

Lab 3 Report Images:

First I logged into my designated lab machine - wch 133-38.

Next I copied over my needed files to the /tmp folder once again.

Then I ran source ./startPostgreSQL.sh inside the /tmp folder

Next I ran source ./createPostgreDB.sh

Next I ran the database with my first script for the first ER Diagram with:

psql -h localhost -p \$PGPORT \$USER"_DB" < lab3part1.sql

```
/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < lab3part1.sql
NOTICE: drop cascades to 5 other objects
DETAIL: drop cascades to constraint project_manage_fkey on table project
drop cascades to constraint dept_runs_fkey on table dept
drop cascades to constraint work_in_ssn_fkey on table work_in
drop cascades to constraint work_dept_ssn_fkey on table work_dept
drop cascades to constraint work_proj_supervise_fkey on table work_proj
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint work_in_pno_fkey on table work_in
drop cascades to constraint work_proj_pno_fkey on table work_proj
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint graduate_major_fkey on table graduate
drop cascades to constraint work_dept_dno_fkey on table work_dept
DROP TABLE
NOTICE: drop cascades to constraint work_proj_ssn_fkey on table work_proj
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "professor_pkey" for table "professor"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "project_pkey" for table "project"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "dept_pkey" for table "dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "graduate_pkey" for table "graduate"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_in_pkey" for table "work_in"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_dept_pkey" for table "work_dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_proj_pkey" for table "work_proj"
CREATE TABLE
/tmp
asher011@wch133-38 $
```

Next I ran the database with my second script for the second ER Diagram with:
psql -h localhost -p \$PGPORT \$USER"_DB" < lab3part2.sql

```
/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < lab3part2.sql
NOTICE: drop cascades to 4 other objects
DETAIL: drop cascades to constraint album_producer_fkey on table album
drop cascades to constraint plays_ssn_fkey on table plays
drop cascades to constraint perform_ssn_fkey on table perform
drop cascades to constraint lives_ssn_fkey on table lives
DROP TABLE
NOTICE: drop cascades to constraint songs_appears_fkey on table songs
DROP TABLE
NOTICE: drop cascades to constraint plays_instrid_fkey on table plays
DROP TABLE
NOTICE: drop cascades to constraint perform_songid_fkey on table perform
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint telephone_home_fkey on table telephone
drop cascades to constraint lives_address_fkey on table lives
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "musicians_pkey" for table "musicians"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "album_pkey" for table "album"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "instrument_pkey" for table "instrument"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "songs_pkey" for table "songs"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "place_pkey" for table "place"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "telephone_pkey" for table "telephone"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "plays_pkey" for table "plays"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "perform_pkey" for table "perform"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "lives_pkey" for table "lives"
CREATE TABLE
/tmp
asher011@wch133-38 $
```

Finally, I ran the database with my script that contains all my sql instructions for both questions:
psql -h localhost -p \$PGPORT \$USER"_DB" < lab3all.sql
See the combined output below...

```

/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < lab3all.sql
NOTICE: drop cascades to 5 other objects
DETAIL: drop cascades to constraint project_manage_fkey on table project
drop cascades to constraint dept_runs_fkey on table dept
drop cascades to constraint work_in_ssn_fkey on table work_in
drop cascades to constraint work_dept_ssn_fkey on table work_dept
drop cascades to constraint work_proj_supervise_fkey on table work_proj
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint work_in_pno_fkey on table work_in
drop cascades to constraint work_proj_pno_fkey on table work_proj
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint graduate_major_fkey on table graduate
drop cascades to constraint work_dept_dno_fkey on table work_dept
DROP TABLE
NOTICE: drop cascades to constraint work_proj_ssn_fkey on table work_proj
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "professor_pkey" for table "professor"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "project_pkey" for table "project"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "dept_pkey" for table "dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "graduate_pkey" for table "graduate"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_in_pkey" for table "work_in"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_dept_pkey" for table "work_dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_proj_pkey" for table "work_proj"
CREATE TABLE
NOTICE: drop cascades to 4 other objects
DETAIL: drop cascades to constraint album_producer_fkey on table album
drop cascades to constraint plays_ssn_fkey on table plays
drop cascades to constraint perform_ssn_fkey on table perform
drop cascades to constraint lives_ssn_fkey on table lives
DROP TABLE
NOTICE: drop cascades to constraint songs_appears_fkey on table songs
NOTICE: drop cascades to constraint songs_appears_fkey on table songs
DROP TABLE
NOTICE: drop cascades to constraint plays_instrid_fkey on table plays
DROP TABLE
NOTICE: drop cascades to constraint perform_songid_fkey on table perform
DROP TABLE
NOTICE: drop cascades to 2 other objects
DETAIL: drop cascades to constraint telephone_home_fkey on table telephone
drop cascades to constraint lives_address_fkey on table lives
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
DROP TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "musicians_pkey" for table "musicians"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "album_pkey" for table "album"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "instrument_pkey" for table "instrument"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "songs_pkey" for table "songs"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "place_pkey" for table "place"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "telephone_pkey" for table "telephone"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "plays_pkey" for table "plays"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "perform_pkey" for table "perform"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "lives_pkey" for table "lives"
CREATE TABLE
/tmp
asher011@wch133-38 $

```

This lab3all.sql is the script I will submit in elearn along with this report.

I then ran source ./stopPostgreSQL.sh to shut down the database.

Note that for each image above, the image I took is after running the script a second time. At the top of each image, the tables from the previous run are deleted with cascade. Below is an example of a first run where tables are created for the first time

```
/tmp
asher011@wch133-38 $ psql -h localhost -p $PGPORT $USER"_DB" < lab3all.sql
NOTICE: table "professor" does not exist, skipping
DROP TABLE
NOTICE: table "project" does not exist, skipping
DROP TABLE
NOTICE: table "dept" does not exist, skipping
DROP TABLE
NOTICE: table "graduate" does not exist, skipping
DROP TABLE
NOTICE: table "work_in" does not exist, skipping
DROP TABLE
NOTICE: table "work_dept" does not exist, skipping
DROP TABLE
NOTICE: table "work_proj" does not exist, skipping
DROP TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "professor_pkey" for table "professor"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "project_pkey" for table "project"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "dept_pkey" for table "dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "graduate_pkey" for table "graduate"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_in_pkey" for table "work_in"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_dept_pkey" for table "work_dept"
CREATE TABLE
NOTICE: CREATE TABLE / PRIMARY KEY will create implicit index "work_proj_pkey" for table "work_proj"
CREATE TABLE
```