [WFO Support](#).

1. Open a terminal window
2. Select a DIR to copy the data from the table to and make sure that directory is NFS-mounted (shows NAS1 when you cd there and do a 'df .')
3. cd /home/dcokely/WHFS
4. touch pointdatapresets_data (this needs to be a new file or else the command below will just append it to the end of an existinng file. If you had an original one, rename it with a date in the name to indicate the date you renamed it (and created the new file).

5. `ls -al` (verify the file exists...it is 0 bytes in size)
6. `chmod 664 pointdatapresets_data` (to make sure group has write permission)
7. `ls -al` (verify the chmod worked OK)
8. in another terminal window, start `psql` `psql hd_ob92eax`
9. copy pointdatapresets to '/home/dcokely/WHFS/pointdatapresets_data' (delimiter '|');
COPY 6 (response if type correctly - I have 6 presets)

Back in regular terminal window in ~WHFS dir...

10. `ls -al` (to make sure the file has data in it... size > 0)
11. `cat pointdatapresets_data` (verify the file exists, with the | delimiters as it had originally - note - there will not be extra spaces)

In psql window...

12. `DELETE from pointdatapresets;`
DELETE 6 (deleted all Presets from the DB)
13. `select * from pointdatapresets;`
0 rows (verify table is empty)
14. copy pointdatapresets from '/home/dcokely/WHFS/pointdatapresets_data' (delimiter '|');
COPY 6 (copied 6 rows from file back into the table)
15. `select * from pointdatapresets;`
All 6 rows should show up again.
16. Verify they work as expected in PDC GUI and that Hydro perspective populates with the Preset ranked #1.